

PROJECT REPORT

ON

SpurStartUp

FOR

Synerzip Softech India Pvt. Ltd.

BY

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MASTER IN COMPUTER APPLICATION
MAHARASHTRA EDUCATION SOCIETY'S
INSTITUTE OF MANAGEMENT AND CAREER COURSES
(IMCC), PUNE-411038
2016-17**



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Date : 05/4/17

CERTIFICATE

is is to certify that the Project Report entitled "*SpurStartUp*" is prepared by *Shreyas*
ngund a student of *M.C.A.* Course for the Academic Year 2016-17 at M.E.Society's Institute
Management & Career Courses (IMCC), Pune - 411038. M.C.A Course is affiliated to
Savitribai Phule Pune University.

to the best of our knowledge, this is original study done by the said student and important
sources used by him/her have been duly acknowledged in this report.

he report is submitted in partial fulfillment of *M.C.A* Course for the Academic Year 2016-17
per the rules & prescribed guidelines of Savitribai Phule Pune University.

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Internal Examiner

Date: March 24, 2017

To Whomsoever It May Concern

This is to certify that **Mr. Shreyas Nargund**, MCA Final Year student from IMCC, Pune has successfully completed project work in our company on the "SpurStartUp" using PHP, AngularJS, Javascript, jQuery and Bootstrap under the guidance of **Mr. Vitthal Kudal (Project Manager, Synerzip)**.

As a part of Non-Disclosure Agreement between an employee and the company, no individual is allowed to represent and share the source code, executables and any confidential information regarding project beyond organization premises.

For Synerzip Softech India Pvt. Ltd.



Nidhi Shrikhande
Sr. HR Manager

CERTIFICATE

This is to certify that **Shreyas Nargund** has completed the project work entitled "**SpurStartUp**" under my guidance. The report is submitted in partial fulfillment of M.C.A. Course for the Academic Year 2016-2017 as per the rules & prescribed guidelines of Savitribai Phule Pune University.

His/Her work is found to be satisfactory and complete in all respects.

Manasi Shirurkar
(Internal Project Guide)

Acknowledgment

I present with pride and pleasure the project report on “SpurStartUp” aimed to the supplement attachment has required under the regulation of the Savitribai Phule Pune University. I would like to wish sincere gratitude to Mr. Ashutosh Kumar, Director of Engineering , Mr. Vitthal Kudal , Project Manager Synerzip Softech India Private Limited who have helped in making this project. Words are inadequate to express the feelings of infinite gratitude’s to him, but for my gratification I have this acknowledgment. I am highly indebted to the project guide Prof. Manasi Shirurkar, Assistant Professor, I.M.C.C. And Mr. Abhijeet Joshi for their guidance and constant inspection in each and every stage of project without which project work would not have taken this shape and form. I wish to offer most sincere thanks to Dr. Santosh Deshpande, HOD, Computer Department, IMCC for encouraging and providing with all the facilities. I wish to offer sincere thanks to Dr. Manasi Bhate, TPH for providing the necessary co-operation. Particular thanks to Dr. Vikas H. Inamdar, Director I.M.C.C. who allotted us with enough

time for the project. Finally, I am extremely thankful to teaching and non-teaching staff for their kind and whole co-operation.

Shreyas U. Nargund

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CHAPTER 1

INTRODUCTION

1.1 Company Profile

Synerzip Softech India Private Limited

Synerzip is a service based company that offers in-depth expertise in Agile software product development to venture funded small/mid-sized software companies focused on social media, mobile, big data analytics, cloud and enterprise software.

Synerzip helps client to scale their engineering capacity and accelerate their roadmap, and become their long-term partner and trusted advisor. Synerzip is about Agile Software Product Development. Synerzip is headquartered in the United States. The US-based architects and product managers work on-site with clients domestically and work directly with the company's software development team in Pune, India. Synerzip works as a co-development partner for venture-backed software companies in their growth phase. Following Agile practices, Synerzip seamlessly dovetails with each client's engineering team, helping them scale up in a flexible, capital-efficient and frictionless manner. For each client, Synerzip creates a software team that is

tailored for them – with required skill mix, including mobile, cloud, big-data analytics and enterprise software.

Synerzip was founded in 2004 and is headquartered in Dallas. The company has presence in Texas and the San Francisco Bay Area as well as a development center in Pune, India.

Synerzip has served more than 100 clients.

Synerzip Named to Top 100 Tech Companies Founded and Managed by Indians in the U.S. by SiliconIndia.

Synerzip is a trusted outsourcing partner for Agile software product development. Synerzip helps clients accelerate the delivery of the product roadmap and fills technology skill gaps. We save customers at least 50% with our offshore software development and have U.S.-based local architects and product managers located on-site.

Synerzip has served more than 100 clients. Clients include companies backed by leading investors, such as Tangoe (Sevin Rosen, now public), Credant (Austin Ventures, now acquired by

Dell), PeopleAdmin (Vista Equity), Quickoffice (Mayfield, now acquired by Google), iTKO (Covera Ventures, now acquired by CA), ExamSoft (Spectrum Equity), Studer Group (JMI Equity, now acquired by Huron Consulting), Clockwork Solutions (Teakwood Capital), CloudOn (Rembrandt Venture, Translink Capital and Foundation Capital, acquired by Dropbox), Kinnser (Insight Venture Partners), DrillingInfo (Insight Venture Partners), and SnapLogic (Andreessen Horowitz).

1.2 Existing System and Need for System

Proposed system is an assembly of interrelated sub-systems which are **a crowdfunding portal** , a **learning management system henceforth referred as LMS** and **a business forum**.

Crowdfunding is the practice of funding a project or a venture by raising money from a large number of people who each contribute a relatively small amount, typically via the Internet.

Crowdfunding is a way of raising finance by asking a large number of people each for a small amount of money. Until recently, financing a business, project or venture involved asking a few people for large sums of money. Crowdfunding switches this idea around, using the internet to talk to thousands – if not millions – of potential funders. Typically, those seeking funds will set up a profile of their project on a website. They can then use social media, alongside traditional networks of friends, family and work acquaintances, to raise money. There are three different types of crowdfunding: donation, debt and equity.

Donation / Reward crowdfunding

People invest simply because they believe in the cause. Rewards can be offered (often called reward crowdfunding), such as acknowledgements on an album cover, tickets to an event, regular news updates, free gifts and so on. Returns are considered intangible. Donors have a social or personal motivation for putting their money in and expect nothing back, except perhaps to feel good about helping the project.

Debt crowdfunding

Investors receive their money back with interest. Also called peer-to-peer (p2p) lending, it allows for the lending of money while bypassing traditional banks. Returns are financial, but investors also have the benefit of having contributed to the success of an idea they believe in. In the case of microfinance, where very small sums of money are lent to the very poor, most often in developing countries, no interest is paid on the loan and the lender is rewarded by doing social good.

Equity crowdfunding

People invest in an opportunity in exchange for equity. Money is exchanged for a shares, or a small stake in the business, project or venture. As with other types of shares, apart from community shares, if it is successful the value goes up. If not, the value goes down.

Proposed system also comprises of a Learning Management System. A **learning management system (LMS)** is a software application for the administration, documentation, tracking, reporting and delivery of electronic educational technology (also called **e-learning**) courses or training programs.

The key to understanding the difference between LMS and other computer education terms is to understand the systemic nature of LMS. LMS is the framework that handles all aspects of the learning process. An LMS is the infrastructure that delivers and manages instructional content, identifies and assesses individual and organizational learning or training goals, tracks the progress towards meeting those goals, and collects and presents data for supervising the learning process of the organization as a whole. A

learning management system delivers content but also handles registering for courses, course administration, skills gap analysis, tracking, and reporting.

LMS enables users to engage in various courses of their choice via internet. User can enroll for a course and learn the content of the course with actually being physically present at the location. LMS allows users to have one to one interaction with the course instructors / mentors.

Another component of the proposed system is a Business forum. It is a platform where users can come together and socialize / interact with other users of the system. It is a very useful platform which enables users of the system to share their views, ideas, opinions, concerns regarding different matters of business management domain. It also helps users to advertise their campaigns, gain social contacts or connections which could potentially help them in getting funded for their campaigns. Authors on the business forum can share number of articles related to business management world which would help users to stay up to date with business management domain.

1.3 Scope of the System

The proposed system is divided into 3 components – a crowdfunding portal, a LMS portal and a business community forum which allows users to interact and socialize with the community.

1) Crowdfunding Portal :-

Crowdfunding portal aims to facilitate users with functionality that will allow users to showcase their ideas with a concrete business plan.

Crowdfunding will have mainly two types of users – admins and the subscribers.

Crowdfunding System's Scope is as follows:

- Admin User :-
 - Reports – Various reports that puts emphasis on the various statistics and the behavioural patterns of the user and other components of the system.

- Manage Users – As an admin user will be able to perform create , update delete user accounts.
- Manage Campaigns – As an admin user will be able to create,update,delete campaigns created by the other subscribers.
- Review Campaigns – Admin should be able to review and then approve / deny / suggest modifications to the campaigns created by the subscribers
- Manage Portal Settings – Admin can manage portal settings such as the SpurStartUp's fee in the crowdfunding donations , default email address for the website's contact address
- Export Reports to CSV file – Reports shown in the admin dashboard can be exported to the CSV file.

- Campaign Category Management – Admin can create , update , delete campaign categories.
- Monitor Donation Transactions - Admin can view all the donations made to a specific campaign to avoid any mishapps.
- Google Analytics (View how many users have visited website and what page particularly) – Admin needs to set the google analytics api key and the account key to record the google analytics data.
- Mailchimp integration for automated mail kickback mails – It's a third party application used to send bulk emails to the users of the system , as an admin user can configure the settings through the admin dashboard.

- Subscriber User :-
 - Edit Profile – User can edit his own profile.
 - Start Campaign – User start create a campaign which will be approved by admin.
 - Edit Campaign – User can edit his own campaign, once edited campaign will be resubmitted for approval to the admin.
 - Preview Campaign before submitting for review – A WYSIWYG view for the users to get an idea of what their campaign will look like once approved.
 - View Campaigns – Users can view campaigns submitted by other user along with the various filters of following categories
 - Name of campaign
 - Name of campaign owner
 - Geographical location

- Category
- Date
- Send IM / View IM – View Inbox –
Users can send Instant Messages to the other users of the system which are stored in their respective inboxes.
- Donate – User can donate an amount of their choice to the campaigns submitted by other users.
- Manage Payment Settings – User can add edit delete save list of credit / debit cards to their accounts to make donation process smoother.
- My Contributions - User can view and can track the status of all the donation they have done so far.
- Google Analytics – Configure google analytics account settings that will allow users to view how many users have visited their campaign.

2) Learning Management system (LMS) :-

Learning management system aim to facilitate users with the functionality that will allow users to gain more knowledge through the means of online courses mentor sessions and formal as well as informal assessments.LMS has three types of users namely admins , mentors/instructors , students/users/subscribers.Scope of LMS according to functionality of the individual user type is as follows:

- Admin
 - Create Course – Create Update
Delete Courses for students
 - Assign instructor / mentor –
Assign one or more mentors to a
course.
 - Decide course fee
 - Send Invites – Send invites to
users of the system for a particular

course. Also share the course information on social media.

- Mentor
 - Create / Upload / Edit Course Content
- User / Student
 - Search Courses –by name, category, mentor
 - View Courses
 - Enroll Course

3) Business Forum :-

Its a platform for all the users of the SpurStartUp where they can interact with each other in a social manner and share their views with other users.

- 1) Blog Post CRUD
- 2) Activity Feed
 - a. Personal Activity
 - b. Friends Activity
 - c. Group Activity

- d. Sitewide Activity
- e. Like Bookmark Share Comment Functionality
- 3) Polls
 - a. Multiple Choice
 - b. Percentage
 - c. Hot n Cold
- 4) Question
 - a. User questions
 - b. Mentor questions
- 5) Mentor Sessions
 - a. Questions
 - b. Discussions threads
 - c. Article sharing
- 6) Groups
 - a. Group CRUD (Admin Only)
 - b. Invites (Depends on group setting)
 - c. Group Project
 - i. Create Project
 - 1. Decide Goals
 - 2. Assume roles and responsibilities

3. Breakdown Tasks

4. Assign Tasks

ii. Task Followup

iii. Monitor Project Progress

7) Drive

a. Upload / Create / Edit / Download Documents

b. Share with friends , groups , projects ,site-wide

1.4 **Operating Environment**

Minimum Hardware Requirements

- Processor - Intel x86 Architecture 3GHz processor or equivalent
- RAM - 2 GB RAM
- Hard Disk - 40GB

Software Requirements

- Operating System - Windows XP, Windows 7, Windows Server 2003, Windows Server 2008, Linux
- distributions such as Ubuntu, Fedora, Redhat.
- Apache Version - Apache 2.2
- MySQL Version - 5.1.36
- PHP Version - 5.6.5, Ubuntu 16.4
- AngularJs Version 1.0
- Bootstrap Framework
- Browser - Firefox, Google Chrome, Safari
- Wordpress 4.7.0 or higher

*Note: JavaScript should be enabled in all the browsers

Web Server Packages -LAMP stack with XAMP/WAMP

*Note: If PHP, MySQL & Apache are manually configured, web server packages are not required.

1.5 Detail Description of Technology Used

- **Php**

PHP is a server-side scripting language designed primarily for web development but also used as a general-purpose programming language. PHP originally stood for Personal Home Page, but it now stands for the recursive acronym PHP: Hypertext Preprocessor.

PHP code may be embedded into HTML or HTML5 code, or it can be used in combination with various web template systems, web content management systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a Common Gateway Interface (CGI) executable. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a command-line interface (CLI) and can be used to implement standalone graphical applications.

The standard PHP interpreter, powered by the Zend Engine, is free software released under the PHP License. PHP has been widely ported and can be deployed on most web servers on almost every operating system and platform, free of charge.

Advantages of using PHP :

- **Open source:** It is developed and maintained by a large group of PHP developers, this will help in creating a support community, abundant extension library.
- **Speed:** It is relatively fast since it uses much system resource.
- **Powerful library support:** You can easily find functional modules you need such as PDF, Graph etc.
- **Built-in database connection modules:** You can connect to database easily using PHP, since many websites are data/content driven, so we will use database frequently, this will largely reduce the development time of web apps.

- **AngularJS**

AngularJS is a JavaScript-based open-source front-end web application framework mainly maintained by Google and by a community of individuals and corporations to address many of the challenges encountered in developing single-page applications. It aims to simplify both the development and the testing of such applications by providing a framework for client-side model-view-controller (MVC) and model-view-viewmodel (MVVM) architectures, along with components commonly used in rich Internet applications. The AngularJS framework works by first reading the HTML page, which has embedded into it additional custom tag attributes. Angular interprets those attributes as directives to bind input or output parts of the page to a model that is represented by standard JavaScript variables. The values of those JavaScript variables can be manually set within the code, or retrieved from static or dynamic JSON resources.

- Advantages of AngularJS
 - It provides structure to JavaScript Using jQuery .
 - jQuery does have some templating, but each JavaScript library has that built into it by nature.
 - Two-way data-binding
While you can write a simple two-way data-binding event in jQuery, JavaScript MVC libraries provide a more declarative (using HTML) way of connecting models to your view.
 - Great for SPA (Single-Page Applications)

- **HTML 5**

HTML5 is a markup language used for structuring and presenting content on the World Wide Web. It is the fifth and current version of the HTML standard.

It was published in October 2014 by the World Wide Web Consortium (W3C) to improve the language with support for the latest multimedia, while keeping it both easily readable by humans and consistently understood by computers and devices such as web browsers, parsers, etc. HTML5 is intended to subsume not only HTML 4, but also XHTML 1 and DOM Level 2 HTML.

HTML5 includes detailed processing models to encourage more interoperable implementations; it extends, improves and rationalizes the markup available for documents, and introduces markup and application programming interfaces (APIs) for complex web applications. For the same reasons, HTML5 is also a candidate for cross-platform mobile applications, because it includes features designed with low-powered devices in mind.

Many new syntactic features are included. To natively include and handle multimedia and graphical content, the new <video>, <audio> and <canvas> elements were added, and support for scalable vector graphics (SVG)

content and MathML for mathematical formulas. To enrich the semantic content of documents, new page structure elements such as `<main>`, `<section>`, `<article>`, `<header>`, `<footer>`, `<aside>`, `<nav>` and `<figure>`, are added. New attributes are introduced, some elements and attributes have been removed, and others such as `<a>`, `<cite>` and `<menu>` have been changed, redefined or standardized.

The APIs and Document Object Model (DOM) are now fundamental parts of the HTML5 specification and HTML5 also better defines the processing for any invalid documents.

- **Javascript**

JavaScript is a high-level, dynamic, untyped, and interpreted programming language. It has been standardized in the ECMAScript language specification.

Alongside HTML and CSS, JavaScript is one of the three core technologies of World Wide Web content production; the majority of websites employ it, and all modern Web browsers support it without the need for plugins. JavaScript is prototype-based with first-class functions, making it a multi-paradigm language, supporting object-oriented, imperative, and functional programming styles. It has an API for working with text, arrays, dates and regular expressions, but does not include any I/O, such as networking, storage, or graphics facilities, relying for these upon the host environment in which it is embedded.

Although there are strong outward similarities between JavaScript and Java, including language name, syntax, and respective standard libraries, the two are distinct languages and differ greatly in their design. JavaScript was influenced by programming languages such as Self and Scheme.

JavaScript is also used in environments that are not Web-based, such as PDF documents, site-specific browsers, and desktop widgets. Newer and faster JavaScript virtual machines (VMs) and platforms built upon them have also increased the popularity of JavaScript for server-side Web applications. On the client side, developers have traditionally implemented JavaScript as an interpreted language, but more recent browsers perform just-in-time compilation. Programmers also use JavaScript in video-game development, in crafting desktop and mobile applications, and in server-side network programming with run-time environments such as Node.js.

- **Advantages of Javascript**

- Javascript is executed on the client side
This means that the code is executed on the user's processor instead of the web server thus saving bandwidth and strain on the web server.

- Javascript is a relatively easy language
The Javascript language is relatively easy to learn and comprises of syntax that is close to English. It uses the DOM model that provides plenty of prewritten functionality to the various objects on pages making it a breeze to develop a script to solve a custom purpose.
- Javascript is relatively fast to the end user
As the code is executed on the user's computer, results and processing is completed almost instantly depending on the task (tasks in javascript on web pages are usually simple so as to prevent being a memory hog) as it does not need to be processed in the site's web server and sent back to the user consuming local as well as server bandwidth.

- Extended functionality to web pages
Third party add-ons like Greasemonkey enable Javascript developers to write snippets of Javascript which can execute on desired web pages to extend its functionality.
If you use a website and require a certain feature to be included, you can write it yourself and use an add-on like Greasemonkey to implement it on the web page.

CHAPTER 2

PROPOSED SYSTEM

2.1 Proposed System

The proposed system is the first application of its kind, it is a collaboration of three systems which compliment each other in such a way that their functionality complete each other.

The system will not only give the entrepreneurs the benefit of being able to raise funds for their business but also allow them to gain better insight of the number of knacks that are helpful in running a business.

It will enable the subscribers to have an access to the calculation in their own organization by keeping track of records, transactions and other activities of campaign.

Along with the campaign creation, the system allows the subscribers to add documents against the same. A pre-defined document structure will be maintained for each campaign.

The system will generate reports and analytics like that will help admins to get idea of the various statistics such as total funding saught in a specific time frame , most popular category for campaigns , ratio of successful campaigns to unsuccessful campaigns for a particular time frame.

Once the campaign is started by campaign owner , it is open for donations throughout the campaign duration.Campaign duration is a fixed duration of campaign for which the campaign is open for donations.Campaign owner sets the campaign goal and aims to achieve that goal within the respective campaign duration.If the goal is achieved the donation amount is credited to campaign owner's bank account , if not all the donation transactions are reverted back to the donors.

Thus, the whole process of system engages the users of an organization by involving them to maintain the campaign data which will eventually help them to know if their plan will result profitably or not.

2.2 Objectives of System

SpurStartUp is a system with an aim of helping young student entrepreneurs in establishing their business by providing all the necessary facilities to the entrepreneurs.

The basic need of an entrepreneur is capital to invest in his business idea. SpurStartUp strives to provide this basic necessity to the entrepreneurs by enabling them to showcase their business idea over a large number of potential donors via internet.

Crowdfunding feature of the SpurStartUp not only helps campaign owners to raise funds for their campaigns but also it allows them to advertise their campaign to huge amount of viewers over the internet which could help them in their startups in later stages.

Just raising funds for your business and establishing your business is not enough, it is even more important to successfully run that business in order to get returns on the capital invested

in business. Odds of running a successful business becomes very low with little knowledge of business management. SpurStartUp's LMS portal offers variety of courses which helps entrepreneurs to get knowledge of running a business. The main objective of SpurStartUp is to groom successful entrepreneurs instead of just helping students to start their own startup.

Business Forum of SpurStartUp is designed with a goal of improving social skills of the entrepreneurs. Social skills are of very much importance for business owners. This business forum allows entrepreneurs to interact with number of people from community which helps them in building good social skills which would help them in later stage. Another purpose of setting up such platform is that a large chunk of this forum's user base is of veteran entrepreneurs who can mentor the young entrepreneurs in number of ways. It also helps them to build important connections which are equally important in any business.

2.3 User Requirements

Crowdfunding Portal :

As a campaign owner subscriber should be able to create a campaign which includes information like campaign name,campaign title,campaign description,campaign featured image,videos,campaign duration,campaign goal etc. which will provide all the information about their campaign.

Campaign owner should be able to add pre-determined rewards for donations made by the other subscribers.

Campaigns created by campaigns owners need to be reviewed by SpurStartUp admins first before they are published on website.

It should be mandatory for campaign owners to link atleast one of their credit / debit card to their account through the stripe connect gateway.

System should enable viewers to donate to a specific campaign if the campaign duration is not over.

All the donations made to campaign are not to be transferred to campaign owner directly, instead all the donations are to be held until the campaign is over.

Once the campaign is over system will check if the total amount of donations is greater than or equal to campaign goal, if yes the donation amount is transferred to campaign owners bank account else all the donation transactions are reverted back to their donors.

Viewers should be able to view all the campaigns that are approved by SpurStartUp admins.

LMS

As a student user should be able to create/view/edit/delete his own profile which will be visible to other subscribers of the system.

A student user should be able to view courses displayed on LMS portal along with its details and fee structure.

A student user should be able to enroll for a course of his choice from the list of available courses by paying the pre-determined fees.

A student user should be able to view course material that is made available to students over the LMS portal.

Business Forum

A subscriber should be able to create,view,delete,edit,share,like,comment posts/questions/polls posted on activity stream.

A subscriber should be able to view available mentor sessions and chose to join any one of them.

A subscriber should be able to upgrade his account to premium account to access additional functionality.

A premium subscriber should be able to create/join a group created by admins.

A premium subscriber should be able to create/share project and create tasks in that project.

A premium subscriber should be able to create a drive linked to his account where he can upload / share / create documents and files.

An admin should be able to view pending posts which are waiting for approval before they are visible to public.

An admin should be able to create a group and invite premium subscribers to the group.

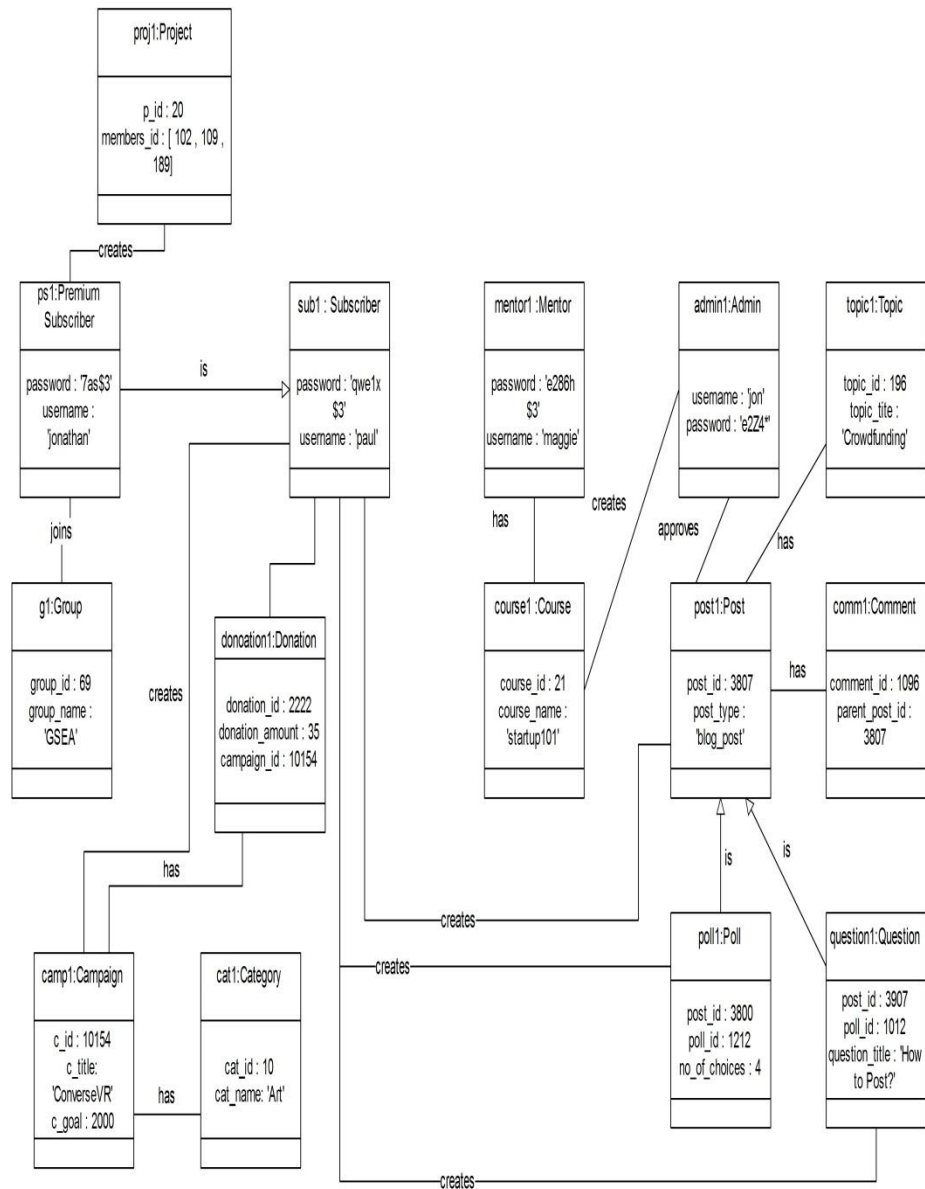
An admin should be able to create mentor sessions and assign a mentor to the mentor session.

A mentor should be able to view the mentor sessions and post in his mentor session.

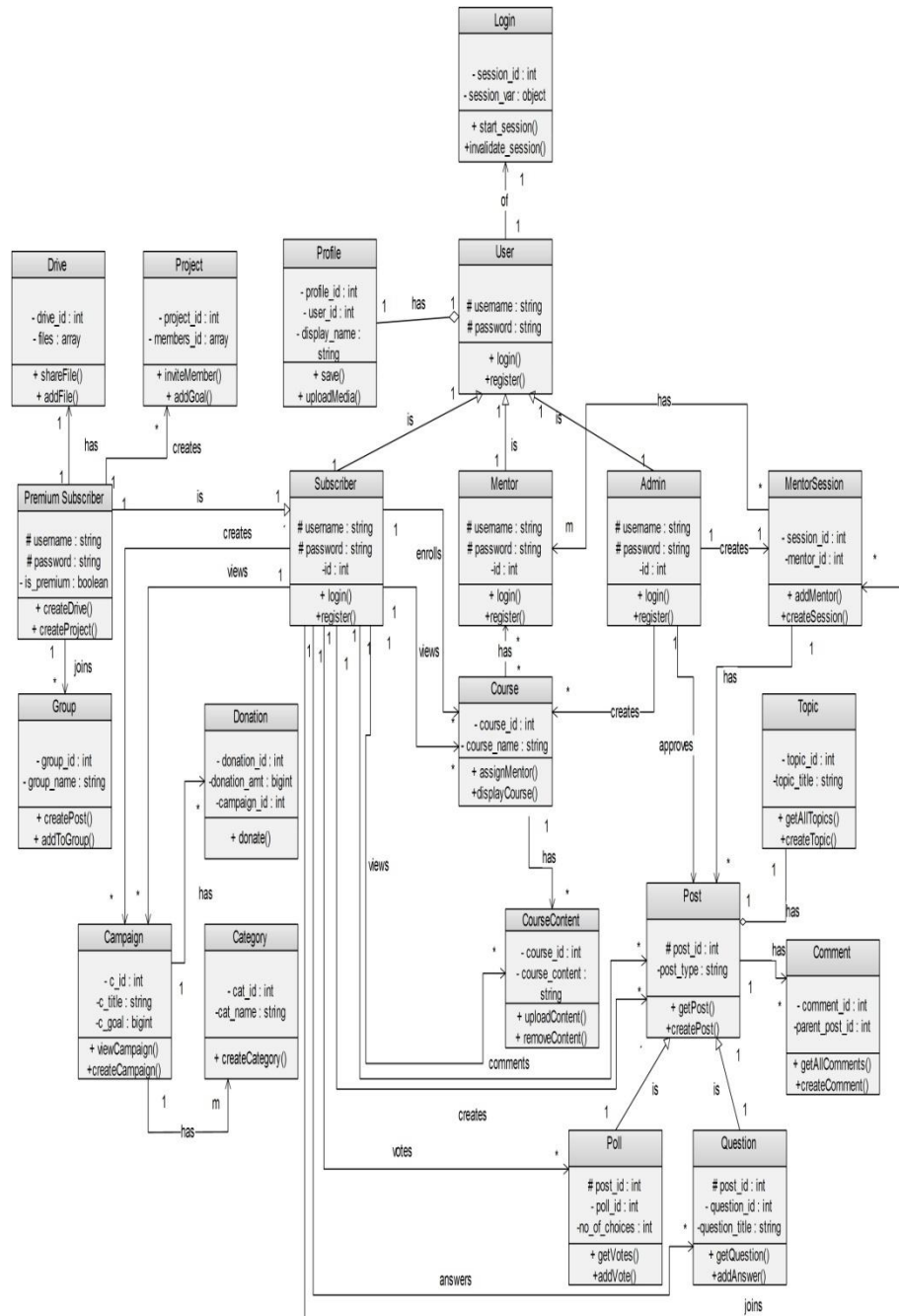
CHAPTER 3

ANALYSIS & DESIGN

3.1 Object Diagram



3.2 Class Diagram

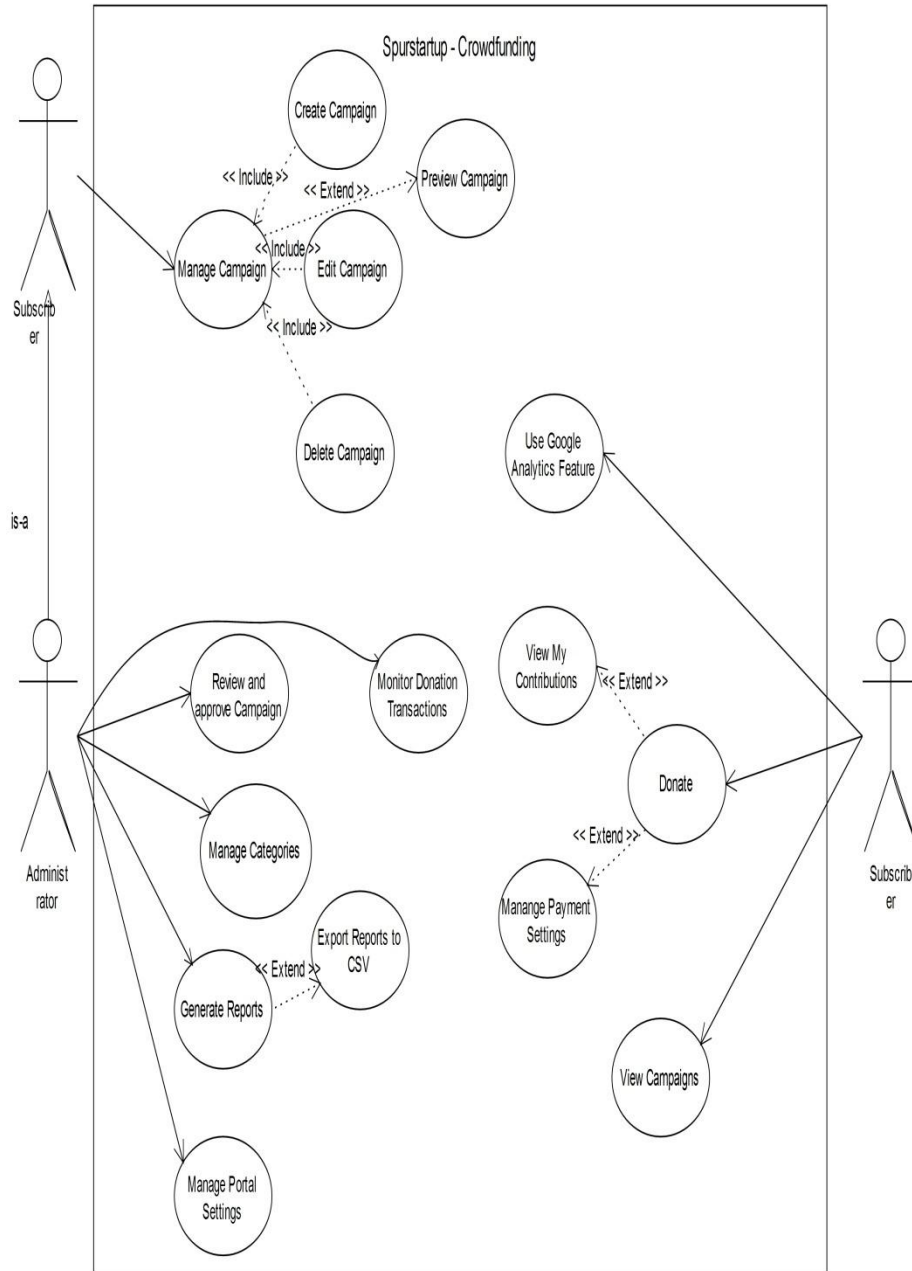


3.3 Use case

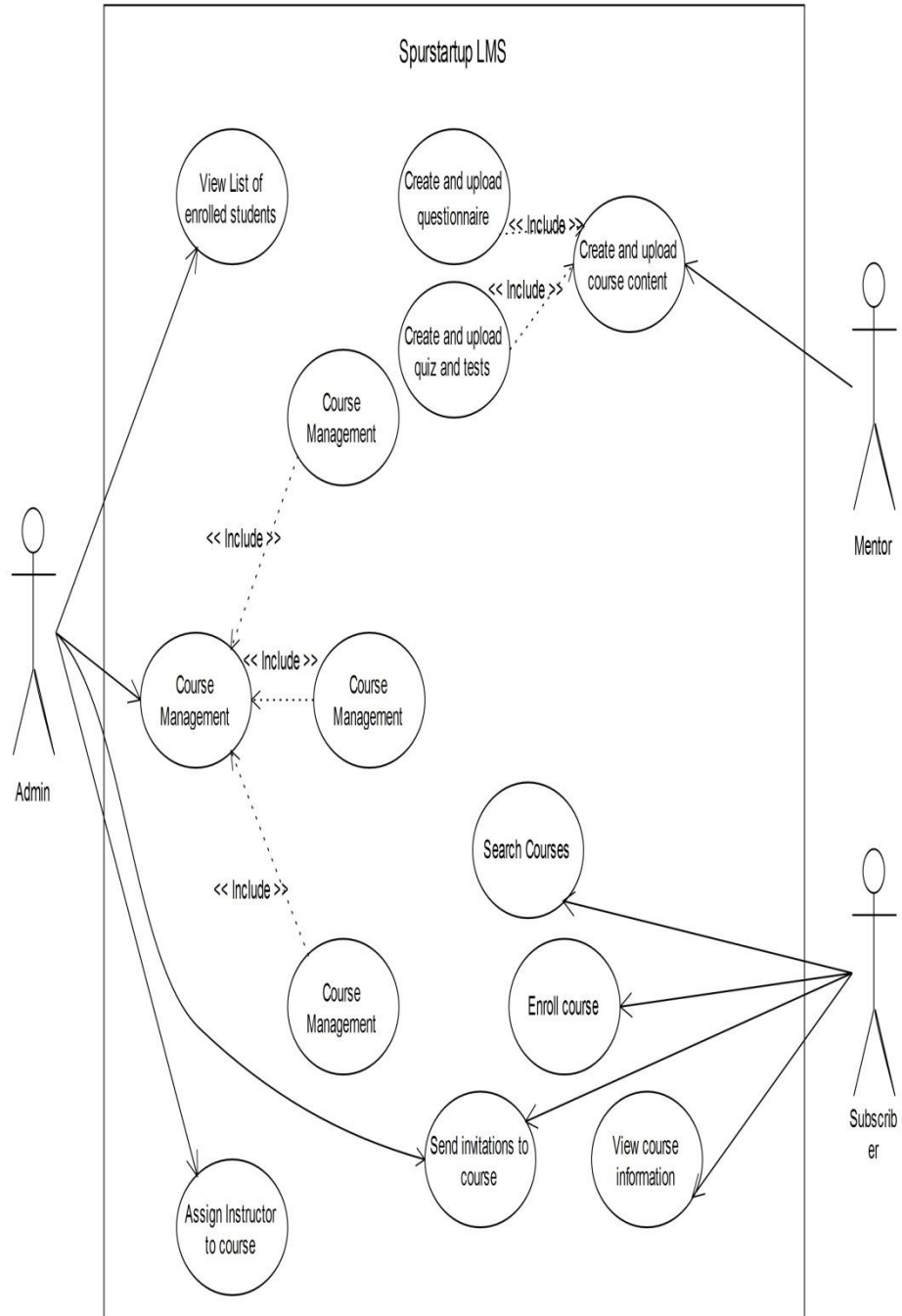
1) Business usecase



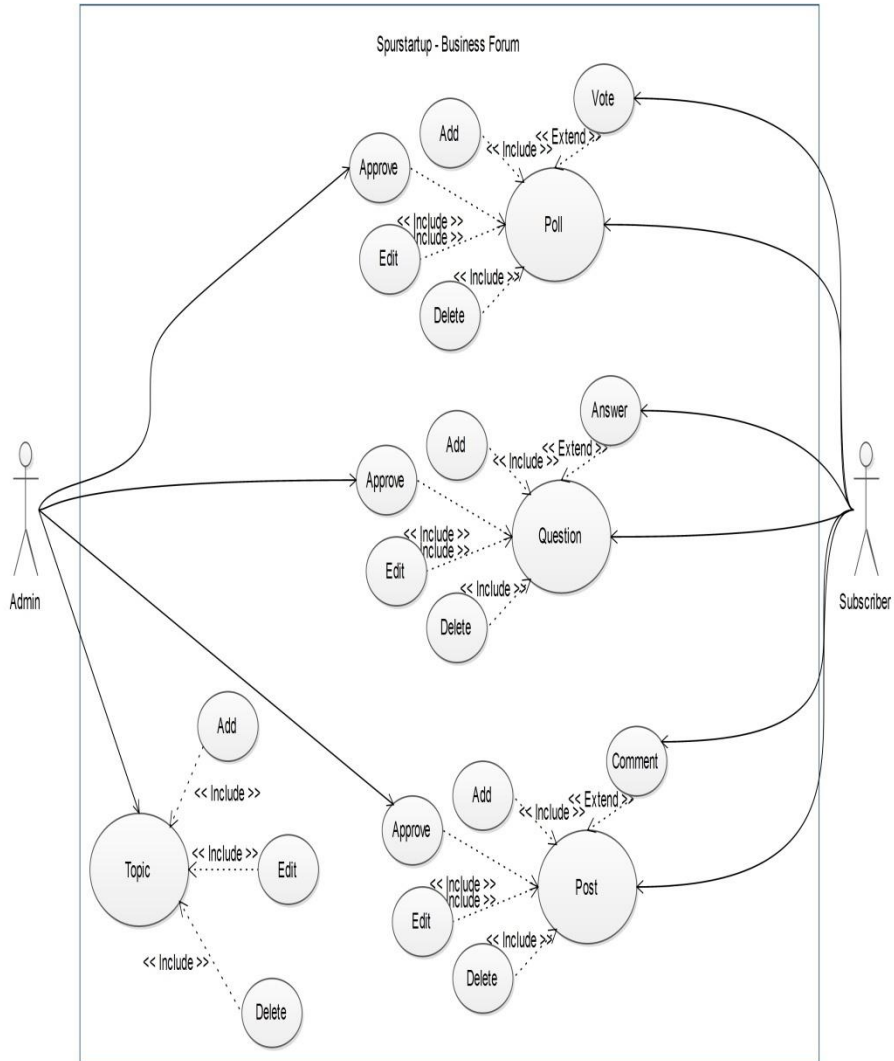
2) Crowdfunding usecase



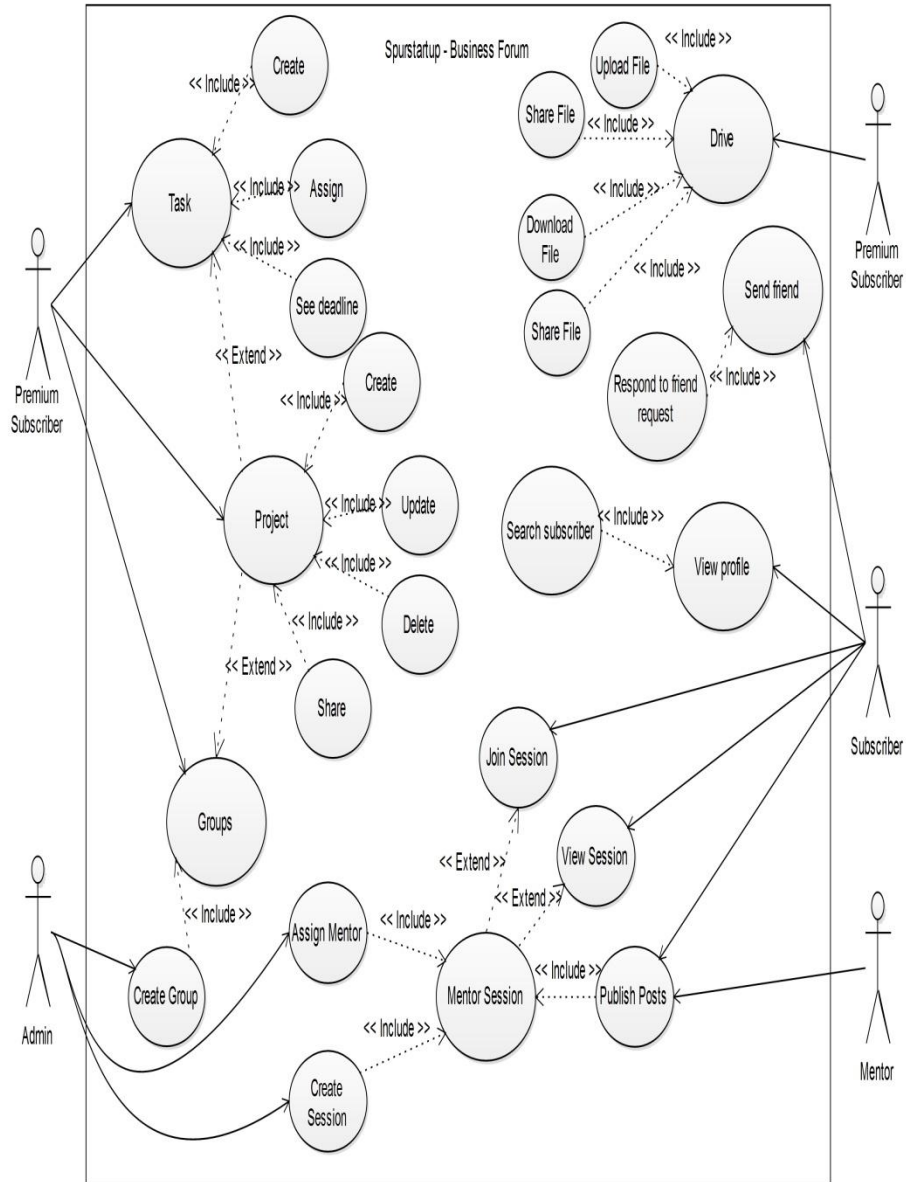
2) LMS usecase



3) Business Forum usecase 1

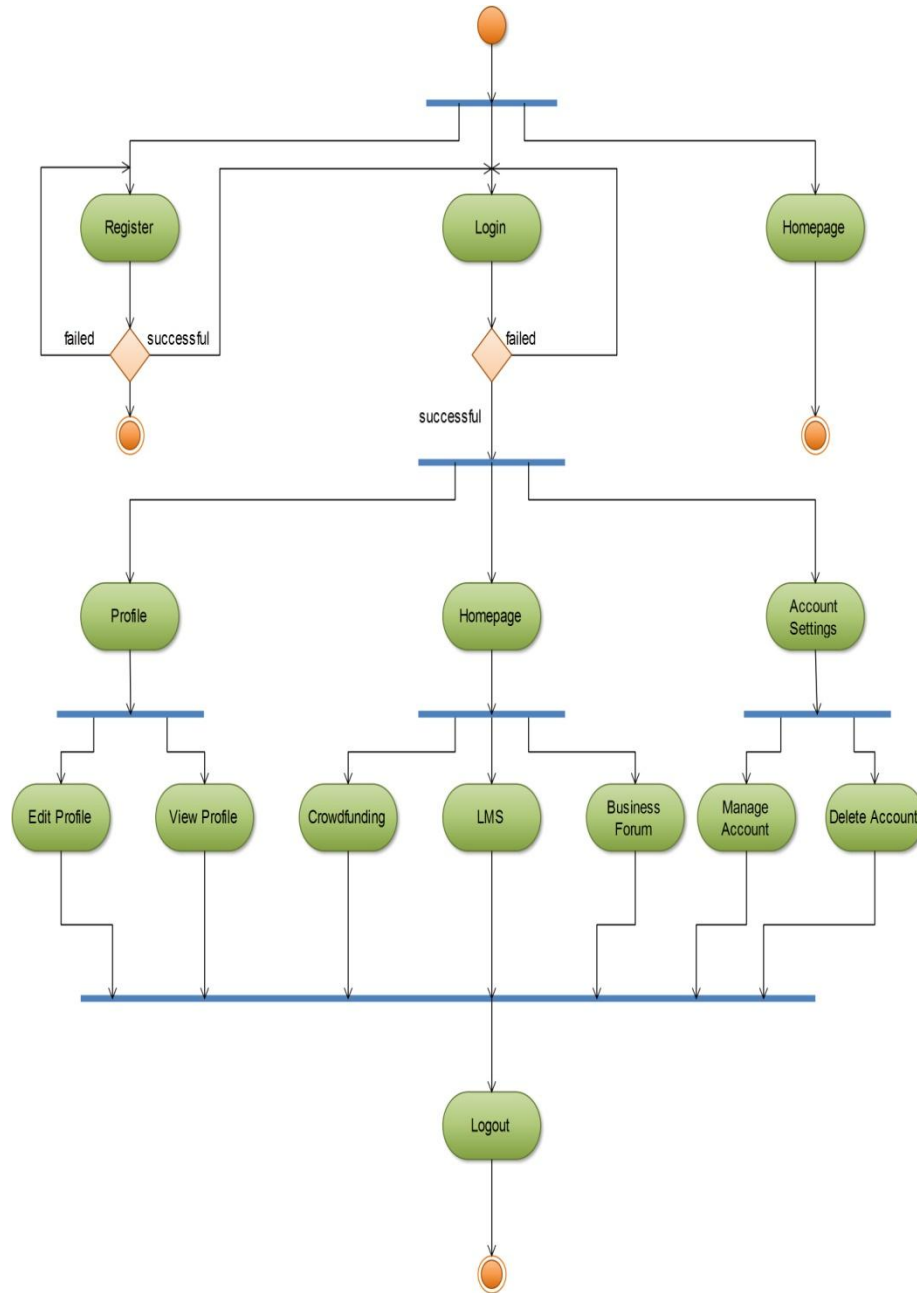


2)Business Forum usecase 2

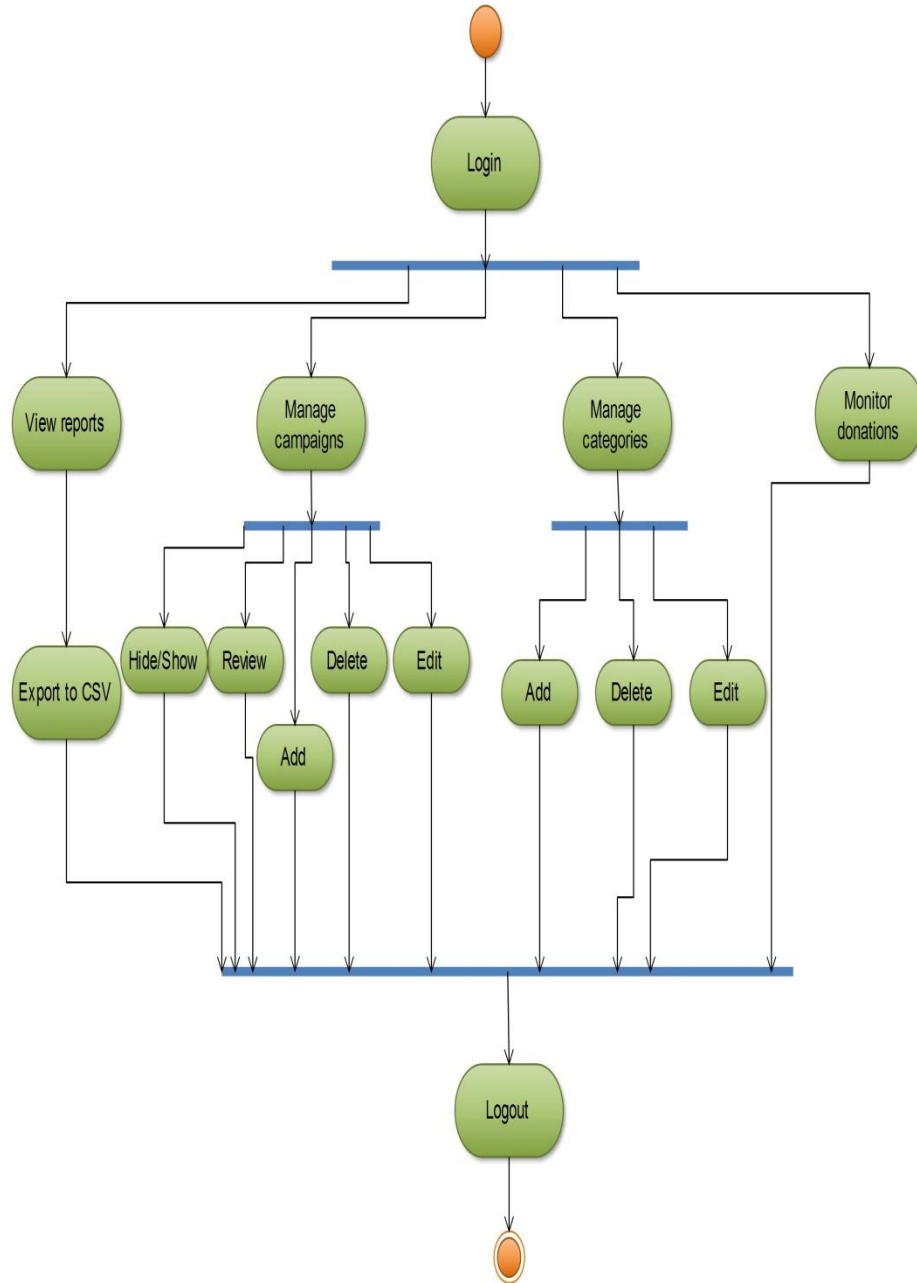


3.4 Activity Diagram

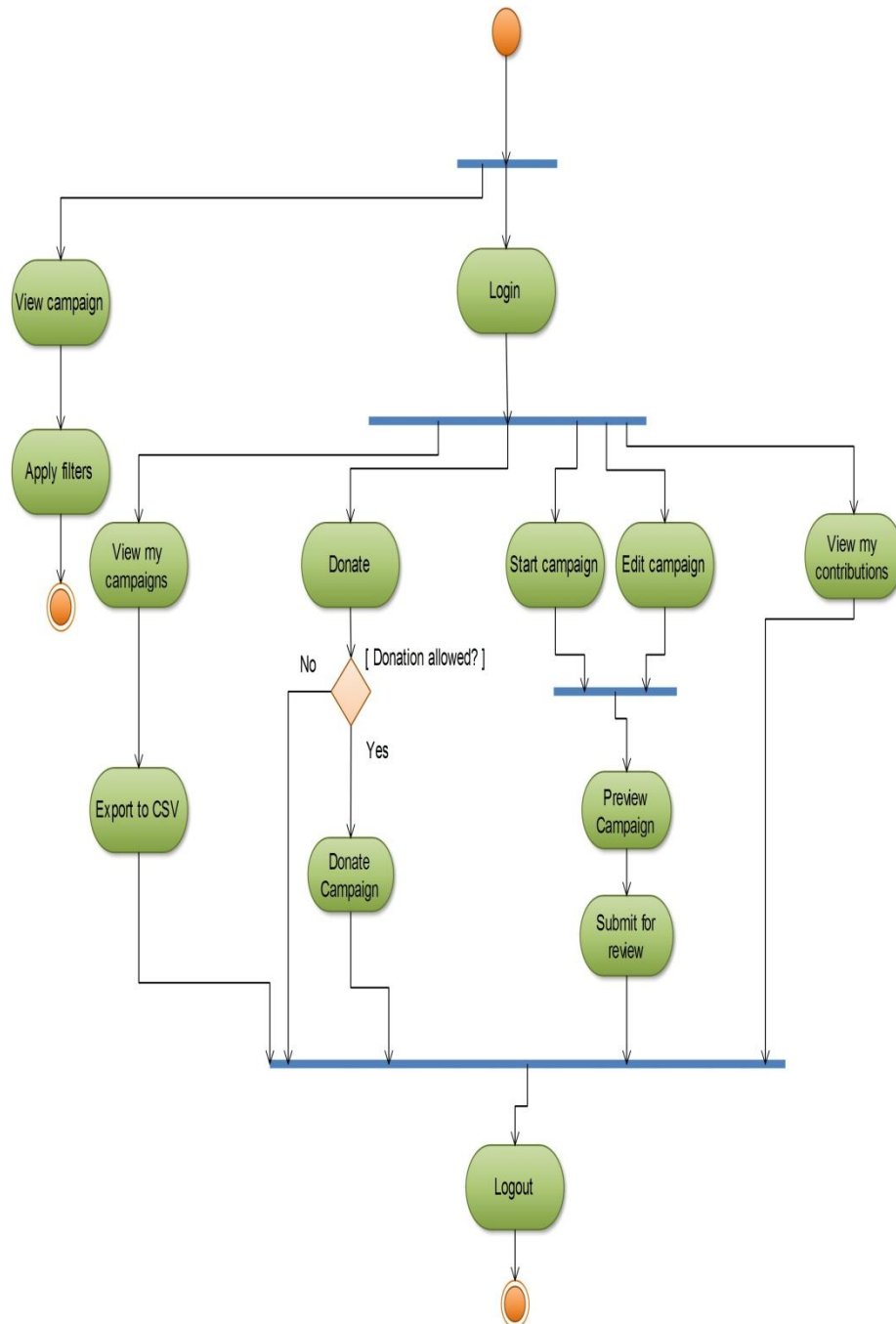
1) Activity Common



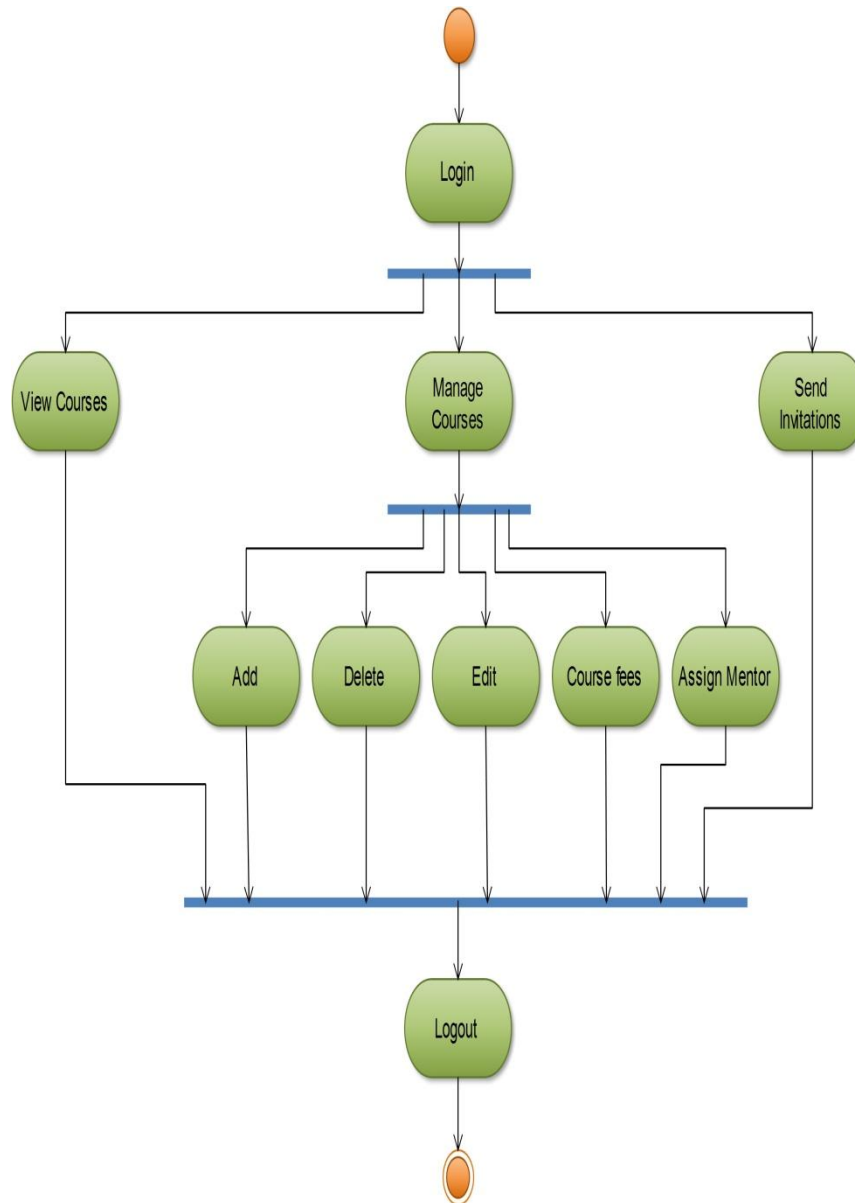
2) Activity Crowdfunding Admin



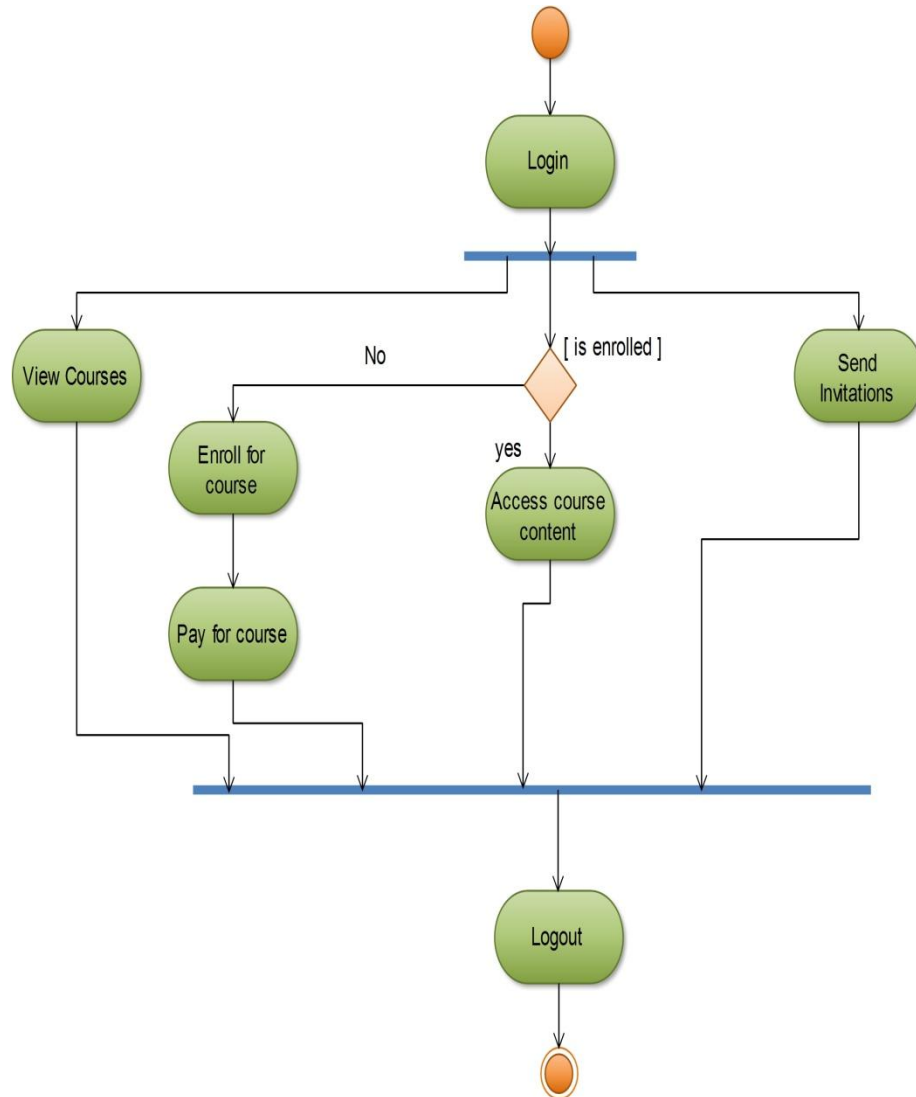
3) Activity Crowdfunding Subscriber



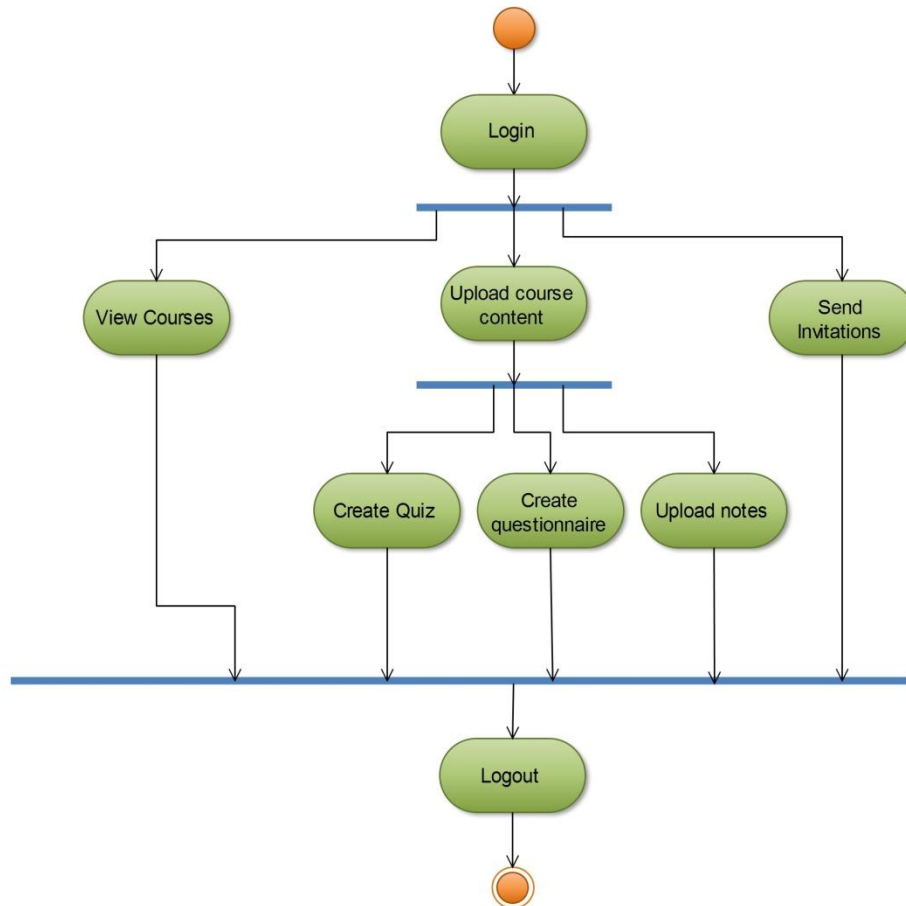
4) Activity LMS Admin



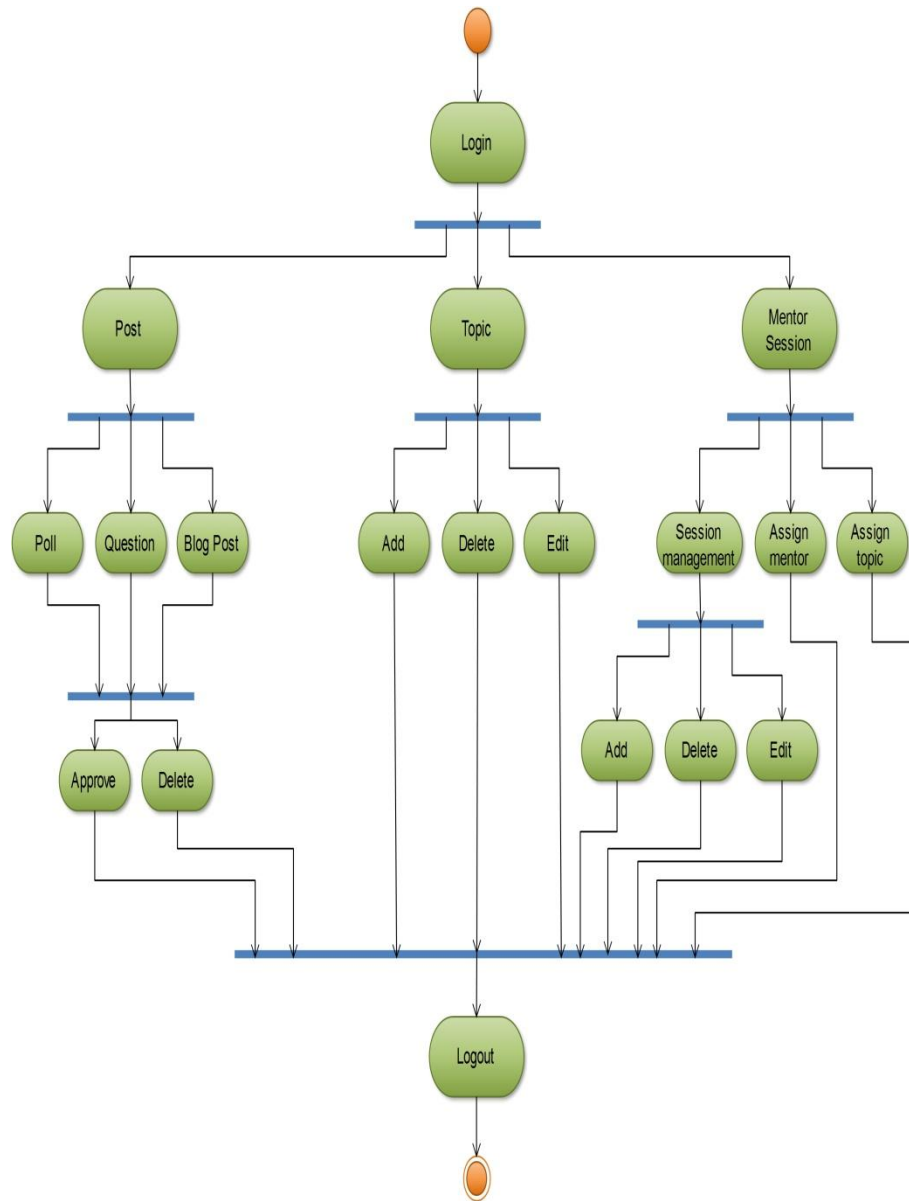
5) Activity LMS Subscriber



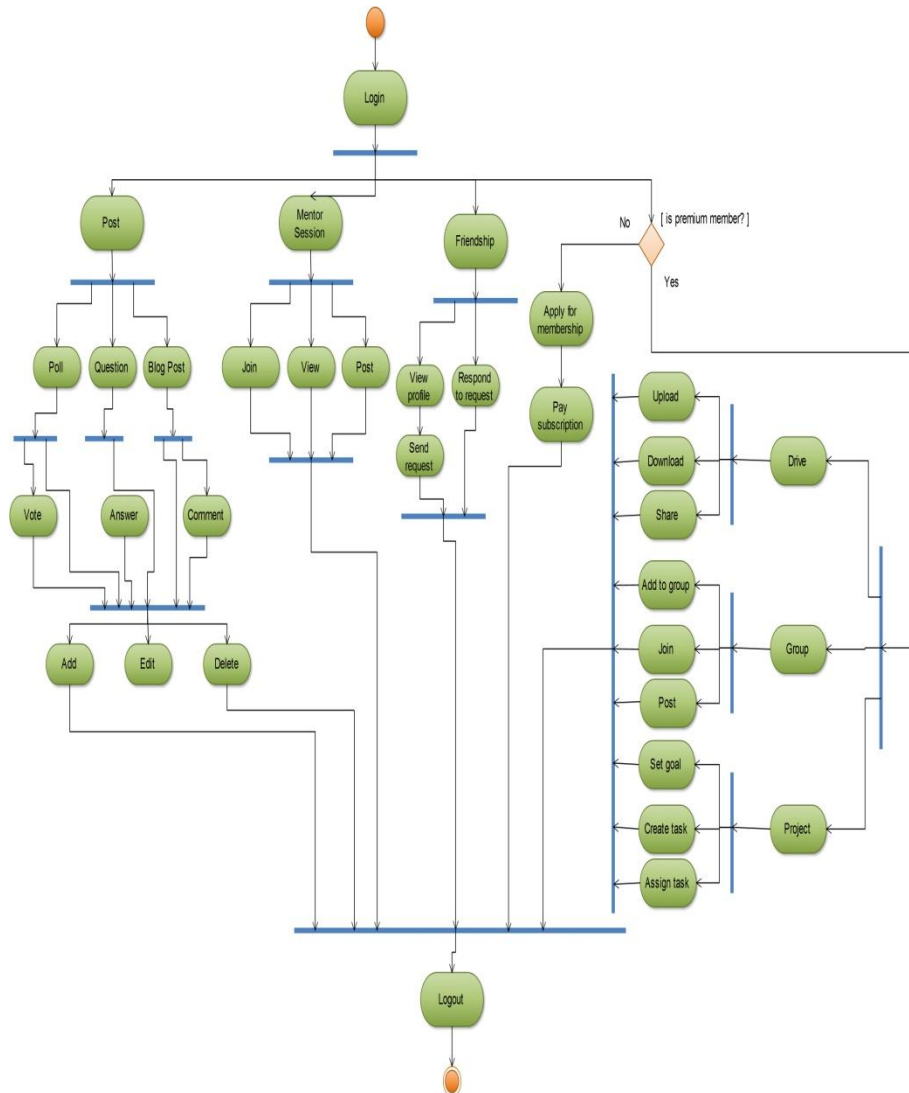
6) Activity LMS Mentor



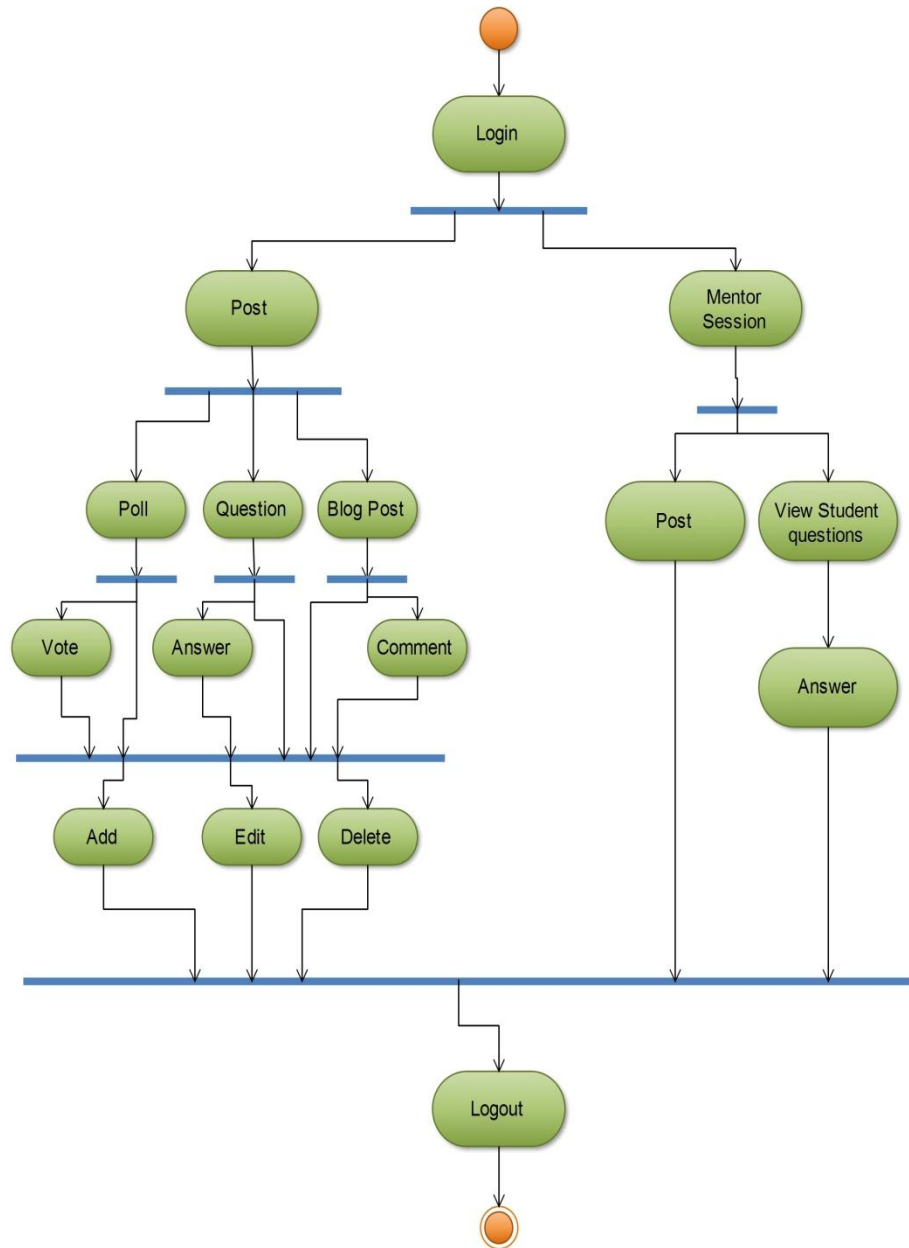
7) Activity Business Forum Admin



8) Activity Business Forum Subscriber

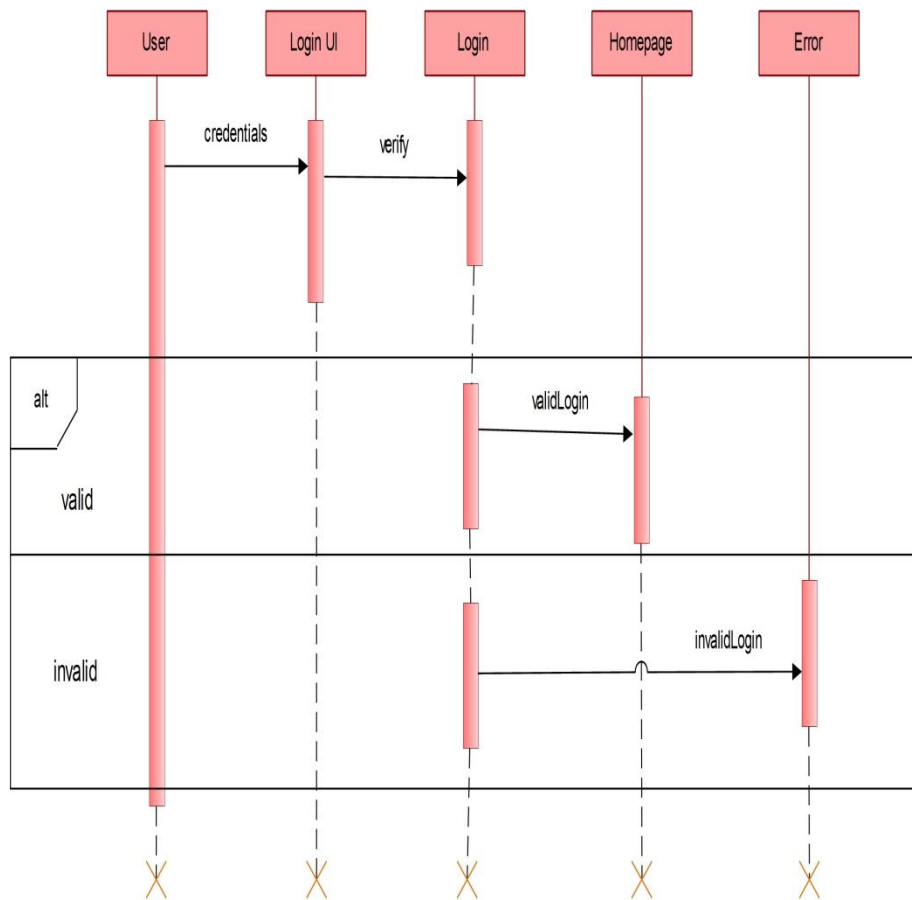


9) Activity Business Forum Mentor

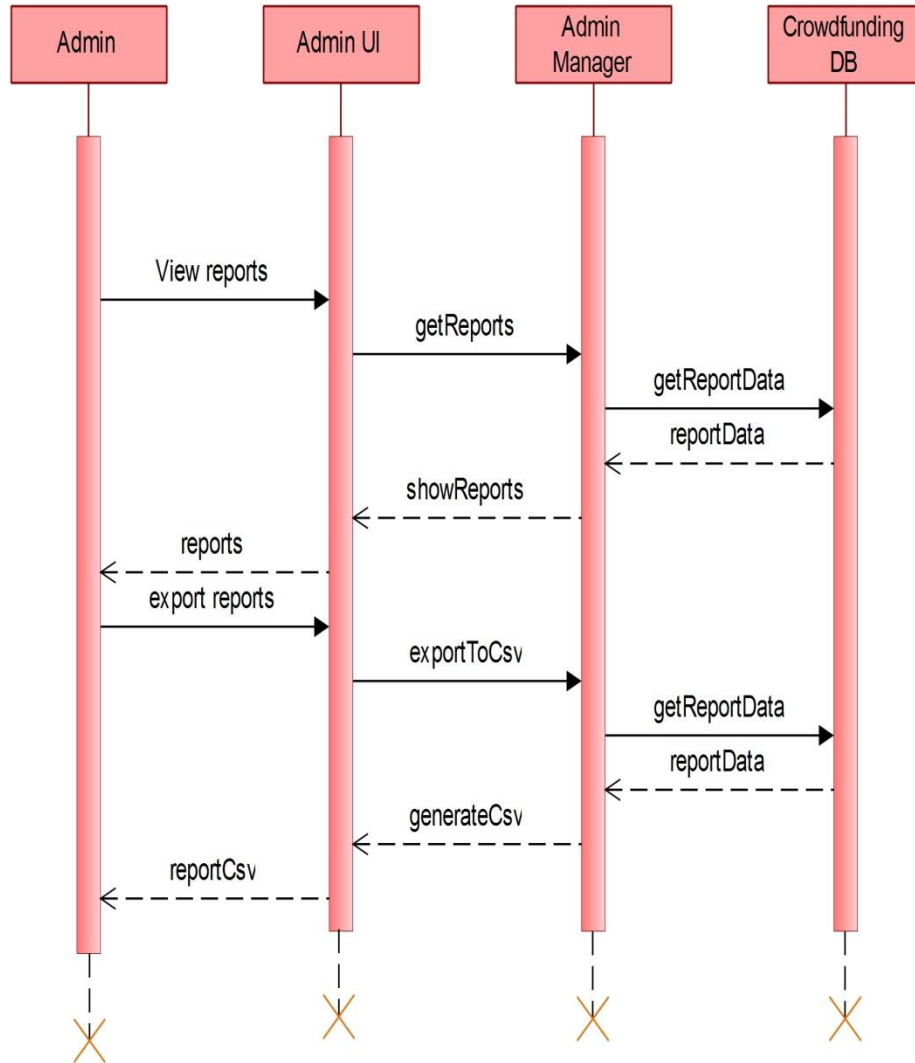


3.5 Sequence Diagram

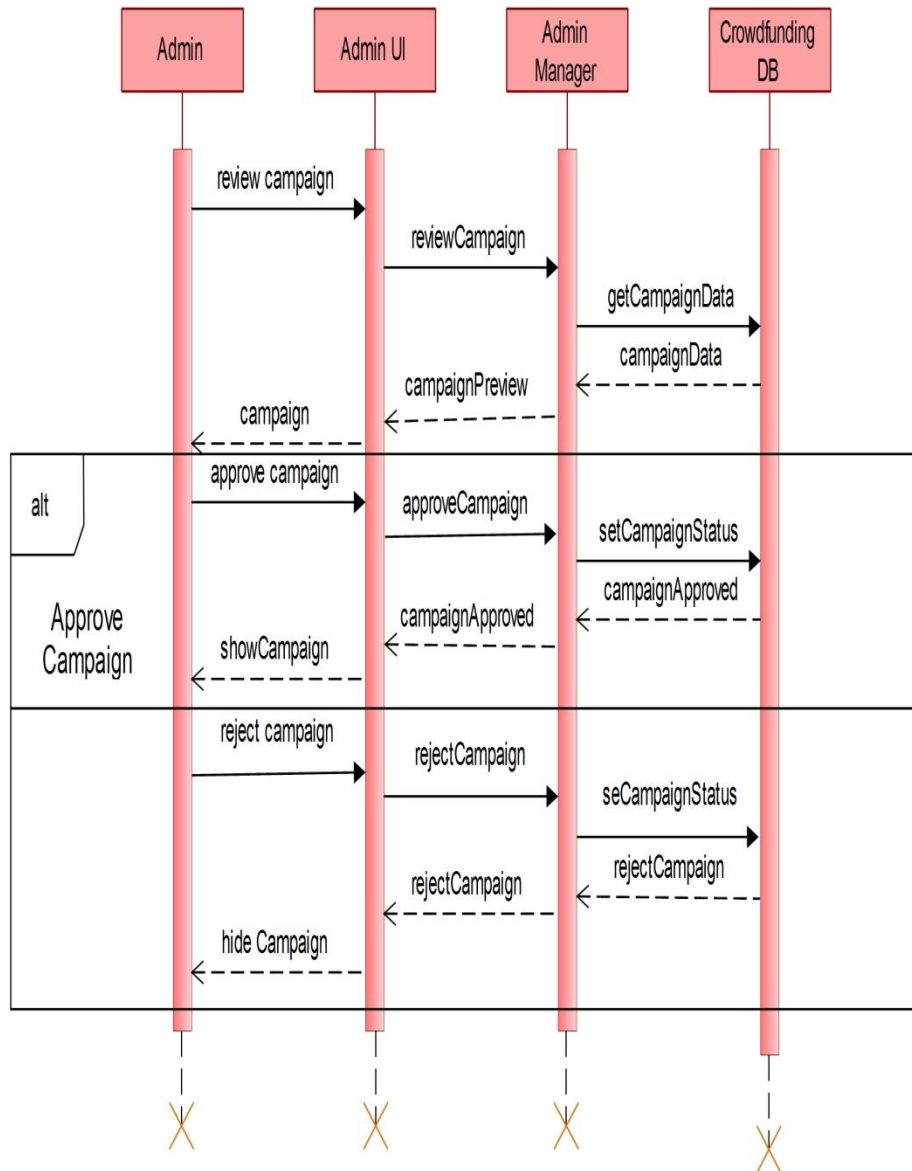
1) Sequence Login



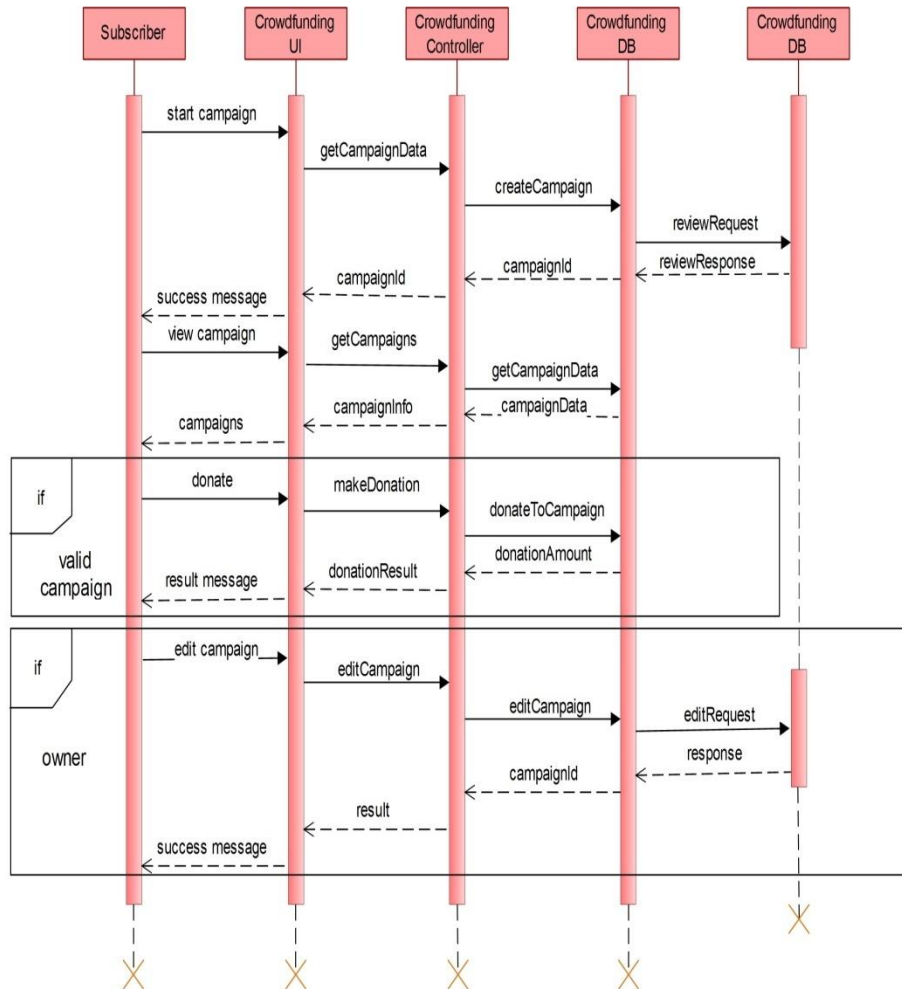
2) Sequence Crowdfunding Admin 1



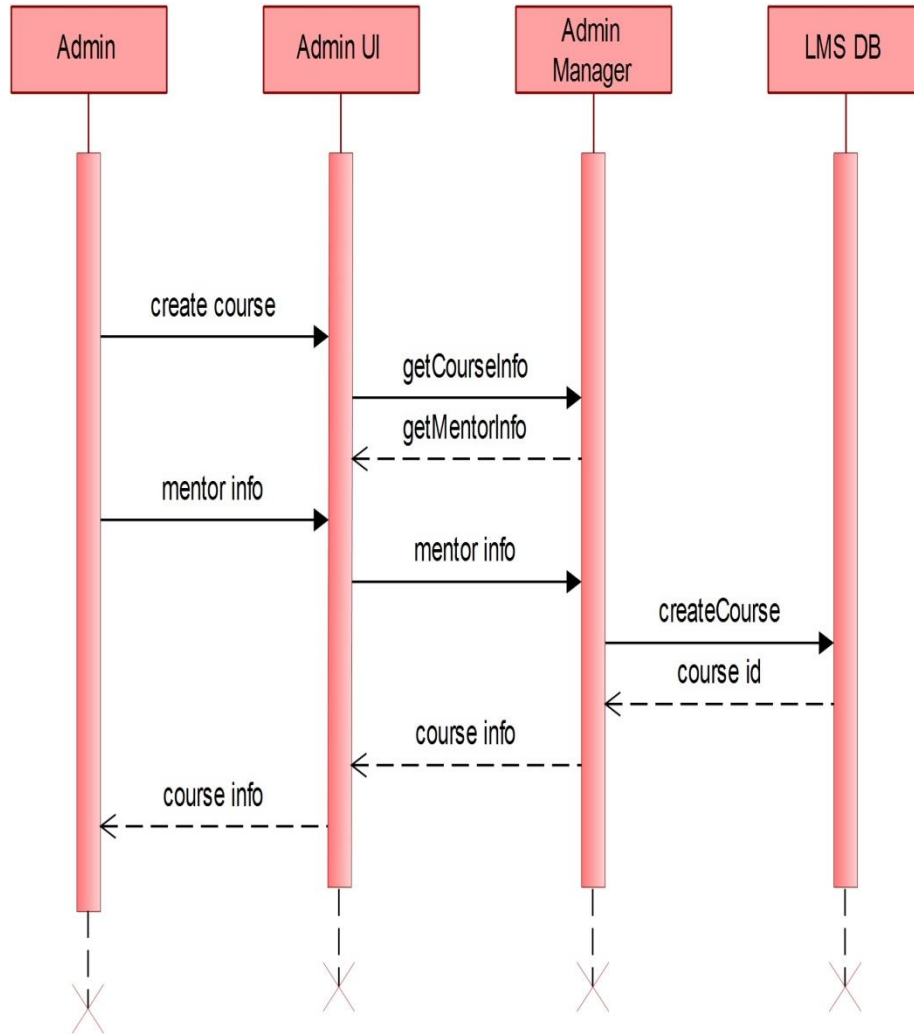
3) Sequence Crowdfunding Admin 2



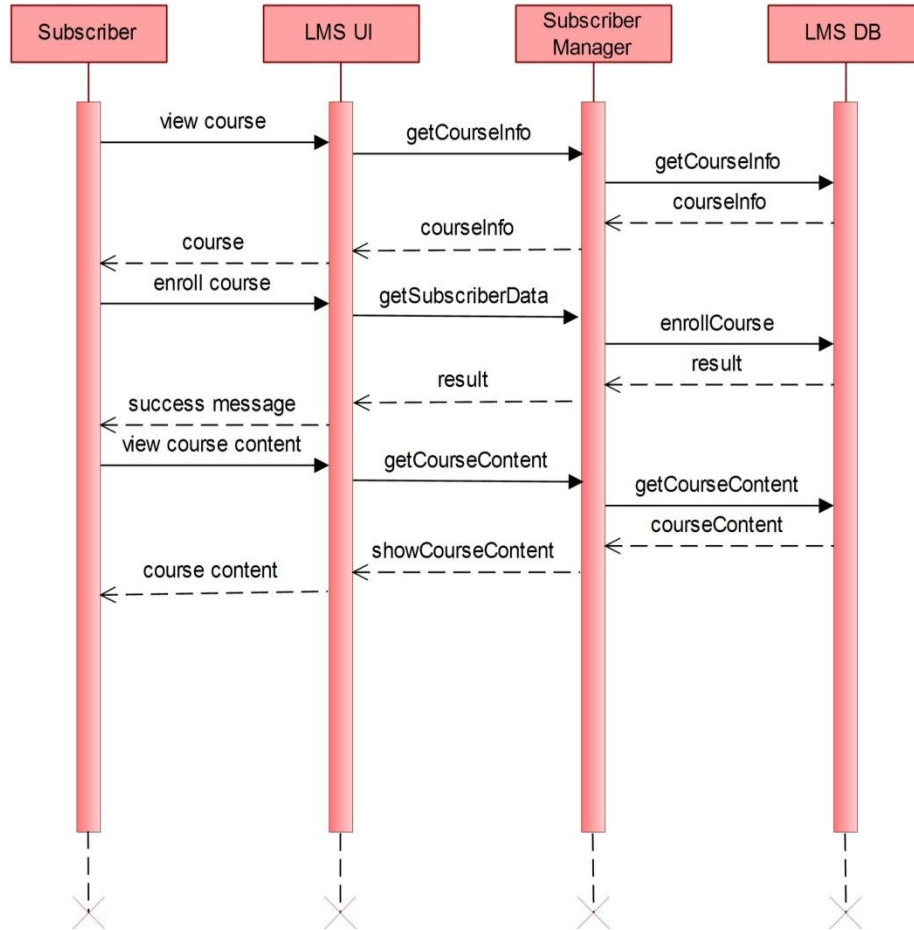
4) Sequence Crowdfunding Subscriber



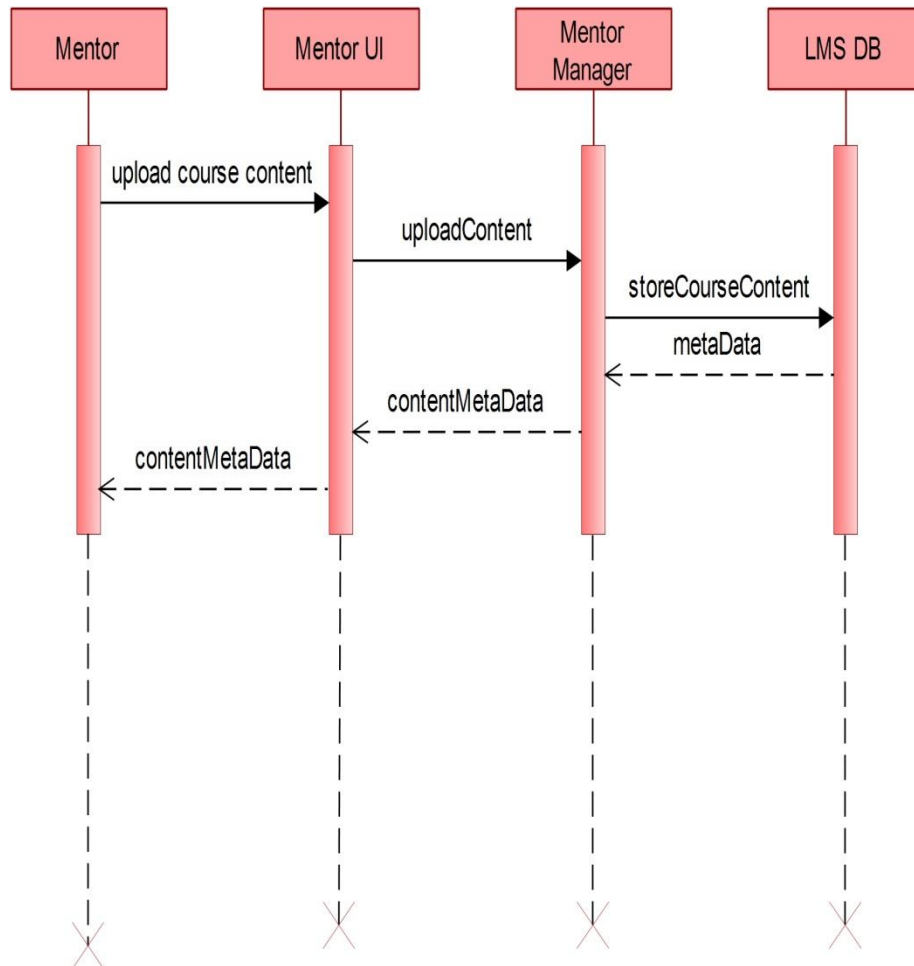
5) Sequence LMS Admin



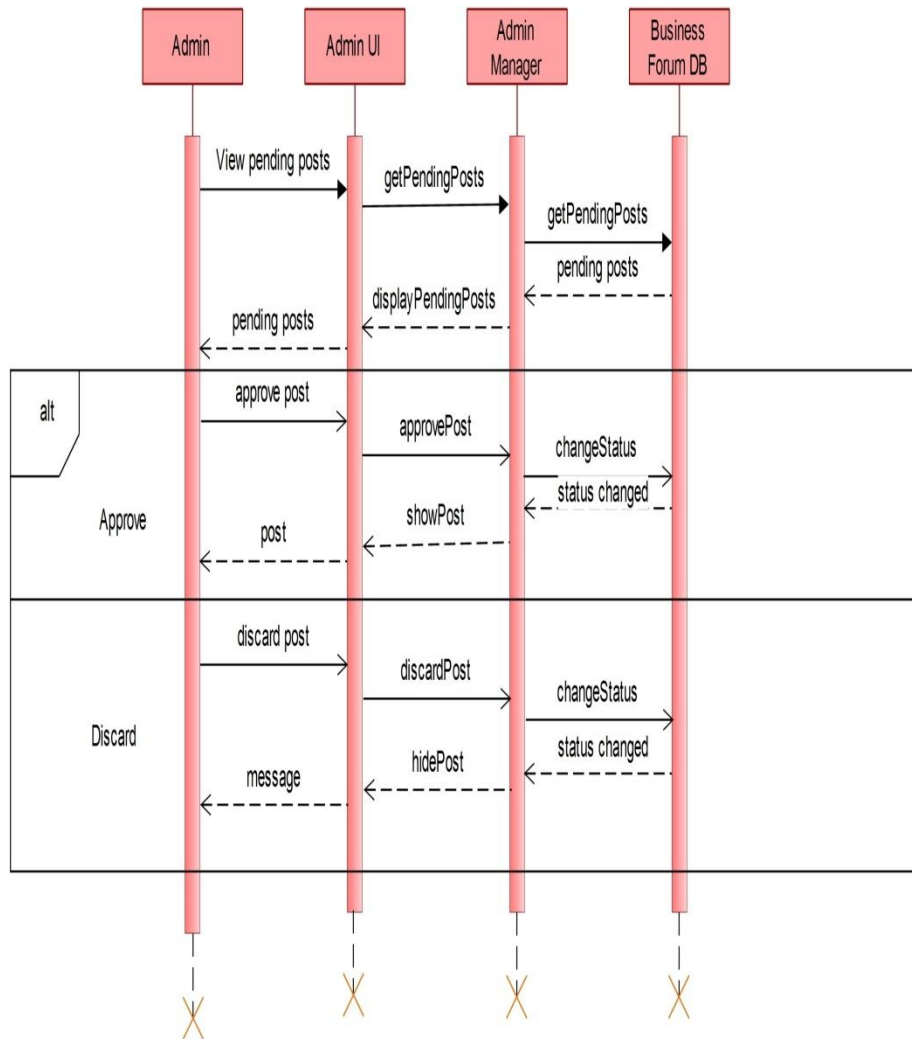
6) Sequence LMS Subscriber



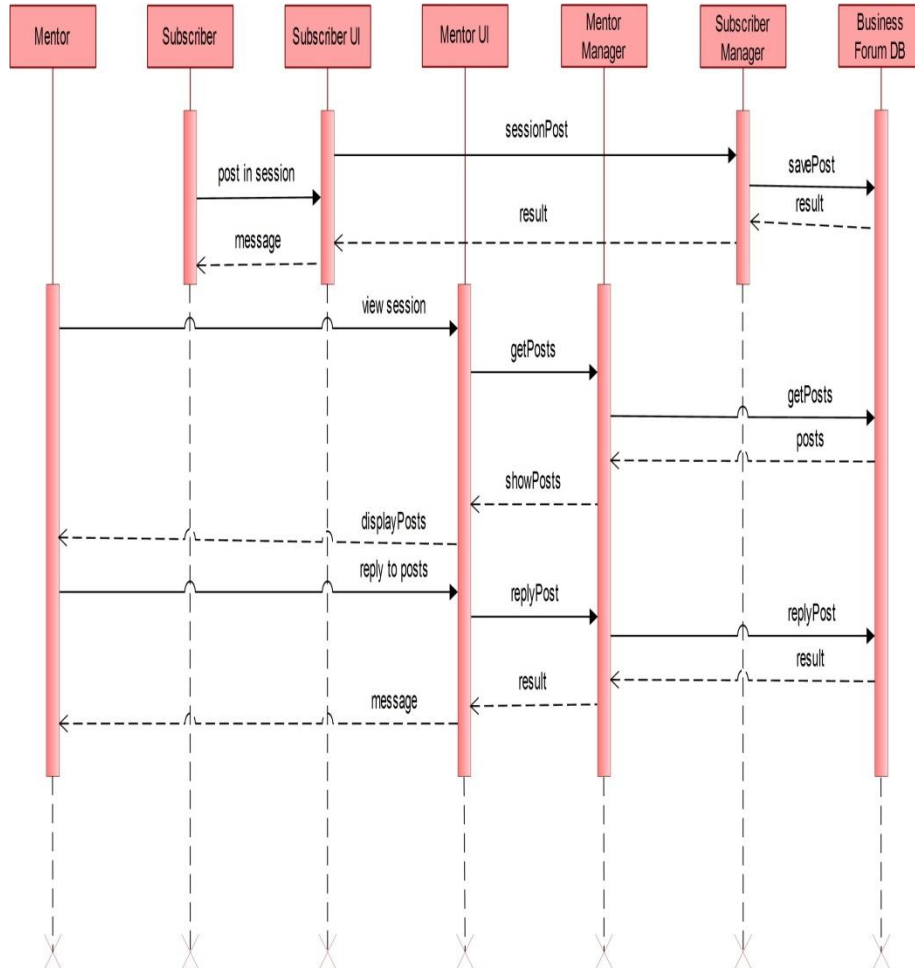
7) Sequence LMS Mentor



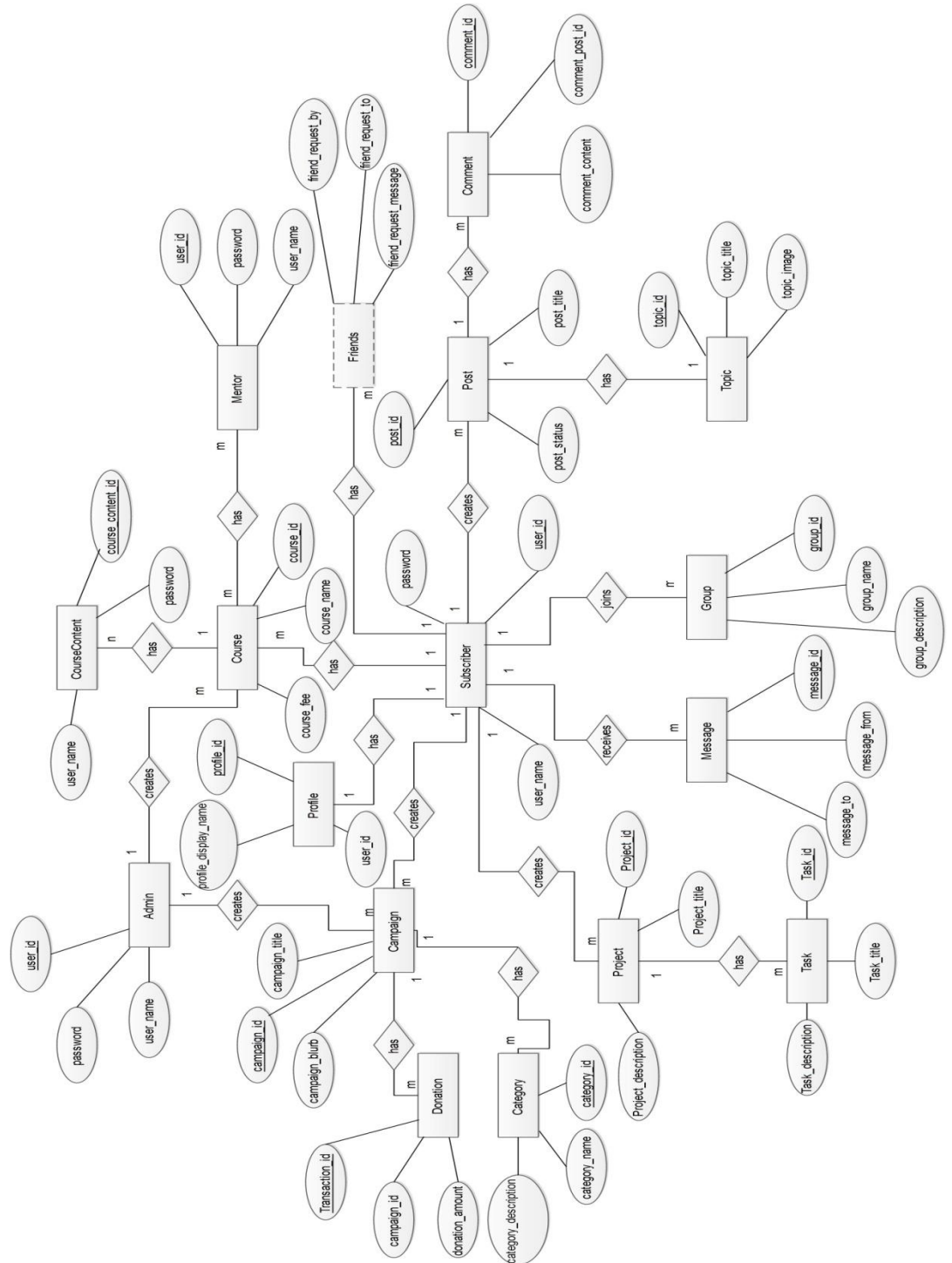
8) Sequence Business Forum Admin



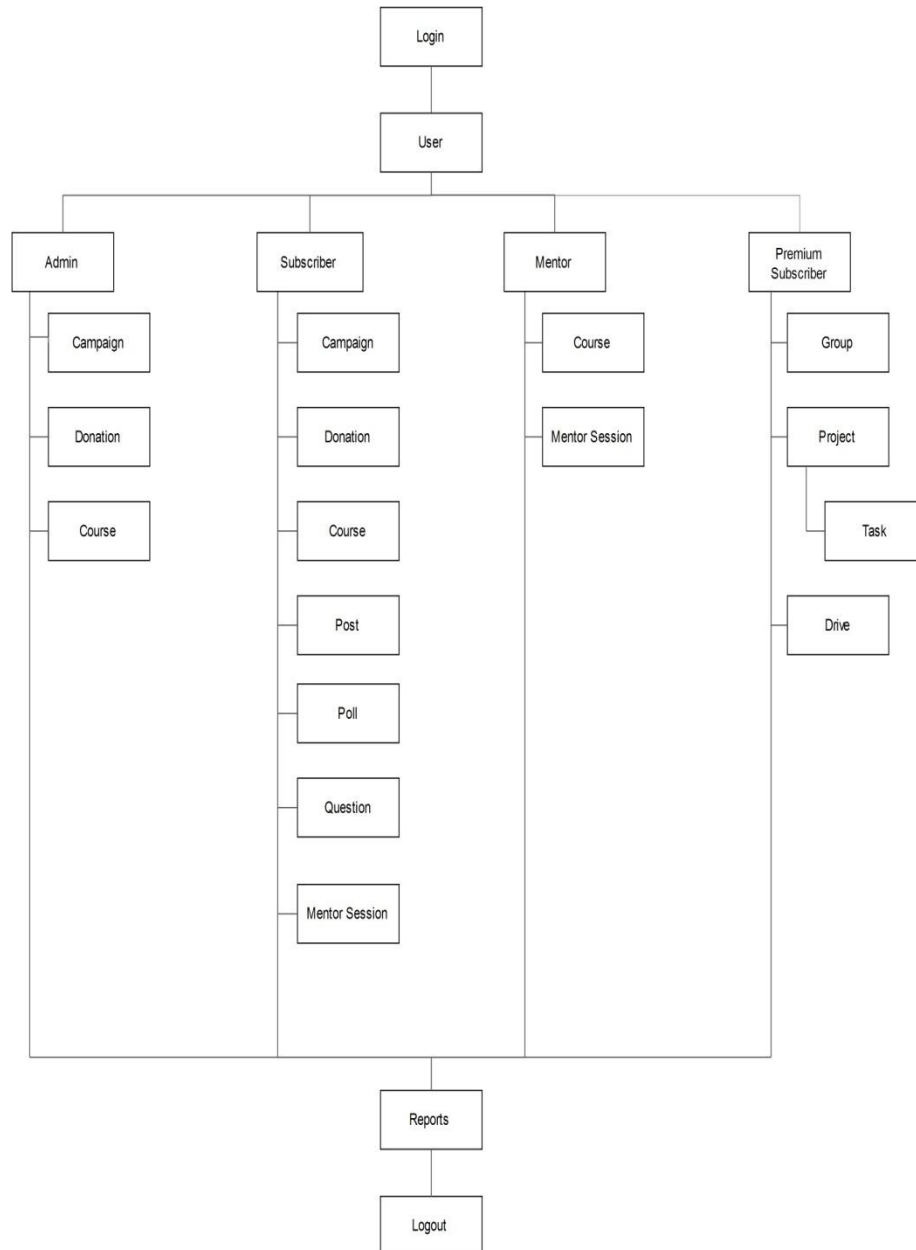
9) Sequence Business Forum Mentor



3.6 Entity-Relationship Diagram

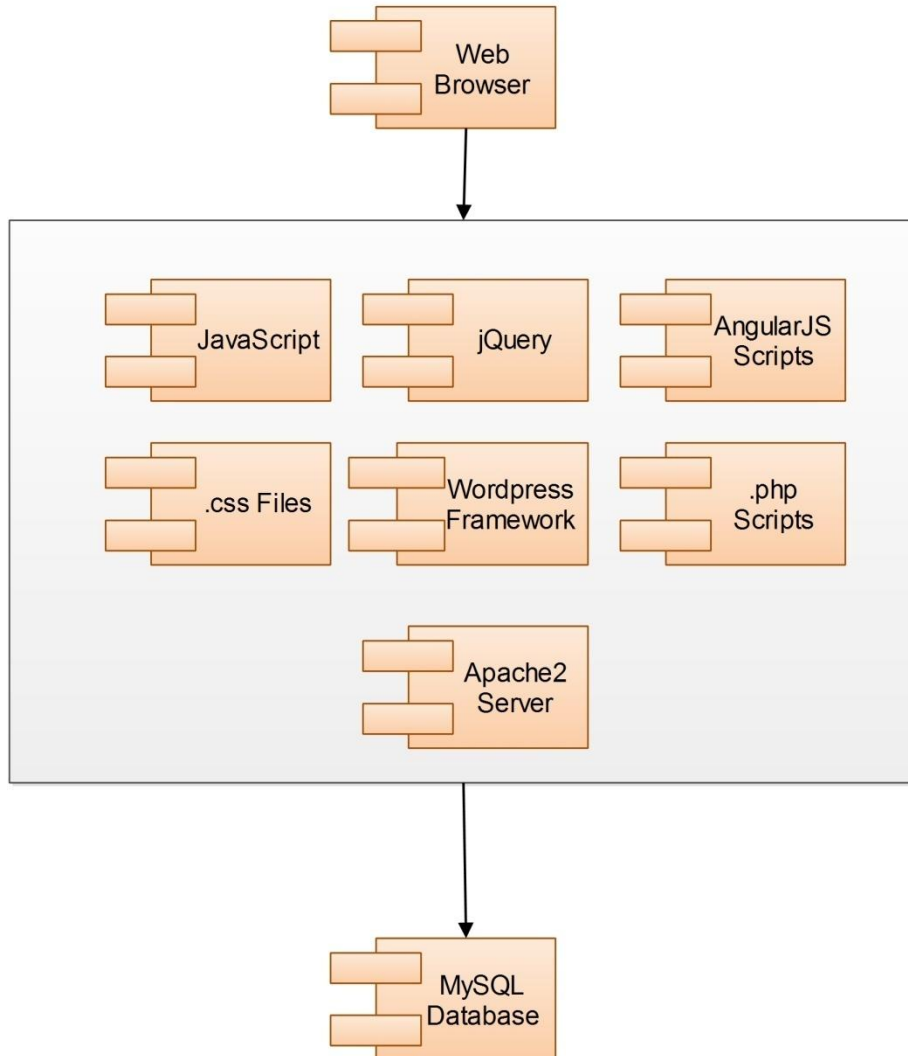


3.7 Module Hierarchy



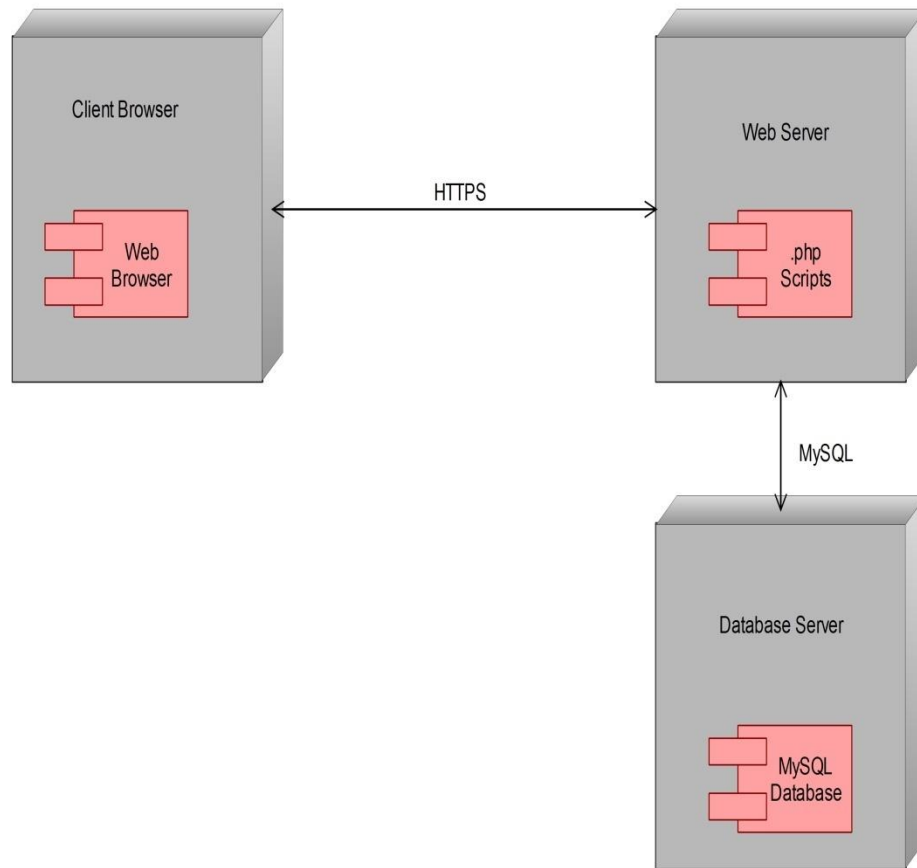
3.8 Component Diagram

3.8 Component Diagram



3.9 Deployment Diagram

3.9 Deployment Diagram



3.10 Module Specification

Crowdfunding :

Admin :-

Role of Admins in crowdfunding module is to monitor and review campaign before display.

Admin can edit campaigns created by other users.

Admin can create a category which is assigned to the campaign.

Admin can edit the category.

Admin can view all the donation transactions of a campaign.

Admin can view number of reports which are accesible through admin dashboard.

Admin can edit website settings.

Campaign :

Campaign can be created by subscribers.

Campaigns are approved by admins before starting.

A campaign is in active and running state until the campaign duration period expires.

Other subscribers can view the campaign which are in active and running state.

Subscribers can chose to donate an amount of their choice to a particular campaign.

Amount raised by a campaign is transfered to its owner if the campaign goal is achieved within campaign duration.

Campaign owner can choose to link his google account with camaign to check how many visitors have viewed his campaign within specific duration.

Campaign owner can preview his campaign before submitting the campaign for approval.

Subscriber :

Subscriber has profile linked with his account. Subscriber can edit his profile by adding information about himself such as profile picture, his education information, his professional experiences and other information.

Subscriber can view his Inbox which consists of sent messages and received messages.

Subscriber can view a consolidated information about the donations he has made so far to various campaigns.

Subscriber can add / save his credit / debit card information to his account for donation purpose.

Business Forum :-

Activity Stream :

Subscriber can create posts which are displayed on activity stream.

Posts are of following types :-

- **Blog Post** : A blog article containing textual as well as other information such as images, videos etc.
- **Poll** : A post which has a title and number of choices. Subscribers can vote for one of the choices of a poll.
- **Question** : A post which has a question. Subscribers can answer to the questions asked by other subscribers.

- **Update** : A textual post which is broadcasted all over the site like facebook.

Subscriber can assign a topic to the post while creating a post.

Subscriber can share the posts to other social sites such as facebook, google+ , twitter, pinterest.

Subscriber can like, bookmark the post which can be viewed later.

Subscribers can comment on posts posted on activity stream.

Friendship :

Subscribers can search for another subscriber of the system.

Subscriber can send a friendship request.

Subscriber can either accept or ignore the incoming friendship request.

Group :

Admin can create a group.

Premium subscriber can join a group.

Premium subscriber can invite other premium subscribers to the group.

Group members can post posts in the group.

Group can share a project.

Project :

Premium subscriber can create a project which can be shared among other premium subscribers.

A goal can be set to a project by project creator.

A project can be divided into number of smaller tasks.

Each task can be assigned to an individual or group of project members.

LMS :-

Course Management :

Admin can create a course. Admin has to fill the course creation form in order to create a course.

Admin can assign one or more mentors for a course.

Admin can send invitation to other users of the system.

Admin can edit a course.

Admin can delete a course.

Course Enrollment :

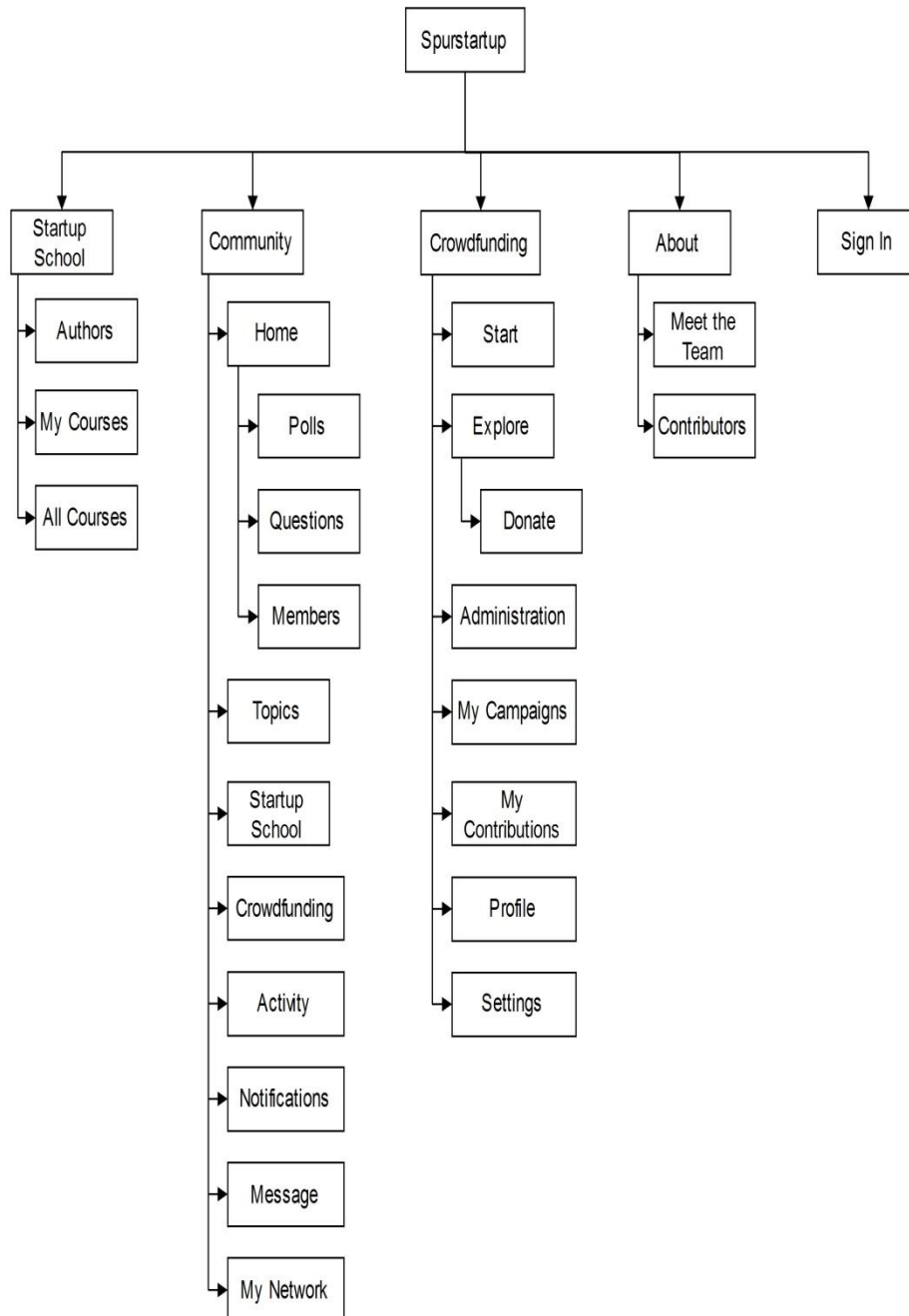
Subscriber can view a course.

Subscriber can enroll for a course.

Course :

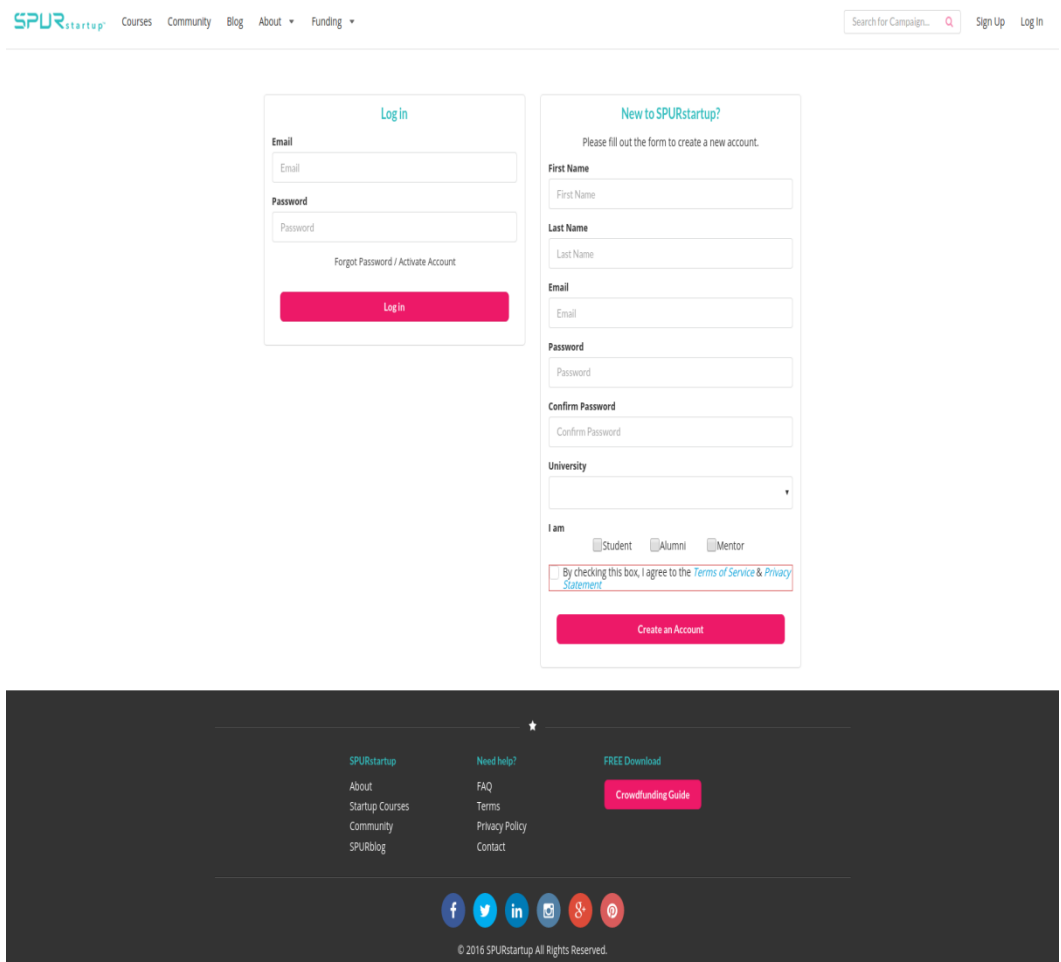
Mentor can upload the course content. Subscriber who has enrolled for a course can view the course content.

3.11 Website Map



3.12 User Interface Design

1) Login Screen



2) Create Campaign Screen

SPURstartUp Courses Community Blog About Funding

Search for Campaigns... Welcome

Basics Details Rewards Profile Funding Preview

Welcome to SPURstartUp!
Let's get started with your Campaign. Download our Crowdfunding Guide for a step-by-step walkthrough and expert tips!

Campaign Basics

Featured Image
The image should at least have a minimum width of 640px and a minimum height of 320px
[Learn more](#)

DRAG AND DROP YOUR IMAGE HERE

Upload Image Delete Image

Title
Test Campaign
[Learn more](#)

Custom Path
https://www.spurstartUp.com/campaign/741 test-campaign

Video
Please enter your campaign video link (YouTube or Vimeo)
[Learn more](#)

Blurb
[Learn more](#)
Please enter the summary for the campaign

Location
Enter a location

Category
Pick a category for your campaign. Do not worry! You can change it later if you decide that it is not the category for you.
Please select one or more categories
[Please select at least 1 category.](#)

Use Google Analytics to track the traffic to your campaign

Google Analytics Tracker ID:
Tracker ID
[Learn more](#)

Fundraising

Funding Goal
Your funding goal should be the minimum amount needed to complete the project and fulfil all rewards.
If your project is successfully funded, the following fees will be withdrawn from your funding total: campaign fee + card processing fee of 2.9% + transaction fee of \$0.30. If funding is not successful, there are no fees.
Total \$0
[Learn more](#)

Campaign Percentage Fee

Funding Duration
Decide how long fundraising for your project will run for.
We recommend that projects last 30 days or less, but campaigns can raise funds for up to 60 days. Shorter durations have higher success rates, and will create a helpful sense of urgency around your project.
Note: The deadline is the date that your campaign ends, not the date you will receive your funds. After your project ends, it can take up to 15 business days to receive your funds. After that, funds will be transferred to your bank account. Please plan accordingly.

Save Changes Next Step

SPURstartUp
About
Startup Courses
Community
SPURBlog

Need help?
FAQ
Terms
Privacy Policy
Contact

FREE Download
Crowdfunding Guide

f t in g s o

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3) Edit Profile Screen

Your Profile


Profile Type *

Individual User Profile

Individual Profile

Avatar

Your logo, photo or avatar image.
 JPEG, PNG, GIF or BMP - 50MB file limit
 Image should be at least 200x200



Upload Image
Delete Image

Name

Enter your full name.

First Name Last Name

Address

Enter your mailing address.
(Not public information)

Street

City Mail Code

Phone Number

Enter your phone number.
(Not public information)

Phone Number Landline

College(s) *

Select your university

Or if you don't see your college...

Add +

College Year

Freshman

Biography

Tell us a little about yourself!

300 max characters.

Links

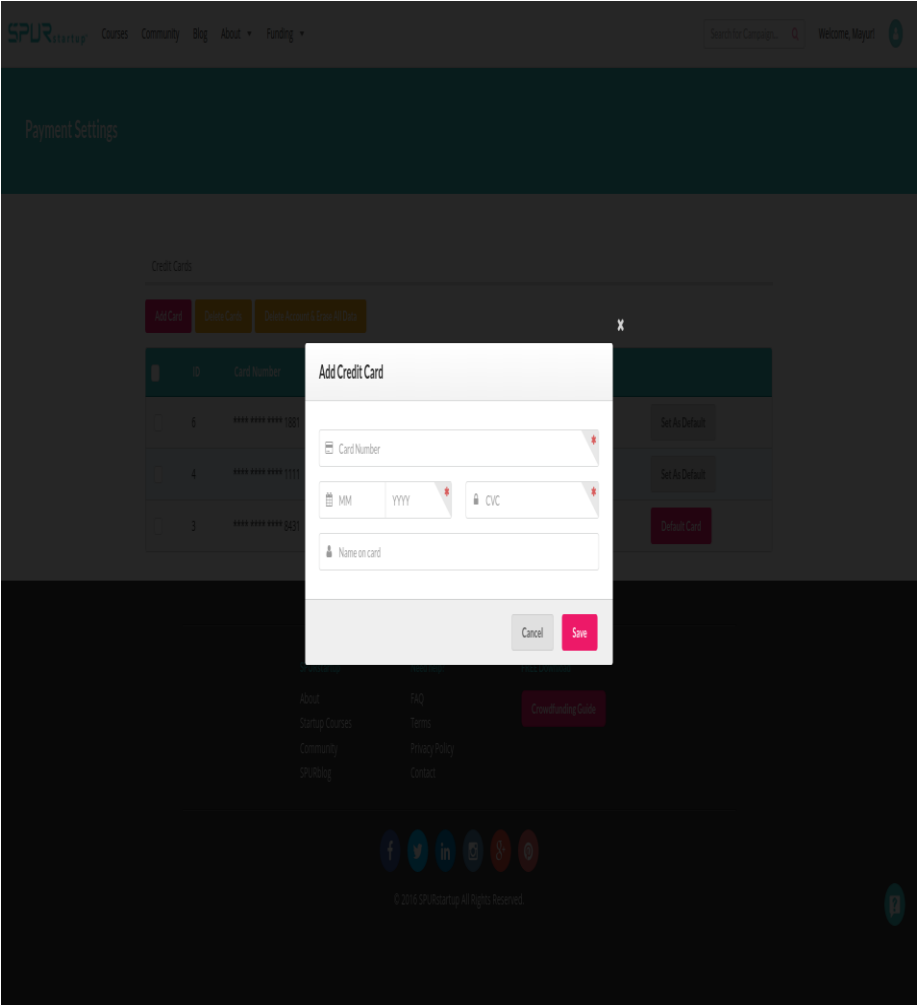
Add social links to your profile. You can have a maximum of 5 links.

Link text e.g. Google Link URL e.g. https://google.com

Add Link + ✕

Save Changes

4) Add Card Screen



5) Change Password Screen

Profile Details Companies Addresses Phone Numbers Account Settings

Edit Account Settings

Change Email [Send verification link to current email](#)

Change Password

Current Password

New Password

Confirm Password

[Submit](#)

6) Create Course Screen

Name

Author

Select author

New Author

Subtitle

Description

<> B I U a+ Aa

Create Course

7) Ask Mentor Sessions Question Screen

Ask a Question X

Create New question in "Forum By Jonathan"

Question Title :

Topic: Crowdfunding ▾

Notify me of follow-up comments via email

SUBMIT

8) Create Poll Screen



Add Topic

Share what's on your mind...

Poll Type

Multiple Choice

Drag and drop image in above section to insert image

Poll Choice


Poll Choice



ADD POLL

9) Create Question Screen

Ask Question



Add Topic

Share what's on your mind...

Poll Type Question

Drag and drop image in above section to insert image

ASK QUESTION

10) Create Topic Screen

Add Topic

Topic Title

Add topic title here

Topic Description

Topic Featured Image

Choose File No file chosen

Topic Theme Color

#333333

Add Topic

3.13 Data Dictionary

1] Table Name : Admin

Sr. No.	Field Name	Data Type	Description
1	User_id	Int(11)	Primary key of the table
2	User_name	Varchar(50)	Key to identify admin
3	Password	Varchar(12)	Admin password
4	Access_level	Varchar(20)	Access level of admin
4	User_first_name	Varchar(50)	First name of the user
5	User_last_name	Varchar(50)	Last name of the user

2] Table Name : Subscriber

Sr. No.	Field Name	Data Type	Description
1	User_id	Int(11)	Primary key of the table
2	User_name	Varchar(50)	Key to identify admin
3	Password	Varchar(12)	Admin password
4	User_first_name	Varchar(50)	First name of the user
5	User_last_name	Varchar(50)	Last name of the user
6	Is_premium_user	Boolean	Flag to set to premium users

7	User_stripe_account_no	Varchar(20)	Stripe account identifier
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3] Table Name : Mentor

Sr. No.	Field Name	Data Type	Description
1	User_id	Int(11)	Primary key of the table
2	User_name	Varchar(50)	Key to identify admin
3	Password	Varchar(12)	Admin password
4	Access_level	Varchar(20)	Access level of admin
4	User_first_name	Varchar(50)	First name of the user
5	User_last_name	Varchar(50)	Last name of the user

4] Table Name : Profile

Sr. No.	Field Name	Data Type	Description
1	Profile_id	Int(11)	Primary key of Profile
2	Profile_display_name	Varchar(50)	Display name of user
3	Profile_user_bio	Varchar(2048)	Bio information of user
4	Profile_display_image	Varchar(2048)	Display image of the user
5	Profile_modify_date	Date	Date of profile modification

6	Profile_user_website	JSON	Website information of user
7	Profile_user_university	JSON	University information of user
8	Profile_user_address	JSON	Address information of user
9	Profile_user_contact	JSON	Contact information of user
10	User_id	Int(11)	User_id to which profile belongs to
11	Campaign_resource	JSON	Campaign resources

5] Table Name : Campaign

Sr. No.	Field Name	Data Type	Description
1	Campaign_id	Int(11)	Primary key of campaign
2	Campaign_title	Varchar(50)	Title of the campaign
3	Campaign_blurb	Varchar(50)	Campaign Description
4	Campaign_create_date	Date	Date of campaign creation
5	Campaign_start_date	Date	Campaign start date
6	Campaign_end_date	Date	Campaign end date

7	Campaign_goal	Bigint(20)	Funding goal of campaign
8	Campaign_funded_amount	Bigint(20)	Amount funded to campaign
9	Campaign_featured	Boolean	Flag to set featured campaign
10	Campaign_category	JSON	Campaign categories
11	Campaign_resource	JSON	Campaign resources
12	Campaign_reward	JSON	Reward information for donors

6] Table Name : Donation

Sr. No.	Field Name	Data Type	Description
1	Transaction_id	Int(11)	Primary key of donation
2	Campaign_id	Int(11)	Campaign id of donation
3	Donation_amount	Bigint(20)	Donated Amount
4	Donor_id	Int(11)	User_id of the donor
5	Donation_date	Date	Date of donation
6	Donor_relation	Varchar(20)	Relation of donor with campaign owner
7	Donation_remark	Varchar(2048)	Remarks given at the time of donation

7] Table Name : Category

Sr. No.	Field Name	Data Type	Description
1	Category_id	Int(11)	Primary key of category
2	Category_name	Varchar(45)	Name of category
3	Category_description	Varchar(100)	Category description
4	Category_disabled	Boolean	Disable category flag
5	Category_created_date	Date	Date of category creation
6	Category_modified_date	Date	Date of category modification

8] Table Name : Course

Sr. No.	Field Name	Data Type	Description
1	Course_id	Int(11)	Primary key of course
2	Course_name	Varchar(45)	Name of course
3	Course_description	Varchar(100)	Course description
4	Course_image	Varchar(45)	Display image of course
5	Course_fee	Bigint(20)	Fees of course
6	Course_category	Int(11)	Category to which course belongs to
7	Course_content_resource	JSON	Course content resources

8	Course_visible	Boolean	Course visibility flag
9	Course_created_by	Int(11)	User id of admin who created course

9] Table Name : Course_content

Sr. No.	Field Name	Data Type	Description
1	Course_content_id	Int(11)	Primary key of course content
2	Course_content_title	Varchar(45)	Name of course content
3	Course_id	Int(11)	Course id of the course content
4	Course_content_published	Boolean	Display flag for course content

10] Table Name : Course_mentor

Sr. No.	Field Name	Data Type	Description
1	Course_mentor_id	Int(11)	Primary key of table
3	Course_id	Int(11)	Course id of the course
4	Mentor_id	Int(11)	User id of the mentor

11] Table Name : Post

Sr. No.	Field Name	Data Type	Description
1	Post_id	Int(11)	Primary key of post
2	Post_title	Varchar(45)	Post title
3	Post_content	Varchar(5120)	Post content
4	Post_created	Date	Date of creation
5	Post_modified	Date	Date of modification
6	Post_category_id	Int(11)	Category to which post belongs to
7	Post_topic	JSON	Post topic information
8	Post_status	Varchar(20)	Status of post
9	Post_comment_status	Varchar(20)	Comment status on post
10	Post_meta	Varchar(20)	Misc information about post
11	Post_type	Varchar(20)	Type of post
12	Post_approved_by	Int(11)	User id of admin who approved the post
13	Group_id	Int(11)	Group_id of the post if it's a group post
14	Post_author	Int(11)	Post author id

12] Table Name : Friend

Sr. No	Field Name	Data Type	Description
1	Friend_request_by	Int(11)	User id of the user who initiated friend request
2	Friend_request_to	Int(11)	User id of the user to whom friend request is sent
3	Friend_request_message	Varchar(100)	Message sent along with request
4	Friend_request_pending	Boolean	Friend request pending flag
5	Friend_request_accepted	Boolean	Friend request accept flag
6	Friend_request_date	Date	Date of request
7	Friend_request_response_date	Date	Date of response to the request

13] Table Name : Group

Sr. No.	Field Name	Data Type	Description
1	Group_id	Int(11)	Group table primary key
2	Group_name	Varchar(50)	Name of th group
3	Group_description	Varchar(256)	Description of group
4	Group_admin	Int(11)	User_id of admin who created group
5	Group_permission	Varchar(20)	Group permissions

14] Table Name : Group_member

Sr. No.	Field Name	Data Type	Description
1	Group_id	Int(11)	Group_id of group
3	User_id	Int(11)	User_id of the user
4	Group_joined	Date	Date of joining
5	Group_left	Date	Date at which user left the group

15] Table Name : Messages

Sr. No.	Field Name	Data Type	Description
1	Message_id	Int(11)	Message_id of Message

3	Message_from	Int(11)	User_id of the user who sent message
4	Message_to	Int(11)	User_id of user to which message was sent
5	Message_title	Varchar(100)	Title of message
6	Message_content	Varchar(5120)	Message content
7	Message_read	Boolean	Read message flag
8	Group_id	Int(11)	Group_id of group if it's a group message
9	Message_date	Date	Date of message

16] Table Name : Topic

Sr. No.	Field Name	Data Type	Description
1	Topic_id	Int(11)	Topic_id of Topic
3	Topic_title	Varchar(20)	Title of topic
4	Topic_description	Varchar(2048)	Description of topic
5	Topic_image	Varchar(2048)	Source path of topic image
6	Topic_color	Char(6)	Hex color code of topic color

17] Table Name : Comment

Sr. No.	Field Name	Data Type	Description
1	Comment_id	Int(11)	Primary key of comment
2	Comment_post_id	Int(11)	Post id of comment
3	Comment_content	Varchar(5120)	Comment content
4	Comment_created	Date	Date of creation
5	Comment_modified	Date	Date of modification
6	Comment_approved	Boolean	Comment approval flag
7	Comment_author	Int(11)	Comment author id
8	Comment_status	Varchar(20)	Status of comment
9	Comment_parent	Int(11)	Parent Comment id
10	Comment_meta	Varchar(20)	Misc information about comment
11	Comment_type	Varchar(20)	Type of comment

18] Table Name : Project

Sr. No.	Field Name	Data Type	Description
1	Project_id	Int(11)	Primary key of Project
2	Project_title	Int(11)	Title of project
3	Project_description	Varchar(5120)	Project description

4	Project_created	Date	Date of creation
5	Project_modified	Date	Date of modification
6	Project_owner	Int(11)	User id of project owner
7	Project_resource	JSON	Project resources
8	Project_goal	Varchar(20)	Goal of project
9	Project_end_date	Date	Project end date
10	Project_status	Varchar(20)	Status of project

19] Table Name : Project_member

Sr. No.	Field Name	Data Type	Description
1	Project_id	Int(11)	Project_id of Project
3	Member_id	Int(11)	User_id of project member
4	Group_id	Int(11)	Group_id of project

20] Table Name : Task

Sr. No.	Field Name	Data Type	Description
1	Task_id	Int(11)	Primary key of Task
2	Project_id	Int(11)	Project_id of project
3	Task_title	Varchar(100)	Task title

4	Task_description	Varchar(5120)	Task description
5	Task_created	Date	Date of creation
6	Task_modified	Date	Date of modification
9	Task_resource	JSON	Task resources
10	Task_goal	Varchar(20)	Goal of Task
11	Task_end_date	Date	Task end date
12	Task_comment	Varchar(20)	Comments on task
13	Task_status	Varchar(20)	Status of task

21] Table Name : Task_user

Sr. No.	Field Name	Data Type	Description
1	Task_id	Int(11)	Task_id of Task
3	Member_id	Int(11)	User_id of user to whom task was assigned to
4	Group_id	Int(11)	Group_id of group to whom task was assigned to

3.14 Table Specifications

1] Table Name : Admin

Sr. No.	Field Name	Data Type	Constraint	Description
1	User_id	Int(11)	PK	Primary key of the table
2	User_name	Varchar(50)	Not null	Key to identify admin
3	Password	Varchar(12)	Not null	Admin password
4	Access_level	Varchar(20)	Not null	Access level of admin
4	User_first_name	Varchar(50)		First name of the user
5	User_last_name	Varchar(50)		Last name of the user

2] Table Name : Subscriber

Sr. No.	Field Name	Data Type	Constraint	Description
1	User_id	Int(11)	PK	Primary key of the table
2	User_name	Varchar(50)	Not null	Key to identify admin
3	Password	Varchar(12)	Not null	Admin password
4	User_first_name	Varchar(50)		First name of the user

5	User_last_name	Varchar(50)		Last name of the user
6	Is_premium_user	Boolean	Not null Default : False	Flag to set to premium users
7	User_stripe_account_no	Varchar(20)		Stripe account identifier

3] Table Name : Mentor

Sr. No.	Field Name	Data Type	Constraint	Description
1	User_id	Int(11)	PK	Primary key of the table
2	User_name	Varchar(50)	Not null	Key to identify admin
3	Password	Varchar(12)	Not null	Admin password
4	Access_level	Varchar(20)	Not null	Access level of admin
4	User_first_name	Varchar(50)		First name of the user
5	User_last_name	Varchar(50)		Last name of the user

4] Table Name : Profile

Sr. No	Field Name	Data Type	Constraint	Description
1	Profile_id	Int(11)	PK	Primary key of Profile
2	Profile_display_name	Varchar(50)		Display name of user
3	Profile_user_bio	Varchar(2048)		Bio information of user
4	Profile_display_image	Varchar(2048)		Display image of the user
5	Profile_modify_date	Date		Date of profile modification
6	Profile_user_website	JSON		Website information of user
7	Profile_user_university	JSON		University information of user
8	Profile_user_addresses	JSON		Address information of user
9	Profile_user_contact	JSON		Contact information of user
10	User_id	Int(11)	FK Not null	User_id to which profile belongs to

11	Campaign_resource	JSON		Campaign resources
----	-------------------	------	--	--------------------

5] Table Name : Campaign

Sr. No	Field Name	Data Type	Constraint	Description
1	Campaign_id	Int(11)	PK	Primary key of campaign
2	Campaign_title	Varchar(50)	Not null	Title of the campaign
3	Campaign_blurb	Varchar(50)	Not null	Campaign Description
4	Campaign_create_date	Date	Not null	Date of campaign creation
5	Campaign_start_date	Date	Not null	Campaign start date
6	Campaign_end_date	Date	Not null	Campaign end date
7	Campaign_goal	Bigint(20)	Not null	Funding goal of campaign
8	Campaign_funded_amount	Bigint(20)	Not null Default : 0	Amount funded to campaign
9	Campaign_featured	Boolean	Not null Default : False	Flag to set featured campaign
10	Campaign_category	JSON	Not null	Campaign categories

11	Campaign_resource	JSON		Campaign resources
12	Campaign_reward	JSON		Reward information for donors.

6] Table Name : Donation

Sr. No	Field Name	Data Type	Constraint	Description
1	Transaction_id	Int(11)	PK	Primary key of donation
2	Campaign_id	Int(11)	FK Not null	Campaign id of donation
3	Donation_amount	Bigint(20)	Not null Check : Donation_amount > 0	Donated Amount
4	Donor_id	Int(11)	FK Not null	User_id of the donor
5	Donation_date	Date	Not null	Date of donation
6	Donor_relation	Varchar(20)		Relation of donor with campaign owner
7	Donation_remark	Varchar(2048)		Remarks given for donation

7] Table Name : Category

Sr. No	Field Name	Data Type	Constraint	Description
1	Category_id	Int(11)	PK	Primary key of category
2	Category_name	Varchar(45)	Not null	Name of category
3	Category_description	Varchar(100)		Category description
4	Category_disabled	Boolean	Not null Default : False	Disable category flag
5	Category_created_date	Date	Not null	Date of category creation
6	Category_modified_date	Date		Date of category modification

8] Table Name : Course

Sr. No	Field Name	Data Type	Constraint	Description
1	Course_id	Int(11)	PK	Primary key of course
2	Course_name	Varchar(45)	Not null	Name of course
3	Course_description	Varchar(100)	Not null	Course description

				n
4	Course_image	Varchar(45)	Not null	Display image of course
5	Course_fee	Bigint(20)	Not null Default : 0	Fees of course
6	Course_category	Int(11)		Category to which course belongs to
7	Course_content_resource	JSON		Course content resources
8	Course_visible	Boolean	Not null Default : False	Course visibility flag
9	Course_created_by	Int(11)	FK Not null	User id of admin who created course

9] Table Name : Course_content

Sr. No	Field Name	Data Type	Constraint	Description
1	Course_content_id	Int(11)	PK	Primary key of course content
2	Course_content_title	Varchar(45)	Not null	Name of course

				content
3	Course_id	Int(11)	FK Not null	Course id of the course content
4	Course_content_published	Boolean	Not null Default : False	Display flag for course content

10] Table Name : Course_mentor

Sr. No.	Field Name	Data Type	Constraint	Description
1	Course_mentor_id	Int(11)	PK	Primary key of table
3	Course_id	Int(11)	FK Not null	Course id of the course
4	Mentor_id	Int(11)	FK Not null	User id of the mentor

11] Table Name : Post

Sr. No.	Field Name	Data Type	Constraint	Description
1	Post_id	Int(11)	PK	Primary key of post
2	Post_title	Varchar(45)		Post title
3	Post_content	Varchar(5120)		Post content
4	Post_created	Date	Not null	Date of creation

5	Post_modified	Date		Date of modification
6	Post_category_id	Int(11)		Category to which post belongs to
7	Post_topic	JSON		Post topic information
8	Post_status	Varchar(20)	Not null Default : draft	Status of post
9	Post_comment_status	Varchar(20)	Not null Default : open	Comment status on post
10	Post_meta	Varchar(20)		Misc information about post
11	Post_type	Varchar(20)	Not null	Type of post
12	Post_approved_by	Int(11)	FK Not null	User id of admin who approved the post
13	Group_id	Int(11)		Group_id of the post if it's a group post
14	Post_author	Int(11)	FK Not null	Post author id

12] Table Name : Friend

Sr. No.	Field Name	Data Type	Constraint	Description
1	Friend_request_by	Int(11)	FK Not null	User id of the user who initiated friend request
2	Friend_request_to	Int(11)	FK Not null	User id of the user to whom friend request is sent
3	Friend_request_message	Varchar(100)		Message sent along with request
4	Friend_request_pending	Boolean	Not null Default : True	Friend request pending flag
5	Friend_request_accepted	Boolean	Not null Default : False	Friend request accept flag
6	Friend_request_date	Date	Not null	Date of request
7	Friend_request_response_date	Date		Date of response to the request

13] Table Name : Group

Sr. No.	Field Name	Data Type	Constraint	Description
1	Group_id	Int(11)	PK	Group table primary key
2	Group_name	Varchar(50)	Not null	Name of the group
3	Group_description	Varchar(256)		Description of group
4	Group_admin	Int(11)	FK Not null	User_id of admin who created group
5	Group_permissions	Varchar(20)	Not null	Group permissions

14] Table Name : Group_member

Sr. No.	Field Name	Data Type	Constraint	Description
1	Group_id	Int(11)	FK Not null	Group_id of group
3	User_id	Int(11)	FK Not null	User_id of the user
4	Group_joined	Date	Not null	Date of joining
5	Group_left	Date		Date at which user left the group

15] Table Name : Messages

Sr. No	Field Name	Data Type	Constraint	Description
1	Message_id	Int(11)	PK	Message_id of Message
3	Message_from	Int(11)	FK Not null	User_id of the user who sent message
4	Message_to	Int(11)	FK Not null Default : 0	User_id of user to which message was sent
5	Message_title	Varchar(100)	Not null	Title of message
6	Message_content	Varchar(5120)		Message content
7	Message_read	Boolean	Not null Default : False	Read message flag
8	Group_id	Int(11)	FK Not null Default : 0	Group_id of group if it's a group message
9	Message_date	Date	Not null	Date of message

16] Table Name : Topic

Sr. No	Field Name	Data Type	Constraint	Description
1	Topic_id	Int(11)	PK	Topic_id of Topic
3	Topic_title	Varchar(20)	Not null	Title of topic
4	Topic_description	Varchar(2048)		Description of topic
5	Topic_image	Varchar(2048)		Source path of topic image
6	Topic_color	Char(6)	Not null Default : #333	Hex color code of topic color

17] Table Name : Comment

Sr. No	Field Name	Data Type	Constraint	Description
1	Comment_id	Int(11)	PK	Primary key of comment
2	Comment_post_id	Int(11)	FK Not null	Post id of comment
3	Comment_content	Varchar(5120)	Not null	Comment content
4	Comment_created	Date	Not null	Date of creation
5	Comment_modified	Date		Date of modification

6	Comment_approved	Boolean	Not null Default : True	Comment approval flag
7	Comment_author	Int(11)	FK Not null	Comment author id
8	Comment_status	Varchar(20)	Not null	Status of comment
9	Comment_parent	Int(11)	Not null Default : 0	Parent Comment id
10	Comment_meta	Varchar(20)		Misc information about comment
11	Comment_type	Varchar(20)	Not null	Type of comment

18] Table Name : Project

Sr. No.	Field Name	Data Type	Constraint	Description
1	Project_id	Int(11)	PK	Primary key of Project
2	Project_title	Int(11)	Not null	Title of project
3	Project_description	Varchar(5120)		Project description
4	Project_created	Date	Not null	Date of creation
5	Project_modified	Date		Date of modification
6	Project_owner	Int(11)	FK Not null	User id of project

				owner
7	Project_resource	JSON		Project resources
8	Project_goal	Varchar(20)	Not null	Goal of project
9	Project_end_date	Date	Not null	Project end date
10	Project_status	Varchar(20)	Not null	Status of project

19] Table Name : Project_member

Sr. No.	Field Name	Data Type	Constraint	Description
1	Project_id	Int(11)	FK Not null	Project_id of Project
3	Member_id	Int(11)	FK Not null Default : 0	User_id of project member
4	Group_id	Int(11)	FK Not null Default : 0	Group_id of project

20] Table Name : Task

Sr. No.	Field Name	Data Type	Constraint	Description
1	Task_id	Int(11)	PK	Primary key of Task
2	Project_id	Int(11)	FK Not null	Project_id of project
3	Task_title	Varchar(100)	Not null	Task title

4	Task_description	Varchar(5120)		Task description
5	Task_created	Date	Not null	Date of creation
6	Task_modified	Date		Date of modification
9	Task_resource	JSON		Task resources
10	Task_goal	Varchar(20)	Not null	Goal of Task
11	Task_end_date	Date	Not null	Task end date
12	Task_comment	Varchar(20)		Comments on task
13	Task_status	Varchar(20)	Not null	Status of task

21] Table Name : Task_user

Sr. No.	Field Name	Data Type	Constraint	Description
1	Task_id	Int(11)	FK Not null	Task_id of Task
3	Member_id	Int(11)	FK Not null Default : 0	User_id of user to whom task was assigned to
4	Group_id	Int(11)	FK Not null Default : 0	Group_id of group to whom task was assigned to

3.15 Test Procedures and Implementation

Testing Introduction :

Testing is the method of checking whether the software is performing the given task successfully as expected or not. The expected speed, performance, accuracy and expected time should be taken into consideration while testing.

Testing Objectives :

- Testing is a process of executing a program with the intent of finding an error.
- A good test case is one that has a high probability of finding an undiscovered error.
- A successful test case is the one that uncovers an error which could restrict the system to behave in expected manner.
- Our objective is to design tests that systematically uncover different classes of errors and do so with a minimum amount of time and effort.

Testing Methods :

- **Unit Testing :**

A Unit testing focuses verification efforts on the smallest unit of software design the module. The unit test is normally white box oriented and the step can be conducted in parallel formultiple modules. In unit testing the module interface was tested to ensure that information properly flows into and out of a program unit under test . On testing individual units resultswere satisfactory and thus the accuracy and reliability of the unit was tested.

- **Integration Testing:**

Although each module is verified individually during modules testing, it is important todetermine if the modules are working properly when linked together. This is also referred to as integration testing or also as interfacing. In this step output is compared with the manuallycalculated output. This comparison gives the result of system testing. This finally ensures that the

system is functioning properly. On testing the results were satisfactory and thus the accuracy and reliability of the integrated software was tested.

- **System Testing :**

It is the testing of the whole system prior to delivery. The purpose of system testing is to identify defects that will only surface when a complete system is assembled. i.e. defects that cannot be attributed to individual components or the interaction between two components. System testing includes testing of performance, security, configuration sensitivity, start up and recovery from failure modes. On testing the results were satisfactory and thus the accuracy and reliability of the system was tested.

- **GUI Testing :**

Graphical user interface testing is the process of testing the user interface of the application to ensure it meets its

specifications. In addition to functionality, GUI testing evaluates design elements such as layout, colors, font sizes, labels, text boxes, text formatting, captions, buttons, lists, icons, links and content. On testing the results were satisfactory and thus the accuracy of UI was tested.

- **Platform Testing :**

For web-application, platform testing means four main points, viz. Web forms display correctly on all supported browsers and supported versions of those browsers. The web application appropriately handles unsupported browser versions, such as by displaying instructions for downloading the required version. The web application has acceptable performance over slower forms of network connections such as modems. On testing the results were satisfactory and thus the accuracy and reliability of the system was tested.

- **Performance Testing :**

Performance testing, a non-functional testing technique performed to determine the system parameters in terms of responsiveness and stability under various workload. Performance testing measures the quality attributes of the system, such as scalability, reliability and resource usage.

- **Load testing :**

It is the simplest form of testing conducted to understand the behavior of the system under a specific load on the database, application server, etc.

- **Stress testing :**

It is performed to find the upper limit capacity of the system and also to determine how the system performs if the current load goes well above the expected maximum.

- **Security Testing :**

Security testing is a process intended to reveal flaws in the security mechanisms of a system that protect data and maintain functionality as intended. Typical security requirements may include specific elements of confidentiality, integrity, authentication, availability, authorization and non-repudiation. On testing the results were satisfactory and thus the security of the system was tested.

Test Cases :

Sr.No.	Test Step	Test Data	Expected Result	Actual Result	Status
1] Login					
1	Login Page	Leave all fields blank	Error message should appear for username and password field	Error message displayed	Pass
2	Username	Leave username blank and enter password	Error message should appear to enter valid username	Error message displayed	Pass
3	Password	Leave password blank and enter username	Error message should appear to enter valid password	Error message displayed	Pass
4	Username	Enter invalid username	Error message should appear to enter valid user name	Error message displayed	Pass
5	Username	Enter valid username	It should allow to proceed	It allowed proceeding	Pass
6	Password	Enter password	Password field	Password displayed	Pass

			should show password in encrypted format	in encrypted format	
7	Password	Enter wrong password	Error message should appear for wrong password	Error message displayed	Pass
2] Campaign					
1	Campaign Title	Leave Campaign Title field blank	Error message should appear saying "Campaign Title cannot be empty"	Error message displayed	Pass
2	Campaign Category	Leave campaign category field empty	Error message should appear saying "Campaign should belong to atleast one category"	Error message displayed	Pass
3	Campaign Blurb	Leave Campaign blurb field empty	Error message should appear	Error message displayed	Pass

			saying "Campaign blurb cannot be empty"		
4	Campaign Goal	Leave Campaign goal field empty	Error message should appear saying "Campaign goal field cannot be empty"	Error message displayed	Pass
5	Campaign Start Date	Leave Campaign start date field unchanged	Alert message should appear saying "Are you sure you want to start campaign today?"	Alert message displayed	Pass
3] Course					
1	Course Name	Leave Course name field empty	Error message should appear saying "Course name field cannot be empty"	Error message displayed	Pass
2	Course	Leave	Error	Error	Pass

	Description	course description field empty	message should appear saying "Course description field cannot be empty"	message displayed	
3	Course Image	Leave course image field empty	Error message should appear saying "Course image field cannot be empty"	Error message displayed	Pass
4	Course category	Leave course category field unchanged	Alert message should appear saying "Are you sure you don't want to add any category to this course?"	Alert message displayed	Pass
5	Course Fee	Leave Course fee field unchanged	Error message should appear saying "Course fee cannot	Error message displayed	Pass

			be \$0.00"		
4] Post					
1	Add Poll	Click Add poll button without entering any data in any field	Button should be disabled	Button disabled	Pass
2	Poll type	Click Poll type button	Button should be disabled	Button disabled	Pass
3	Poll Choice	Enter data in Poll section	Error message should appear saying "Poll choice cannot be empty"	Error message displayed	Pass
4	Post Topic	Leave post topic field unchanged	Alert message should appear saying "Are you sure you want to proceed without selecting topic?"	Alert message displayed	Pass
5	Post Title	Click Add more option and select Post	Error message should appear	Error message displayed	Pass

		type as Post and then click Post button	saying “Post title field cannot be empty”		
--	--	---	---	--	--

Chapter 4

USER MANUAL

4.1 User Manual

User Manual is a technical communication document intended to give assistance to people using a particular system. It is usually written by a technical writer, although user guides are written by programmers, project managers, or other technical staff.

The system users are –

- 1) System Administrators
- 2) Subscribers
- 3) Premium Subscribers
- 4) Mentors

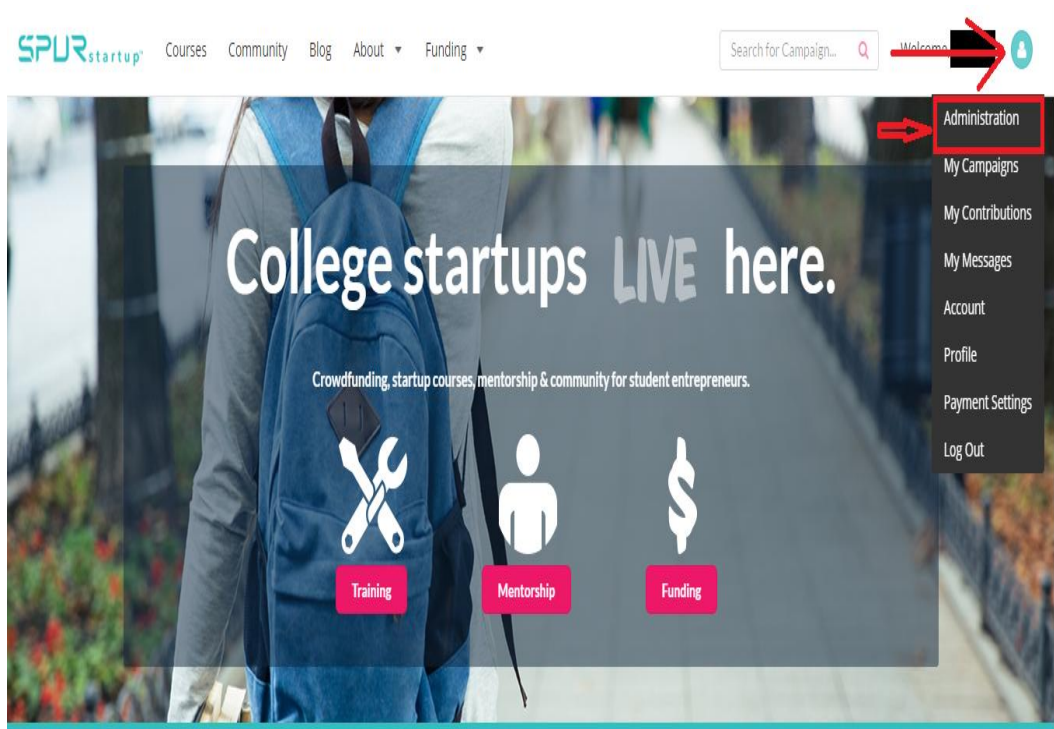
- **View Reports :**

As a system administrator admin can view various reports in admin dashboard.

Steps to visit report page are as follows :

- Login in to the system using admin credentials.
- Click on the user menu tray in top right corner of the navigation bar.

- Click on the first tab i.e. “Administration” to view Admin dashboard page.



- **Visit contact us page**
 - Contact us is a facility provided by the system to users of the system to reach out to the SpurStartUp Team in case of any queries.
 - To visit contact us click on the question mark floating bubble on screen.

- System will direct user to the contact us page after that.

Funding for a Cause

10% of the funds raised by GSEA students will go to provide entrepreneurship education for low-income youth.

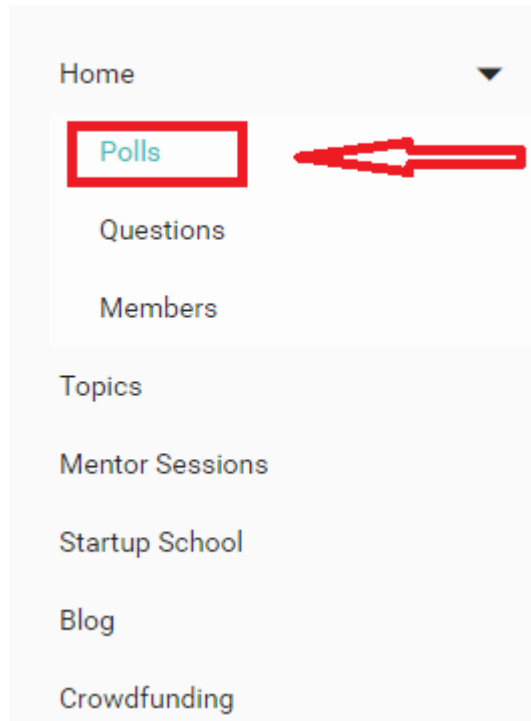
[View Campaigns](#)



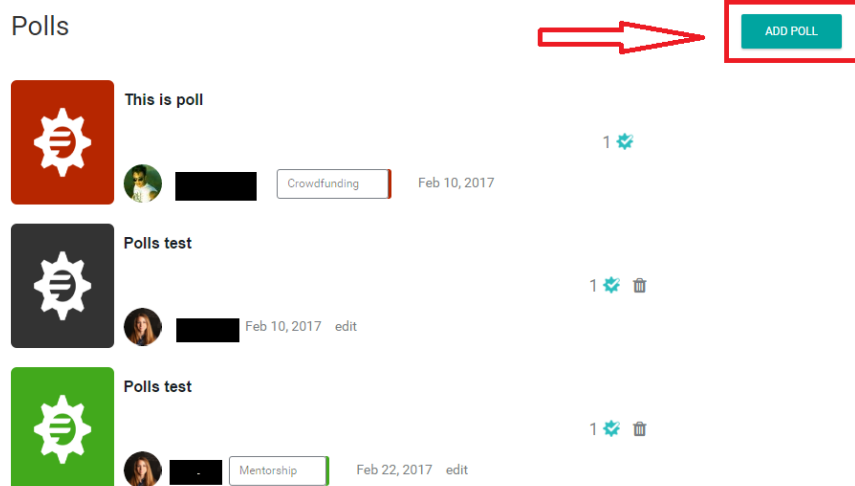
A dark grey banner for a 'CROWDFUNDING INCUBATOR'. On the left, the text 'NEW!' is in a yellow speech bubble, and 'CROWDFUNDING INCUBATOR' is in large white letters. The background is decorated with dollar signs and hearts. On the right, the text 'We've done the work for you!' is followed by 'From marketing to rewards, we'll take you through every step to launch your campaign'. A pink 'Learn More' button is below. A black chat bubble overlay on the right contains the text 'Have questions? Want to get involved?' and a red arrow pointing to a question mark icon.

- **Create Poll**

- Subscribers can create poll on business forum to which other users of the system can vote to.
- To create poll click on Poll Tab on the sidebar of the business forum



- Click on Add Poll button to create new poll.



4.2 Operations Manual

Operations Manual guides the users of the system to perform the functions of the system.

Operations Manual contains the detailed information of sequence of instructions to make use of certain function of the system.

SpurStartUp Operations Manual contains the essential information to make use of features made available to the users.

- **Export reports to csv file :**
 - Visit admin dashboard page (refer User Manual)
 - Select reports tab on dashboard.
 - Navigate to the report whose data is to be exported to csv file.
 - Click on Export to CSV button below the report.
 - Browser will download a csv file which can be found in your Downloads folder.

Student Year Analysis

Student Year	No. of Students
High School	0
Freshman	2
Sophomore	3
Junior	0
Senior	4
Alumni	2



- **Contact SpurStartUp Team :**

- Navigate to contact us page of SpurStartUp (refer User Manual).
- Enter name in name field
- Enter your email in email field
- Enter your contact number in contact field
- Enter your concern in short in subject field
- Enter your concern in detail in message field
- Once all the fields are filled click on send button and SpurStartUp team will reach out to you within 48 hours.

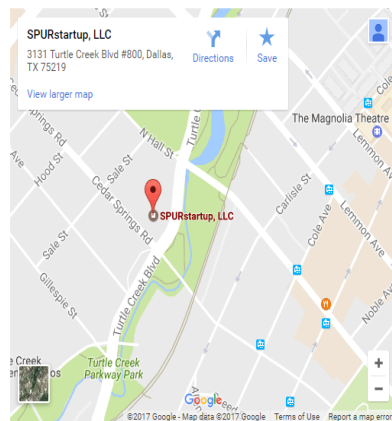
Contact Us

Office
3131 Turtle Creek Blvd. #800
Dallas, TX 75219

General Support
info@spurstartup.com

Course Support
Askme@spurstartup.com

Google Map



Enter name here

Name:

Enter email here

Email:

Enter contact number here

Contact No:

Enter subject of your message

Subject:

Message:

Type your message here

Your message

Click here

- **Create Poll**

- Subscribers on the business forum have facility to create polls.
- To create a poll visit the create poll page (refer User Manual).
- Once on create poll page Enter poll title in title section.

- Enter poll choices in both poll choice fields. Note that a poll must have at least 2 poll choices.
- More poll choices can be added by clicking on the plus symbol at the bottom.
- A topic can be linked to a poll if desired using add topic dropdown at top.
- Once all the fields are filled click on Add Poll button to create poll.



←← Add topic here
 ←← Add Poll title here
 Multiple Choice

Drag and drop image in above section to insert image

Poll Choice **←← Add Poll choice here**

Poll Choice

+ ←← Click here to add more choices

ADD POLL

4.3 Programme Specification:**Module : Poll**

Program name	Constraint	Description
Create Poll	1)The required fields must not be null. 2) Poll must have atleast 2 poll choices.	To create a poll , subscriber is given a create poll form.

Program name	Constraint	Description
Edit Poll	The required fields must not be null.	To edit a poll , subscriber is given an edit poll form.All the fields are filled with the data.

Module : Campaign

Program name	Constraint	Description
Create Campaign	The required fields must not be null.Campaign start date must be a date in future.	To create a campaign , subscriber is given a create poll form.

Module : Reports

Program name	Constraint	Description
Reports	Admin must be logged in with Google analytics account to view all reports.	To display various statistics regarding campaigns and users this program is used.

Module : Question

Program name	Constraint	Description
Answer Question	The question must be approved by admin to answer it.	To add answer to the question subscriber is given an add answer form.

Module : Topic

Program name	Constraint	Description
Add Topic	The required fields must not be null. Logged in user must an admin	To create a topic, admin is given a add topic form.

Drawbacks and Limitations :

- The system is a web-based application, hence if the internet connectivity is not available, the system cannot be accessed.
- Visitors of the system cannot donate to a campaign without creating an account.

Proposed Enhancements

The system satisfies all the requirements of the client however there are few proposed enhancements to the system. The additional functionalities that will be added to the system in future are :

- Add Course Assessment structure to the LMS through which mentors can assess the students of the course.
- Add sub-domains to the system i.e. users from different groups have access to different features.
- Add welcome tour to the website to guide the users who visit the website for the first time.
- Add ability to export reports to other file formats such as pdf, .doc etc.

Conclusion

The proposed system titled “SpurStartUp” would be a collection of all three components of the system i.e. Crowdfunding , LMS , Business forum which will help the educational organizations build more and more young entrepreneurs. All the requirements stated by the Client Company have been addressed in this software. The entire User Interfaces in the software is easy to use and simple to understand. Any user can easily create a campaign to get funding for his venture. Also users can enroll for various courses offered by SpurStartUp team. A platform like Business Forum is made available to users by this system that helps users to stay in touch with the business management domain. It makes the system more interesting to work.

The software allowed me to learn new technologies like

1. Php 5.6
2. Wordpress rapid development framework
2. Eclipse Neon Edition IDE
3. AngularJS 1.0

4. Javascript

5. HTML5

6. CSS3

7. jQuery

8. Bootstrap framework

It allowed me to build user interface more dynamic. It gives me tremendous confidence to work in Software company. It teaches me to work in a team and gives me new ideas.

Bibliography

Books

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- Functional Javascript by Michael Fogus , O'Reilly Media

Sites

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- <http://php.net/manual/en/index.php>
- <https://codex.wordpress.org/>
- <https://www.tutorialspoint.com/jquery/>

ANNEXURES

Annexure 1

User Interface Screens

1) Login Screen

Log in

Email

Password

[Forgot Password / Activate Account](#)

Log in

New to SPURstartup?

Please fill out the form to create a new account.

First Name

Last Name

Email

Password

Confirm Password

University

I am

Student Alumni Mentor

By checking this box, I agree to the [Terms of Service & Privacy Statement](#)

Create an Account

2) View All Campaigns

The screenshot displays the SPURStartup website interface. At the top, there is a navigation bar with links for Courses, Community, Blog, About, and Funding. A search bar and a user greeting 'Welcome, Mayuri' are also present. Below the navigation is a hero banner with the text 'Start exploring different possibilities!' and an image of a laptop on a table. The main content area is a grid of campaign cards, each featuring a campaign image, name, creator, description, and a progress bar showing pledged and funded amounts. A sidebar on the left provides filters for categories (e.g., Film & Video, Art, Food, Health, Gaming, Design, Business, Education, Fashion, Journalism, Music, Photography, Publishing, Sports, Technology) and location. A footer at the bottom contains site information, a 'Need help?' section with links to FAQ, Terms, Privacy Policy, and Contact, a 'FREE Download Crowdfunding Guide' button, and social media icons for Facebook, Twitter, LinkedIn, Instagram, Google+, and YouTube. The copyright notice at the bottom reads '© 2016 SPURStartup All Rights Reserved.'

3) Validation

Poll Choice cannot be empty.



Add Topic

How do you feel about using mass emails to get backers?

Poll Type

Multiple Choice

Drag and drop image in above section to insert image

Poll Choice

Poll Choice



ADD POLL

4) Blog Post

The screenshot shows a web browser displaying a blog post on the SpurStartUp website. The browser's address bar shows the URL 'SPURstartUp-SandBox'. The website's navigation menu includes 'STARTUP SCHOOL', 'BLOG', 'CROWDFUNDING', and 'ABOUT'. The main content area features a large image of a rocky cliff face, a video player, and a comment section. The sidebar on the right contains sections for 'TRENDING MENTOR QUESTIONS', 'NEWEST MENTOR QUESTIONS', and 'CATEGORIES'. The footer includes 'About SPURstartUp', 'Blog Categories', and 'Members'.

Blog Post Details:

- Title:** Latest from Apple: Apple Watch Review
- Author:** Melissa Smart
- Posted on:** July 24, 2015
- Text:** The Apple Watch is now on the wrists of members of the general public for the first time, and opinions about its usefulness are flying fast and furious. Here at TechCrunch, we've been sharing our thoughts in an ongoing diary, featuring daily entries describing what it's like to use the Watch as we become more familiar with the new gadget.
- Video:** A video player showing a close-up of the Apple Watch.
- Comments:** One comment by Dan Cortese: "nice" (January 3, 2016 at 6:42 pm).

Footer Information:


- About SPURstartUp:** About SPURstartUp, Event Calendar, FAQ, Privacy Policy, Terms of Use, Contact Us.
- Blog Categories:** #wisewords, Crowdfunding Tips, LOL, Startup School, Student Spotlight, Zentreprenuer.
- Members:**
 - NEWEST:** Martin Garcia (registered 1 week, 6 days ago), Jade Thompson (registered 1 week, 6 days ago), Mayur Kathale (registered 1 month, 1 week ago), Mayur Kathale (registered 1 month, 1 week ago), admin (registered 1 month, 2 weeks ago).
 - ACTIVE:** (empty)
 - POPULAR:** (empty)

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5) Profile

SPURstartUp Courses Community Blog About Funding

Search for Campaign... Welcome

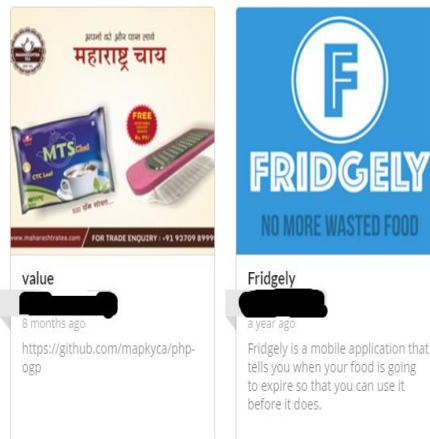


Websites
facebook
University(s)
• Collin College
• GSEA-Dallas
• Rice University

Contact

Edit

Campaigns Backed 2 Campaigns Created 2



value
8 months ago
<https://github.com/mapkyca/php-ogp>

Fridgely
a year ago
Fridgely is a mobile application that tells you when your food is going to expire so that you can use it before it does.

★

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Crowdfunding Guide

f t in i+ g @

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6) Edit Profile



[Profile Details](#) [Companies](#) [Addresses](#) [Phone Numbers](#) [Account Settings](#)

Edit Profile Details

Profile Image

JPEG, PNG, GIF or BMP - 50MB file limit
Image should be at least 200x200



First Name

Last Name

Biography

Do not worry if you cannot think of anything to say
you can change your bio later on.

/300 max characters

College(s)/Organizations

Or if you don't see your college...

College Year

Profile Links

Add social links to your profile. You can have a
maximum of 5 links.



7) View Polls

Polls

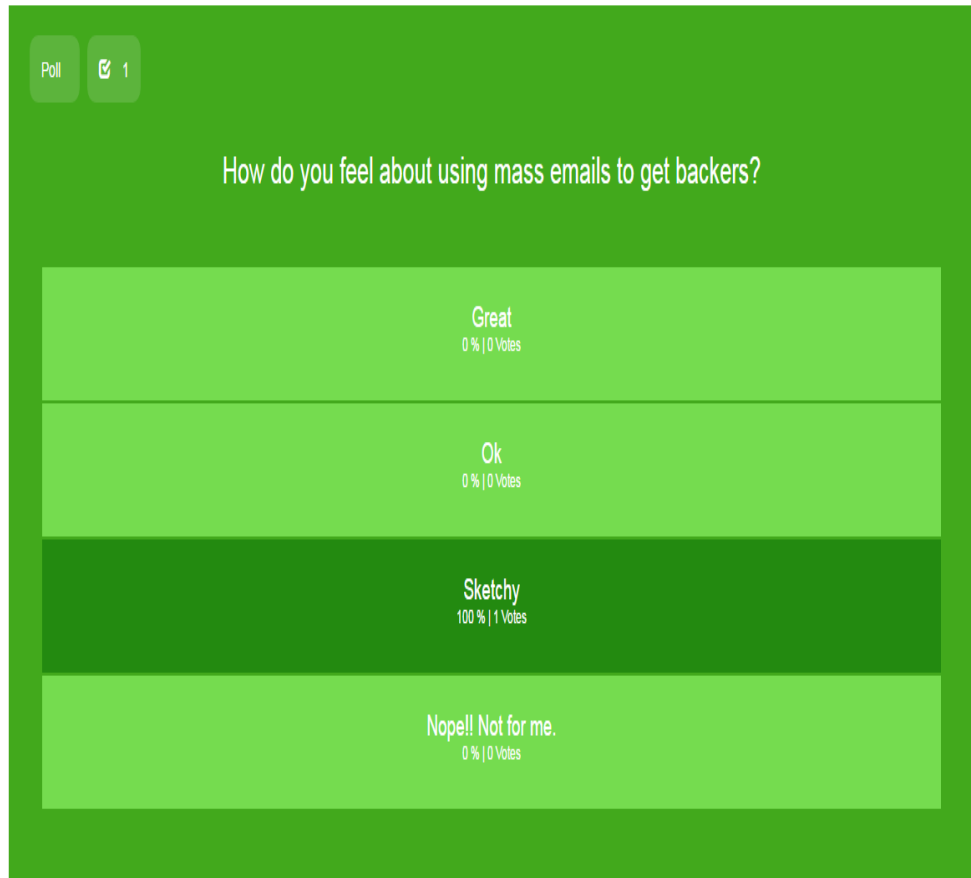
ADD POLL

How do you feel about using mass emails to get backers?

1


admin Mentorship Mar 23, 2017 edit



8) Poll




9) View Questions


Questions ASK QUESTION

 What is your biggest goals for your startup this semester?

5  

 admin Startup 101 Startup 101 Mar 23, 2017

10) Question



admin

Question Startup 101


Is it ok to sacrifice your GPA for your startup ?

5 have answered

Share your answer


Updated Mar 23, 2017

5 Answers




Mayur Kathale
Notification test

Delete




Mayur Kathale
When this editor appears when someone clicks "share your answer"it should appear between the existing comments and the question not below the comments

Show more
Delete




admin
When this editor appears when someone clicks "share your answer"it should appear between the existing comments and the question not below the comments

Show more
Delete Edit



admin
I would also have the responses limited to 3 line and have "show more..." for longer responses, unless on that specific questions page.

Delete Edit



admin
Lets hid this editor below the questions until they click on the "share you answer" button above.

We also should make the box responsive to the length of the comment, having the scroll bars on the side







Show more
Delete Edit

11) Admin approval for Post

The screenshot shows the WordPress Admin Dashboard for a user named 'Howdy, admin'. The dashboard is divided into a left sidebar with navigation menus and a main content area. The main content area is titled 'Dashboard' and contains several widgets. The 'Pending Poll Approval' widget is expanded, showing a poll question: '1. How do you feel about using mass emails to get backers?'. The poll has three options: 'Great', 'Ok', and 'Nopel! Not for me.'. There are 'Approve' and 'Deny' buttons below the poll. The 'Pending Question Approval' widget is also expanded, showing a question: '1. Is it ok to sacrifice your GPA for your startup?'. There are 'Approve' and 'Deny' buttons below the question. The dashboard also shows other widgets like 'At a Glance', 'Quick Draft', 'Activity', 'WordPress News', 'Recent Visual Form Builder Entries', 'News from Modern Tribe', and 'Right Now in Forums'. The bottom of the dashboard has a footer with the text 'Thank you for creating with WordPress.' and 'Version 4.7.3'.

12) Topics

Topics

	Crowdfunding Discover how build, launch and run a killer campaign	2
	Non-Profits For entrepreneurs that want to give back.	0
	MONEY MATTERS Everything you need to know about money and your startup. From forecasting, to budgeting, to finding an investor.	0
	Mentorship Get career- (and sometimes life-) saving advice. Ask questions and find a mentors here!	1
	Startup 101 Help for launching your dream business.	3
	Meet & Greet Get to know other members in our community.	0

13) View Courses

The screenshot shows the SPURstartup website interface for viewing courses. At the top left is the SPURstartup logo. At the top right are 'Login' and 'Sign Up' buttons. Below the header, there are two filter buttons: 'Category: All' and 'Author: All'. To the right is a search bar with the placeholder text 'Find a course' and a magnifying glass icon. The main content area displays three course cards:

- SPURstartup Orientation**: The card features a blue grid background with the SPURstartup logo and the word 'Orientation' in red script. The description reads: 'Get a private startup consultation & discover your best path to startup success.' The price is listed as 'FREE'.
- FirstGear**: The card features a yellow gear icon and the text 'FirstGear' in yellow. The description reads: 'Everything you need to know to get started to build your business.' The price is listed as '\$49'.
- Crowdfunding Incubator**: The card features a network diagram with red hearts and blue dollar signs. The text 'CROWDFUNDING INCUBATOR' is in bold black. The description reads: 'Raise money for your startup & start the life you've always wanted in just 4 weeks.' The price is listed as '\$59'.

At the bottom of the page, there is a copyright notice '© SPURstartup' on the left and links for 'Terms of Use' and 'Privacy Policy' on the right.

14) Course Content

The screenshot displays the course content interface for 'SPURstartup Orientation'. On the left sidebar, the course title is shown with a progress bar at 100% complete. Below this are menu items for 'Class Curriculum' and 'Your Instructor'. The main content area is titled 'Class Curriculum' and features a prominent pink button labeled 'Start next lecture >'. Below the button is a list of seven curriculum items, each preceded by a checkmark icon, indicating completion: 'Welcome!', 'Let's Get to Know You!', 'Your Toolkit', 'Your Roadmap To Crowdfunding', 'How to Get Help', and 'Next Steps'.

SPURstartup Orientation	
✓	Welcome!
✓	Let's Get to Know You!
✓	Your Toolkit
✓	Your Roadmap To Crowdfunding
✓	How to Get Help
✓	Next Steps

15) Enroll for Coruse

The screenshot shows the SPURstartup payment interface. At the top, the SPURstartup logo is displayed. Below it, a progress bar indicates two steps: '1 Log in' and '2 Payment', with '2 Payment' being the active step. The main content area is divided into two columns. The left column, titled 'Review Your Order', contains a table with the following items:

Crowdfunding Incubator	\$59
TOTAL	\$59

Below the table, there is a 'Redeem Coupon' link. The right column, titled 'Your payment is secure', contains a lock icon and the text: 'All payments are encrypted and processed through secure 128-bit SSL encryption technology.' Below this, the 'Enter Payment Information' section is shown. It has two tabs: 'Credit Card' (selected) and 'PayPal'. The 'Credit Card' form includes fields for 'Card Number', 'Expiration', 'CVC Code', and 'Country'. The 'Card Number' field is filled with a blacked-out value. To the right of the 'Card Number' field are logos for VISA, AMERICAN EXPRESS, and MASTERCARD. Below the form is a 'Verify Card' button. At the bottom of the page, the copyright notice '© SPURstartup' is visible.

Annexure 2

Output Screens

1) Pledger Relation

Backer Relation Reports



Total Backers		3
Friends		0
Family		2
Alumni of Program		0
Other		0
Don't know them.		1

2016

Export to CSV

2) Campaign Category Report

Total Campaigns	38
Art	0
Business	8
Design	2
Education	8
Fashion	2
Film & Video	1
Food	4
Gaming	0
Health	2
Journalism	1
Music	1
Photography	2
Publishing	0
Sports	0
Technology	12



2016 ▼

Export to CSV

3) Campaign Duration Report

Campaign Duration Reports

Campaign Duration - Successful Campaigns	
15 days	0
30 days	3
45 days	1
60 days	0

2016 ▼

Export to CSV



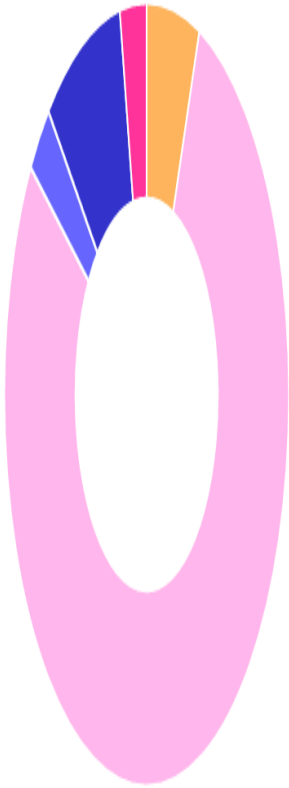
4) Campaign Overview



Updated: 2017-03-23 13:00:12

Campaign Report

Total Campaigns		38	
Being Edited	26	Running	0
Not Approved	1	Paused	0
Sent For Review	0	Being Reviewed	0
Cancelled	2	Not Funded	0
Pre Authorizing	0	Processing Capture	0
Capture Accepted	0	Capture Declined	1
Capture Completed	3		



5) Pledge Analysis Report

Pledge Amount Analysis



University	Amount Pledged
GSEA-Dallas	2811
Southern Methodist University	50
University of Texas Dallas	8233
University of Oklahoma	1368
Collin College	1368
Rice University	1368

Select Criteria: Select Year:

Export to CSV

6) **Student Year Report**

Student Year Analysis

Student Year	No. of Students
High School	0
Freshman	2
Sophomore	3
Junior	0
Senior	4
Alumni	2

Export to CSV



7) Campaign Report Term wise

Campaign Report - Term

Total Campaigns	27
Spring	16
Summer	0
Fall	11

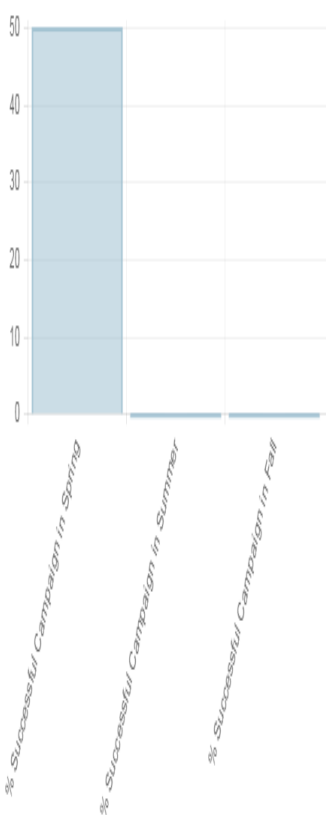
2016 ▼

Export to CSV



8) Campaign Success Rate

Campaign Success Rate - Term



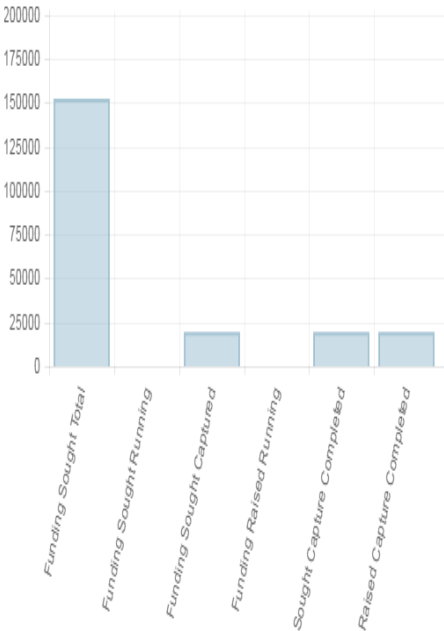
Total Campaigns		9
Term	Successful Campaigns	Total Campaigns
Spring	4	8
Summer	0	0
Fall	0	1

2016 ▼

Export to CSV

9) Funding Report

Funding Report



Total Earned	
Funding Sought Total	\$152,560.00
Funding Sought Running	\$0.00
Funding Sought Captured	\$19,500.00
Funding Raised Running	\$0.00
Sought Capture Completed	\$19,500.00
Raised Capture Completed	\$19,660.00

US Dollar ▼

10) Campaign Category Table

[Reports](#)
[Users](#)
[Categories](#)
[Campaigns](#)
[Pages](#)
[Portal Settings](#)

Add New Category

Delete Selected Categories

Category order can be adjusted by dragging and dropping categories

<input type="checkbox"/>	ID	Name	Description	
<input type="checkbox"/>	6	Film & Video	Film & Video Campaigns	Edit
<input type="checkbox"/>	1	Art	Art Campaigns	Edit
<input type="checkbox"/>	7	Food	Food Campaigns	Edit
<input type="checkbox"/>	9	Health	Health Campaigns	Edit
<input type="checkbox"/>	8	Gaming	Gaming Campaigns	Edit
<input type="checkbox"/>	3	Design	Design Campaigns	Edit
<input type="checkbox"/>	2	Business	Business Campaigns	Edit
<input type="checkbox"/>	4	Education	Education Campaigns	Edit
<input type="checkbox"/>	5	Fashion	Fashion Campaigns	Edit
<input type="checkbox"/>	10	Journalism	Journalism Campaigns	Edit
<input type="checkbox"/>	11	Music	Music Campaigns	Edit
<input type="checkbox"/>	12	Photography	Photography Campaigns	Edit
<input type="checkbox"/>	13	Publishing	Publishing Campaigns	Edit
<input type="checkbox"/>	14	Sports	Sports Campaigns	Edit
<input type="checkbox"/>	15	Technology	Technology Campaigns	Edit

11) View Course Transactions (Admin)

Add Filter ▼ Sort by Purchase Date ▼ ↓ DESC

Showing 1 - 2 of 2 transactions SHOW COUPON SHOW AFFILIATE

Purchases take a few minutes to process before appearing below. The transaction date below is when the transaction took place in your local time zone. It may not match with summary calculations elsewhere, which are typically UTC. All earnings are double checked prior to payouts.


DATE	SALE PRICE	EARNINGS (USD)	STUDENT	COURSE	GATEWAY	
Mon 09/26/16 4:42 am	\$49.00	\$44.92	[REDACTED]	FirstGear		Details
Thu 09/22/16 9:29 pm	\$49.00	\$44.92	[REDACTED]	FirstGear		Details

12) My Donations


SPURstartup Courses Community Blog About Funding Search for Campaign... Welcome, Mayur!

Contribution Management

Category Campaigns Order By Search by campaign name

 value Campaign Ended

ID	Reward	Contributed On	Amount Contributed
221	Direct Contribution	Aug 02 2016 01:04 AM	\$1

 Fridgely Campaign Ended

ID	Reward	Contributed On	Amount Contributed
94	Direct Contribution	Apr 06 2016 10:34 AM	\$1
88	Direct Contribution	Apr 06 2016 08:42 AM	\$1
86	Direct Contribution	Apr 06 2016 06:54 AM	\$1
85	Direct Contribution	Apr 06 2016 06:53 AM	\$1

Show 10 Results













★

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13) Topic View (Admin)

The screenshot shows the WordPress admin dashboard for 'SPURstartUp-SandBox'. The 'Topics' menu item is selected in the left sidebar. The main content area displays a table of topics.

ID	Topic Title	Topic Description	Topic Image	Topic Theme Color		
1	Crowdfunding	Discover how build,launch and run a killer campaign			Edit	Delete
2	Non-Profits	For entrepreneurs that want to give back.			Edit	Delete
3	MONEY MATTERS	Everything you need to know about money and your startup. From forecasting, to budgeting, to finding an investor.			Edit	Delete
4	Mentorship	Get career- (and sometimes life-) saving advice. Ask questions and find a mentors here!			Edit	Delete
5	Startup 101	Help for launching your dream business.			Edit	Delete
6	Meet & Greet	Get to know other members in our community.			Edit	Delete

Thank you for creating with WordPress.

Version 4.7.3

14) Project View (Admin)

The screenshot displays the 'Project View (Admin)' interface. At the top left, the word 'Projects' is followed by an 'Add New' button. Below this, there are filters for 'All (3)' and 'Published (3)'. A search bar with the text 'Search Projects' is located on the right. Below the filters, there are buttons for 'Bulk Actions', 'Apply', 'All dates', and 'Filter'. The main content is a table with two columns: 'Title' and 'Date'. The table contains three rows of project data. At the bottom of the table, there are buttons for 'Bulk Actions' and 'Apply', and a '3 items' indicator.

<input type="checkbox"/> Title	Date
<input type="checkbox"/> New YouTube Ad Campaign in 2016	Published 2016/01/08
<input type="checkbox"/> Analytics Integration for our New Website.	Published 2016/01/08
<input type="checkbox"/> Project Plan for World Domination	Published 2015/07/26

15) Drive View (Admin)

Drive [Add New](#)

1 post moved to the Trash. [Undo](#)

All (3) | Published (3) | Trash (20) Search Docs

Bulk Actions All dates 3 items

<input type="checkbox"/> Title	Author	<input type="button" value="Comment"/>	Date
<input type="checkbox"/> 2015 State of the Company: PowerPoint Project Presentation	Melissa Smart	—	Published 2015/07/26
<input type="checkbox"/> Important Documents for Company Registrations	Melissa Smart	—	Published 2015/07/26
<input type="checkbox"/> New Stage Play Presentation Raw Materials & Documents	Melissa Smart	—	Published 2015/07/26

Title Author Date

Bulk Actions 3 items

Annexure 3

Sample Program

```
<?php
/**
 * Php script containing all functions of wp_spur_topic table
 * @package thrive
 */
/* Initialize global Table column keys for wp_spur_topic */
$stable_name = "wp_spur_topic";
$topic_id_key = "ID";
$topic_title_key = "topic_title";
$topic_description_key = "topic_description";
$topic_image_key = "topic_image";
$topic_theme_color_key = "topic_theme_color";

/**
 * Adds topic in wp_spur_topic
 * @param array $topic_args {
 *     Array arguement for Adding a topic
 *     @type int ID topic_id of the topic
 *     @type string topic_title Title of the topic
 *     @type string topic_description Description of
the topic
 *     @type string topic_image image path of the
topic to be added
 *     @type string topic_theme_color Hex value of
the topic theme color
 * }
 * @return int|false The new topic's ID of success , false on
failure
 */
function add_spur_topic($topic_args) {

    global $wpdb;
    global $stable_name;
```

```
global $topic_id_key;
global $topic_title_key;
global $topic_description_key;
global $topic_image_key;
global $topic_theme_color_key;

if( is_array($topic_args) ) {

    // Set default values for the $args array
    $topic_id = 0;
    $topic_title = "";
    $topic_description = "";
    $topic_image = "";
    $topic_theme_color = "#333";

    // Extract values from the $topic_args array
    if (array_key_exists ( $topic_id_key,
$topic_args ))
        $topic_id = $topic_args
[$topic_id_key];

    if (array_key_exists ( $topic_title_key,
$topic_args ))
        $topic_title = $topic_args
[$topic_title_key];

    if (array_key_exists ( $topic_description_key,
$topic_args ))
        $topic_description = $topic_args
[$topic_description_key];

    if (array_key_exists ( $topic_image_key,
$topic_args ))
        $topic_image = $topic_args
[$topic_image_key];

    if (array_key_exists ( $topic_theme_color_key,
$topic_args ))
```

```

        $topic_theme_color = $topic_args
[$topic_theme_color_key];

        // Check the input values for empty condition
        if( empty($topic_title) )
            return false;

        // Add new topic if $topic_id is 0 else update the
existing topic
        if($topic_id > 0) {
            $table_data = array(
                $topic_title_key =>
$topic_title,

                $topic_description_key => $topic_description,

                $topic_theme_color_key => $topic_theme_color
            );
            if($topic_image)

                $table_data[$topic_image_key] = $topic_image;

            return $wpdb->update($table_name ,
                $table_data , array($topic_id_key => $topic_id));
        } else {
            // Check if topic title already exists
            if( !empty( $wpdb->get_results("Select topic_title from wp_spur_topic where
topic_title='".$topic_title.'"") ) )
                return false;
            $table_data = array(
                $topic_id_key =>
$topic_id,

                $topic_title_key =>
$topic_title,

```

```

        $topic_description_key => $topic_description,
                                $topic_image_key =>
$topic_image,

        $topic_theme_color_key => $topic_theme_color
    );

    $data_type = array(
        '%d',
        '%s',
        '%s',
        '%s',
        '%s',
    );

    $wpdb->insert($table_name
,
$stable_data , $data_type );
    $sid = $wpdb->insert_id;
    if( $sid > 0 )
        return $sid;
    return false;
}

} else {
    // Input is not an array return error
    return false;
}
}
/**
 * Updates topic in wp_spur_topic
 * @param array $topic_args {
 *     Array arguement for Adding a topic
 *     @type int ID topic_id of the topic
 *     @type string topic_title Title of the topic
 *     @type string topic_description Description of
the topic

```

```
*           @type string topic_image image path of the
topic to be added
*           @type string topic_theme_color Hex value of
the topic theme color
* }
* @return int|false The new topic's ID of success , false on
failure
*/
function edit_spur_topic($topic_args) {
    add_spur_topic($topic_args);
}
/**
* Deletes topic from the wp_spur_topic
* @param int $topic_id Id if the topic to be deleted
* @return boolean true if topic is deleted , false if failed
*/
function delete_spur_topic($topic_id) {
    global $wpdb;
    global $table_name;
    global $topic_id_key;

    if( $topic_id > 0 ) {
        $deleted = $wpdb->delete($table_name
array( $topic_id_key => $topic_id ) , array('%d'));
        if($deleted)
            return true;
        else
            return false;
    }
    return false;
}

/**
* Gets a topic information by its id
* @param int $topic_id ID of the topic to be retrieved
* @return object|false Associative array of topic informantion if
success , false if failure
*/
function get_spur_topic_by_id($topic_id) {
```

```
global $wpdb;
global $table_name;
global $topic_id_key;

if( $topic_id > 0 ) {
    $topic = $wpdb->get_row("Select * from
".$table_name." where ".$topic_id_key."=".$topic_id);
    if( !empty($topic) )
        return $topic;
    else
        return false;
} else {
    return false;
}
}

/**
 * Gets all topics
 * @return object|NULL array of topic objects
 */
function get_all_spur_topics() {
    global $wpdb;
    global $table_name;

    $result = $wpdb->get_results("Select * from
wp_spur_topic" , OBJECT_K);
    return $result;
}

/**
 * Adds topics to post
 * @param int $post_id id of the post
 * @param array $topic_id array of id of topics
 * @return array|false array of topic ids if success , false on
failure
 */
function add_post_topic($post_id , $topic_id) {
    // Check if $post_id is not an array and valid post_id
    and $topic_id is an array
```

```

        if(!is_array($post_id) && $post_id > 0 &&
is_array($topic_id)) {
            $topic_array = array();
            // Check if topic is has valid elements
            foreach( $topic_id as $id )
                if( $id <= 0 )
                    // Invalid input
                    return false;
            foreach( $topic_id as $id ) {
                $result = add_post_meta($post_id,
'post_topic', $id);
                if($result)
                    array_push($topic_array
$result);
                else
                    return false;
            }
            return $topic_array;
        } else {
            // Invalid input to function
            return false;
        }
    }

```