

**PROJECT REPORT**  
**ON**  
**“CAREER AND PATHS”**  
**FOR**  
**PREDICT SOLUTIONS**  
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**2017-2020**

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## **CHAPTER 1: INTRODUCTION**

## **1.1 Company Profile**

Predict Solutions is a software product company delivering technology-driven Business solutions that meet the strategic objectives of the clients.

The company Delivers unmatched business value to customers through a combination of process Excellence, quality frameworks and service delivery innovation.

We work closely with our clients to create and deliver essential advantage We bring foresight and knowledge, deep functional expertise, and a practical Approach to build and deliver real impact. We adhere to all our commitment and deliver real impact. We adhere to all our commitments and our delivery is Impeccable.

Predict Solutions has strong technical and domain expertise along with Significant implementation experience that compliments customer's business Knowledge.

## **1.2 Existing System and Need for system**

- The Current System is manual, Planning of educational journey and getting the right information and details about the qualifications and institute, institute programs, and other facilities about the programs.
- The interaction with the mentors, coordinators of the institute can be carried out at the institute premises.
- As the current system is not user friendly, and the students' needs to visit the various institutes, and get the information manually.
- Various paths of achieving the qualification cannot be determined easily.
- Information of the institute programs are geographically limited and one needs to Get the information of institutes individually.

- In existing manual system facilities and institute resources information cannot be gathered by the student.
- With the help of the developed system the student the get the information of the various institutes and institute programs across the world.
- Student can get the graphical representation of the educational paths created by the System and get various information solution for the achievement of the Qualification.
- Student can connect with the mentors and coordinators of the institute and get the desired information of the programs offered by it.
- System will provide the information of the various facilities and the resources of the institute provided to the student.

### **1.3 Scope of Work**

The main purpose of the project is to automate the process of getting the right information of the institute and programs offered by the institute across the world and get the support for the admission process by connecting to the mentors and coordinators of the institute.

#### **1) Student:**

##### **Institute:**

In this module the student will get the information details of the Institute, Academic Programs details, mentors, coordinators, staff information, gallery, Institute resources.

##### **Institute Program:**

In this module the student will get the information of the Program, program offered by institute, university, program



duration, eligibility, student can generate the path of the specified programs and get various solutions for it.

**Path:**

In this Module the student can get the graphical representation of the career path from the start of the education to the achievement of the particular qualification.

Various programs, institute and universities information can be gathered from this module

**Signup:**

In this module the registration can be done by selecting one of the profiles, Student / Parent. The Parent can maintain the students profile and get the desired information details for the children's educations.

**Mentor:**

In this module, mentors details will maintained, the mentorship areas of a particular mentor. And the mentors associated with the institutes and various programs.

**Institute Resources:**

In this module, Student can get the resources made available by the institutes and get the necessary information about it.

**Applications:**

In this module, the student registered applications can be seen to the admin, admin can get all the information about the applications registered by the number of students across the world.

## **2) Admin:**

### **Add Institute:**

In this module, Institute admin can add institute of various universities across the world.

### **Add Institute Programs:**

In this module, Institute admin can add institute programs offered by various universities and institutes across the world.

### **Add University:**

In this module, admin can add various universities' across the world.

**Institute Resources:**

In this module, Institute admin can add the resources provided by the institutes.

**Institute Mentors:**

In this module, admin can add the institute mentor details. And the mentorship areas provided by him.

## **1.4 Operating Environment – Hardware and Software**

### **Hardware Environment:**

- **Core 2 duo processor**
- **512 MB RAM**
- **256 GB Hard disk Space**
- **Ethernet Card with an Internet**
- **Plug and Play Devices like monitor, keyboard, mouse etc.**

### **Software Environment:**

- **Client Side: Angular 6**
- **Server Side: Node.js**
- **Database: MongoDB**

## **1.5 Detailed Description of Technology Used**

### **Client Side: Angular 6**

Angular 6 is a JavaScript framework for building web applications and apps in JavaScript, html, and Typescript, which is a superset of JavaScript. Angular provides built-in features for animation, http service, and materials which in turn has features such as auto-complete, navigation, toolbar, menus, etc. The code is written in Typescript, which compiles to JavaScript and displays the same in the browser.

### **Server Side: Node.js**

Node.js is an open source server environment.

Node.js allows you to run JavaScript on the server.

As an asynchronous event-driven JavaScript runtime, Node.js is designed to build scalable network applications.

**Database: MongoDB**

MongoDB is a general purpose, document-based, distributed database built for modern application developers and for the cloud era. No database makes you more productive.

## **Chapter 2: Proposed system**



## **2.1 Proposed System**

- When the Student or Parent Registers on the system necessary information is requested from the user for further information deliverable.
- User can easily select the options provided by the system during the registration.
- Student or Parents can search from various institutes around the world, and can apply filters for the efficient results.
- Students or Parents can check the institutes information provided by the system and get the details of the programs provided by it.
- User can get the detail information of the academic programs offered by the institutes.
- User can get the resources and facilities information of the institute provided.

- Student can get the graphical representation of the path generated of the selected program.
- Institute information can be updated by the institute admin whenever needed.

## **2.2 Objectives of System**

- This system will automate the process of searching the institutes and various academic programs and getting the useful information about it
- This system will give the user the functionality of choosing the right academic programs and getting the support of the mentors whenever needed.
- The user can get the various career options across the world with the use of the system.
- The user can connect with the mentors and coordinators of the institutes and get the personal mentorship and information regarding it.
- The system will provide the functionality of generation of path of the particular program selected of the institute. The path will provide various career options which can be achieved on the similar educational qualification.

- The system will provide various resources to the user provided by the institute.
- Institute Admin can add/Update the information of the institute and institute programs.
- This system will provide the Eligibility Details of the academic programs offered by the institutes.

## 2.3 User Requirements

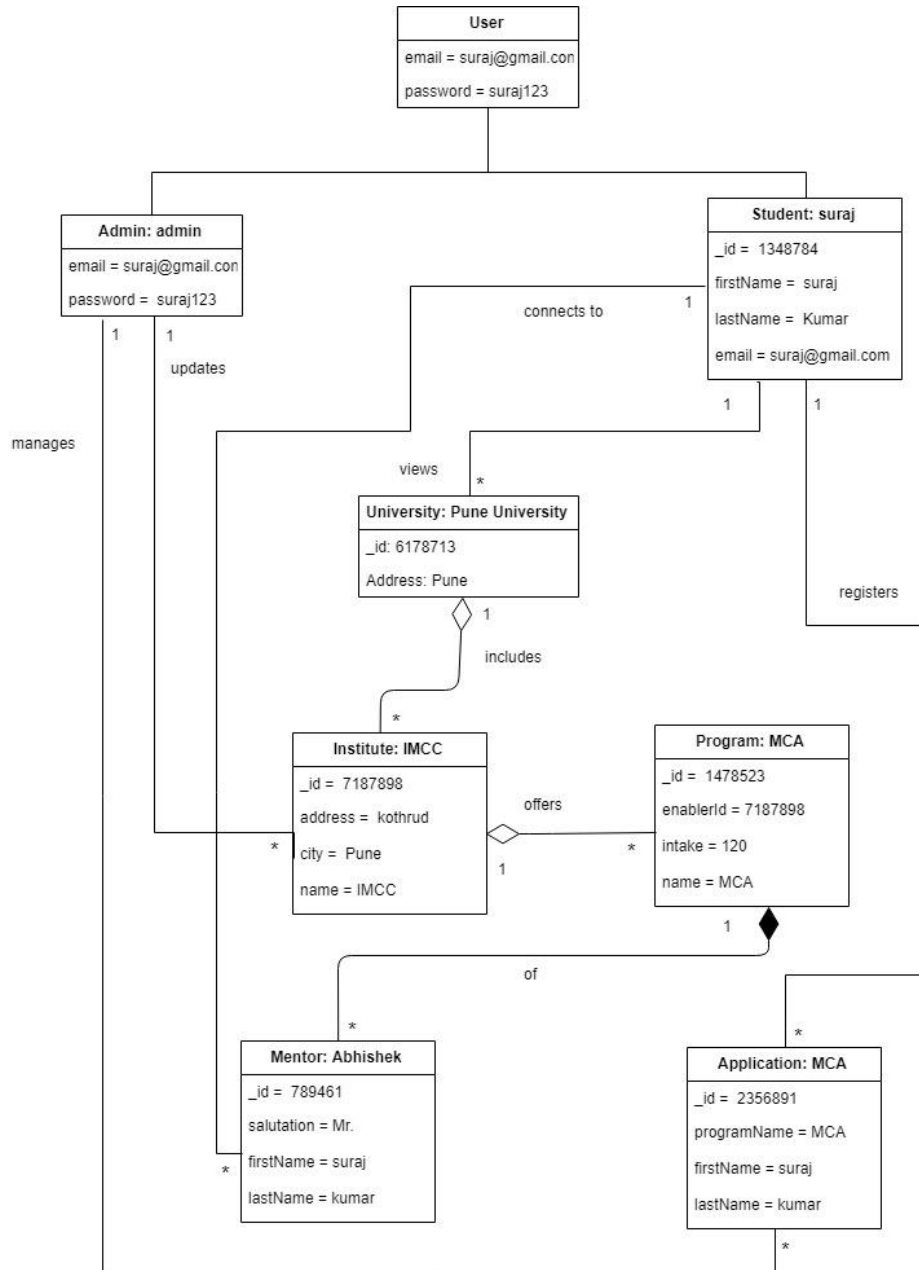
- Getting the information of various career options across the world.
- Getting the detailed information about the colleges and programs offered by it.
- Online interaction with mentors and coordinator of the institutes.
- Providing the information about the institute resources and facilities.
- Graphical representation of the career path of a particular selected program.
- Updation of information by institute admin of the particular institute.
- Getting the facility of registering the application for the particular program of the institute across the world.

The various outputs required:-

- Institute details report.
- Institute Program report.
- Mentors report.
- Paths report.
- Institute Resources details report.
- Registered admission applications.

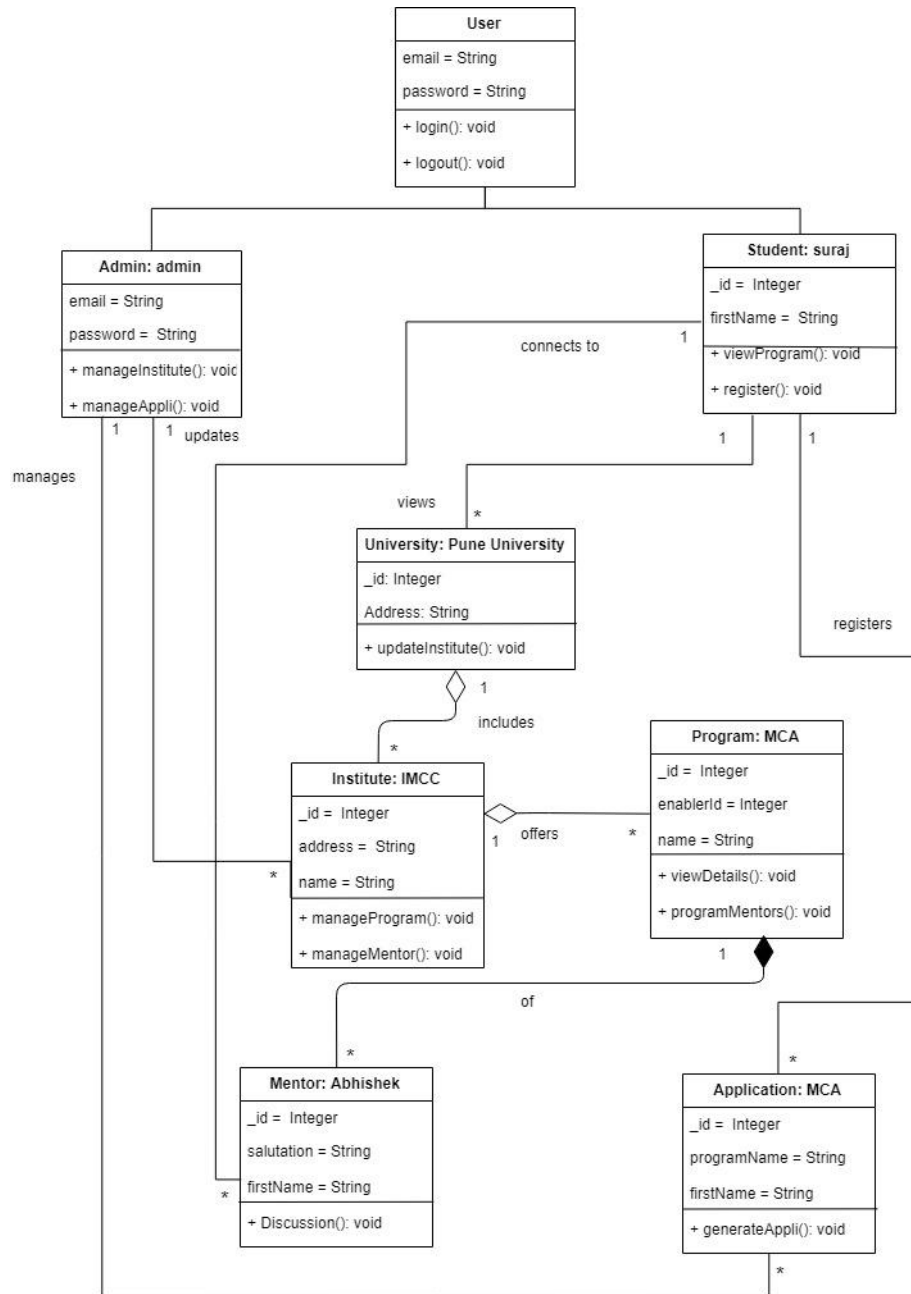
## **Chapter 3: Analysis & Design**

### 3.1 Object Diagram



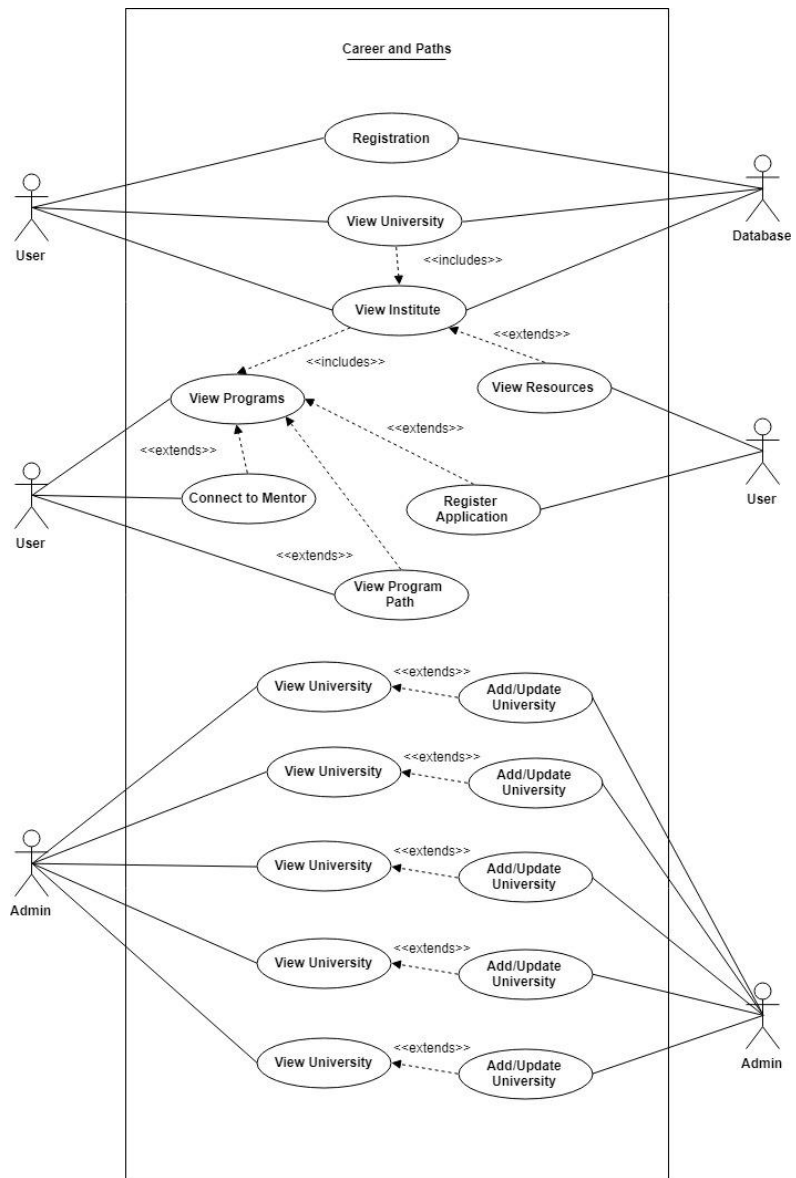


### 3.2 Class Diagram



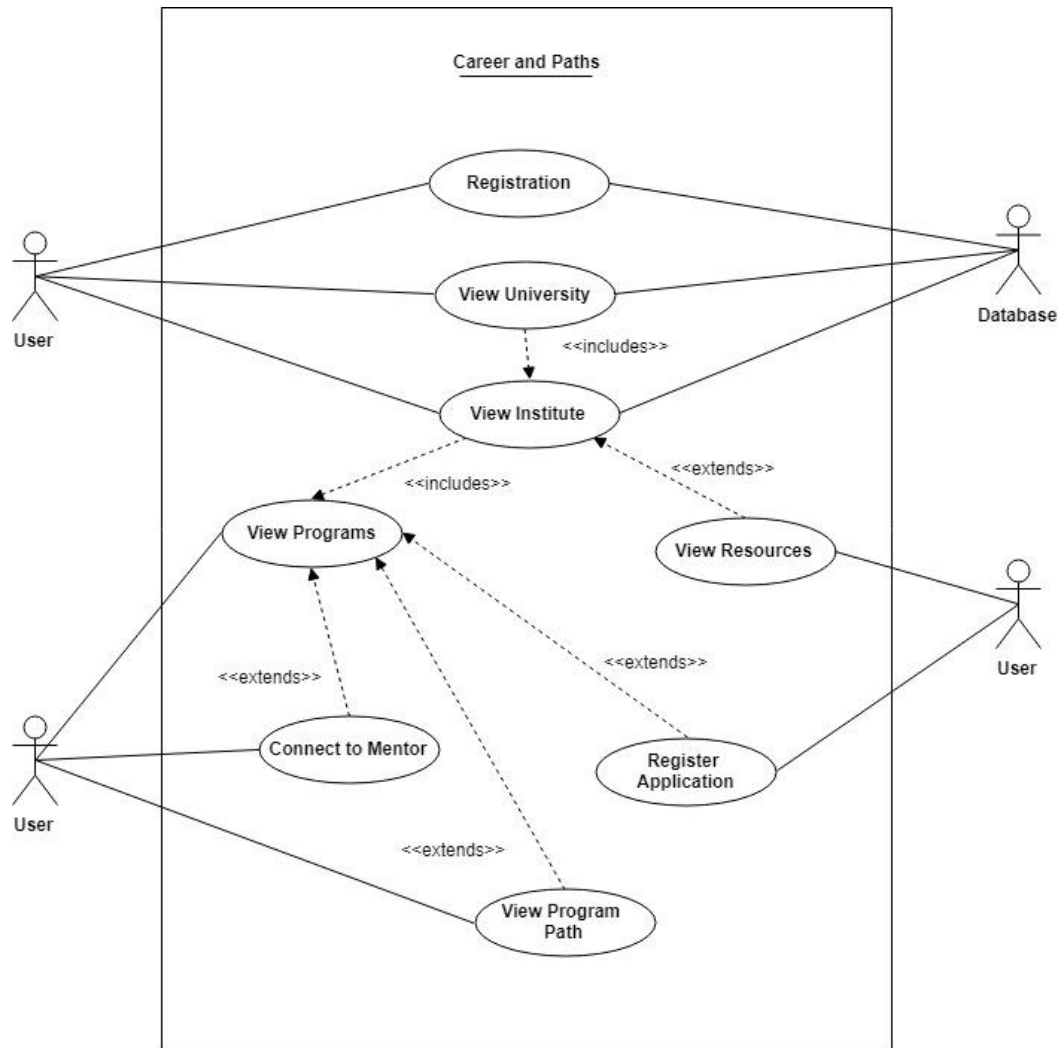
### 3.3 Use Case Diagram

Business Use Case Diagram:



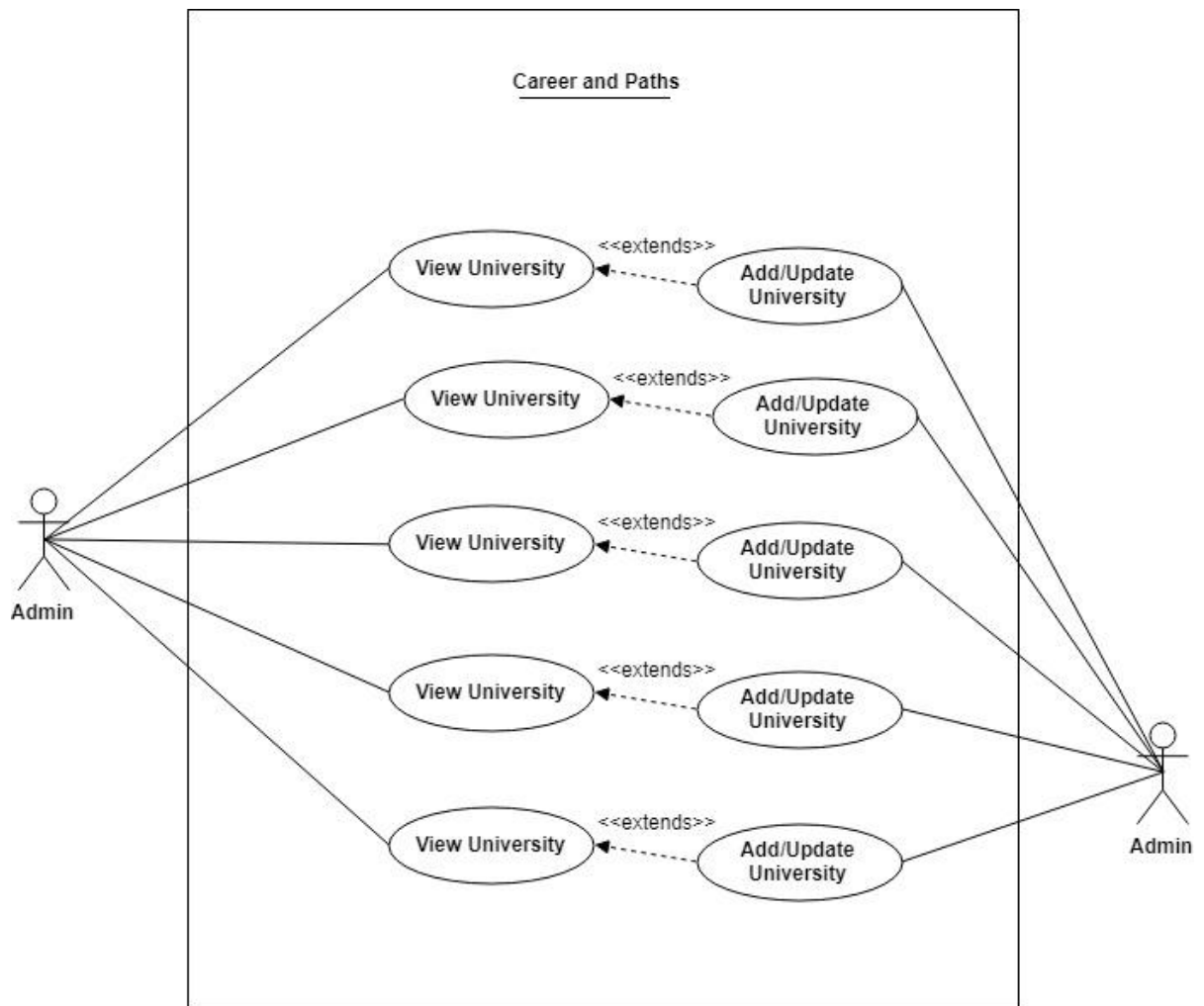
### 3.3 Use Case Diagram

User Use Case Diagram:



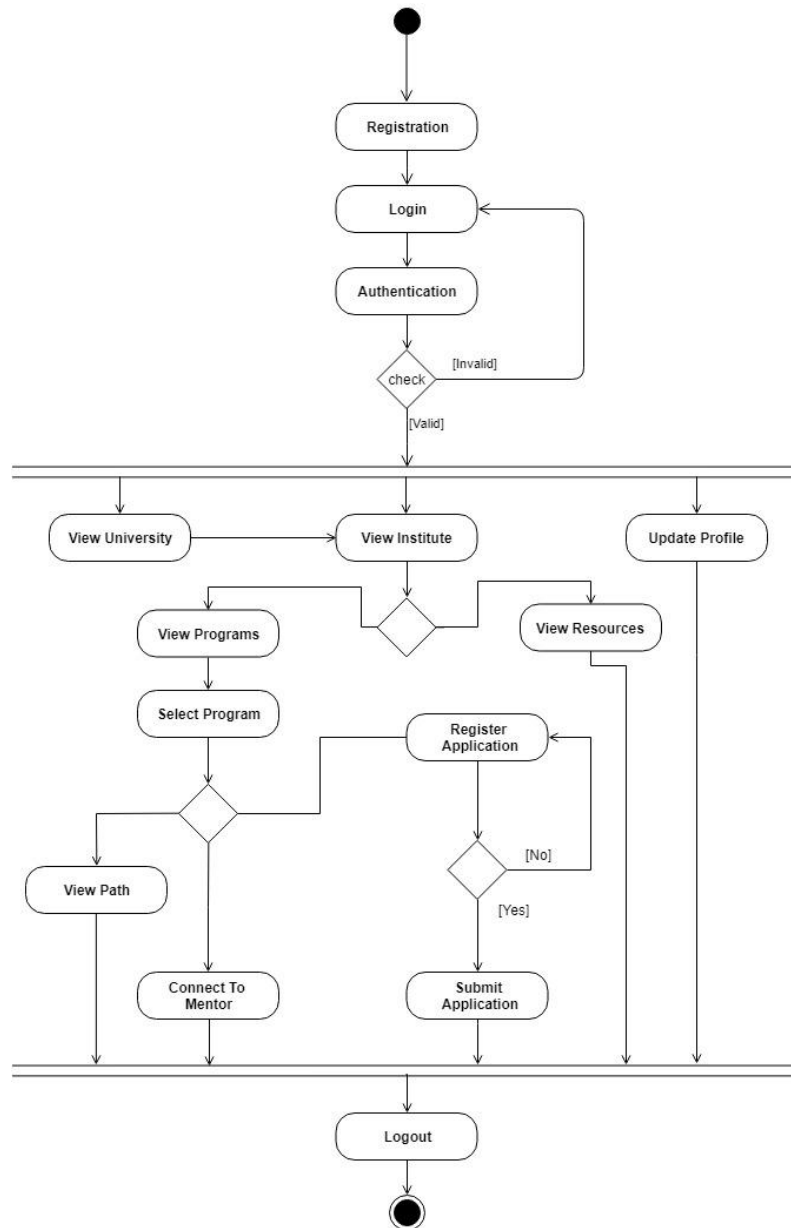
### 3.3 Use Case Diagram

Admin Use Case Diagram:



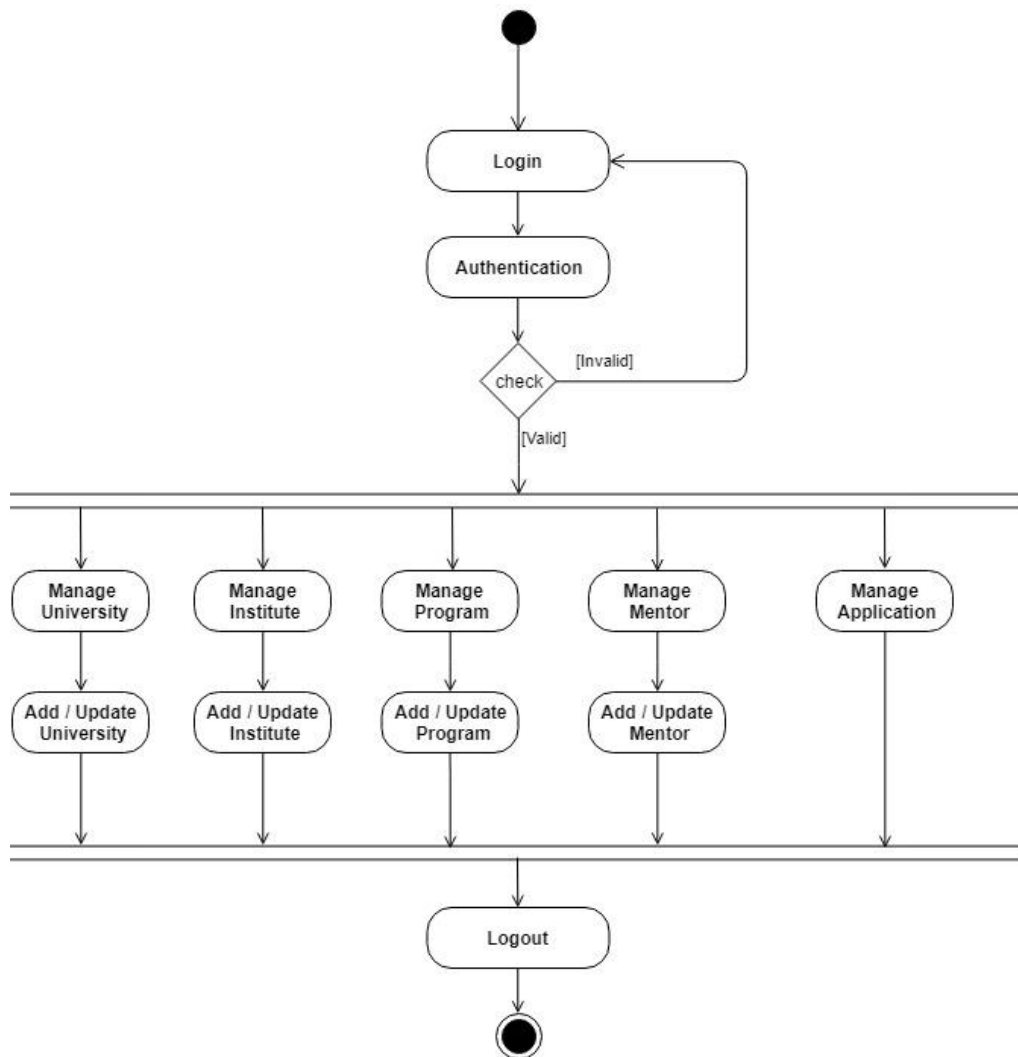
### 3.4 Activity Diagram

User Activity Diagram:



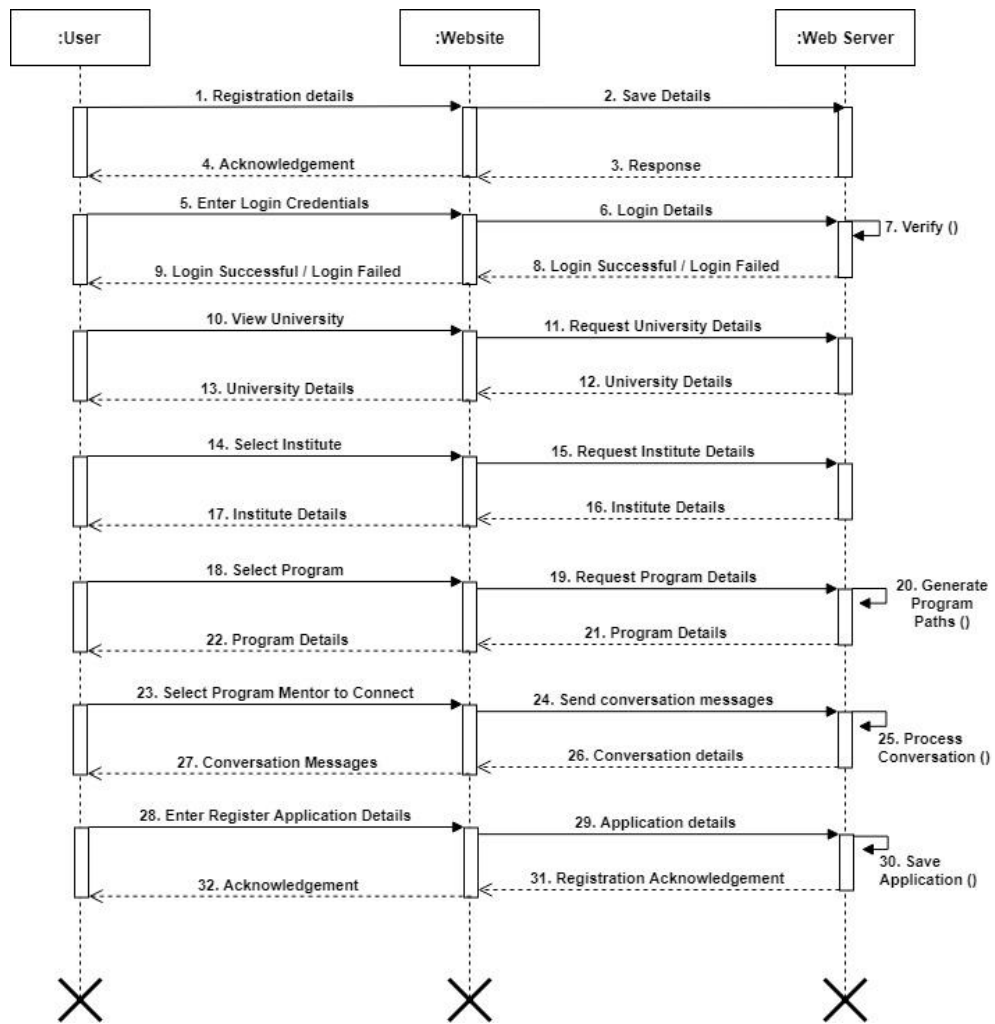
### 3.4 Activity Diagram

Admin Activity Diagram:



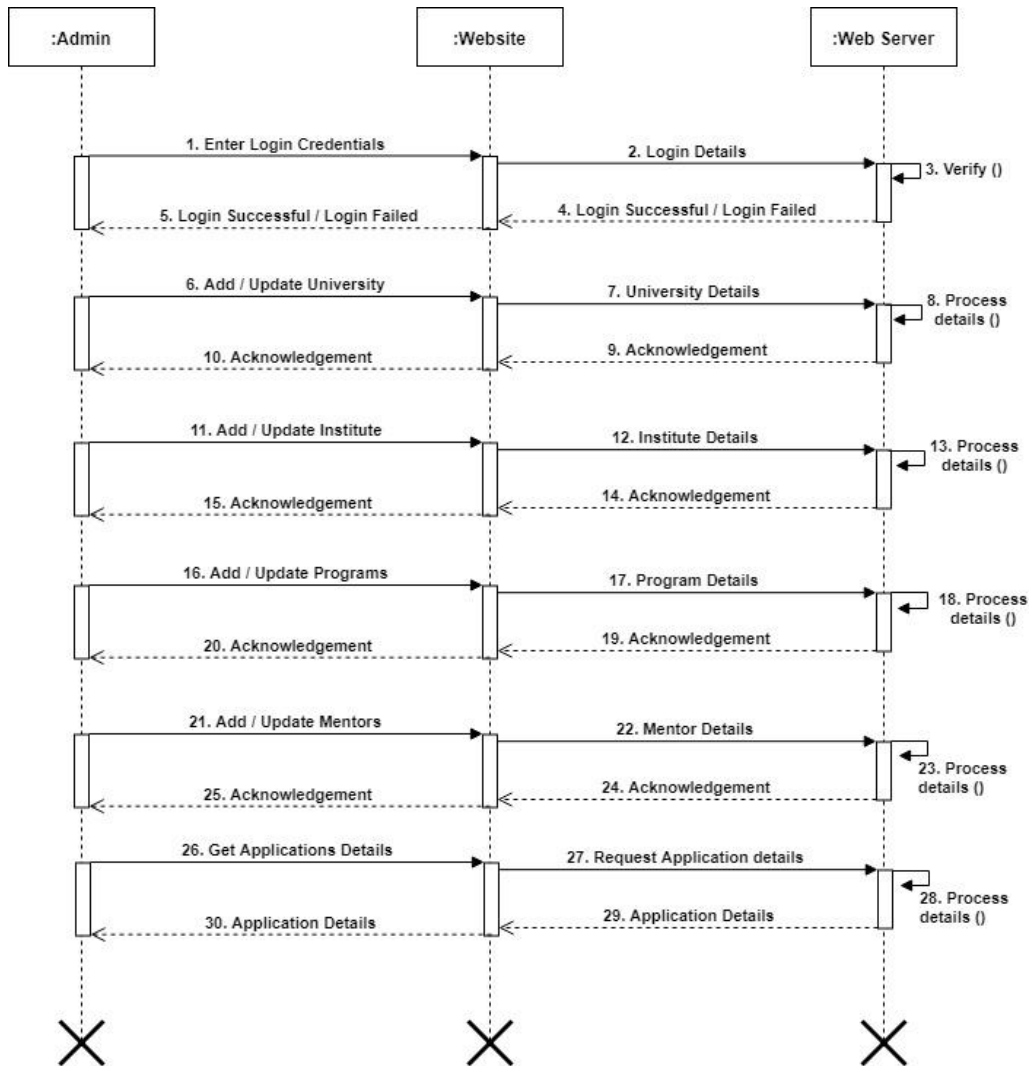
### 3.5 Sequence Diagram

User Sequence Diagram:



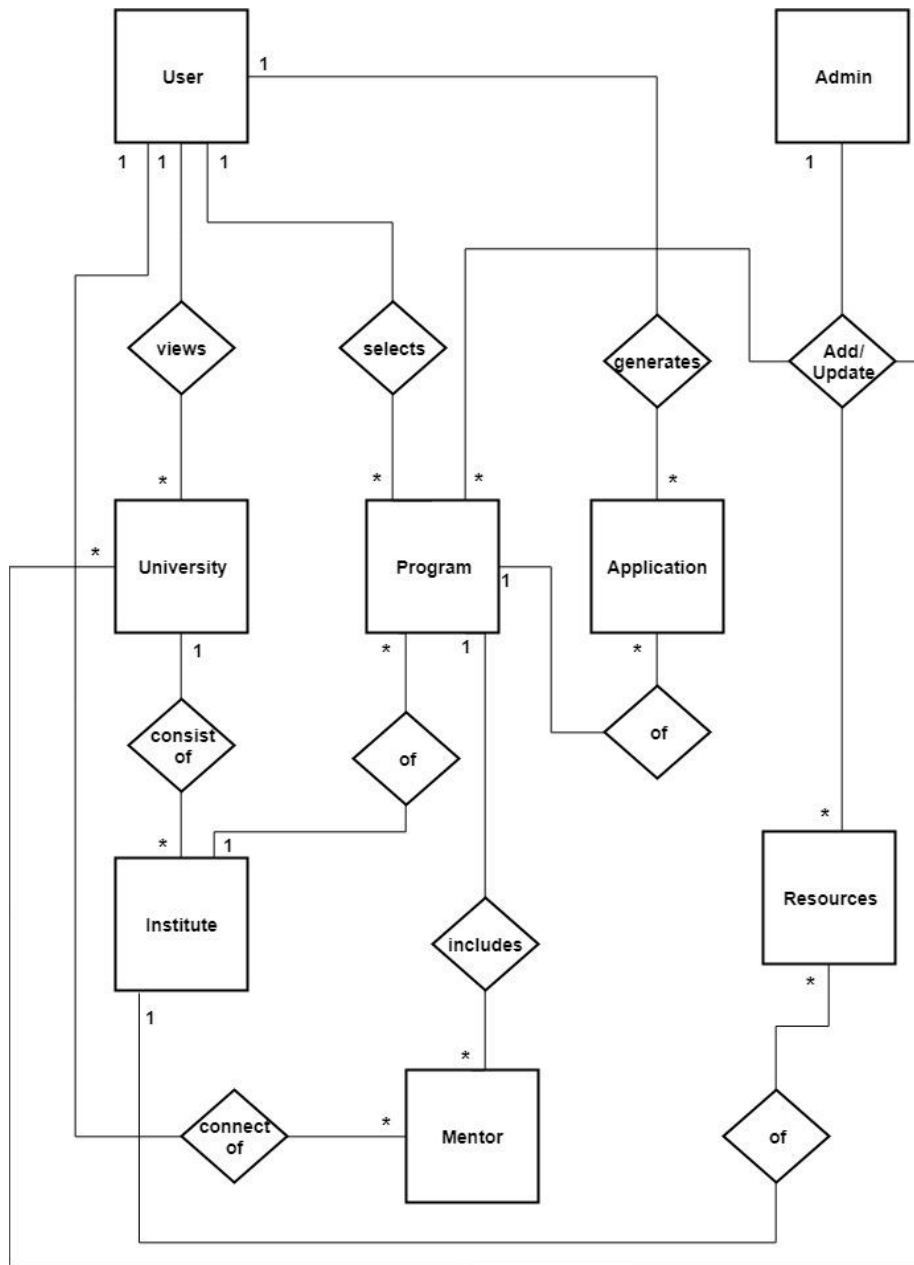
### 3.5 Sequence Diagram

Admin Sequence Diagram:

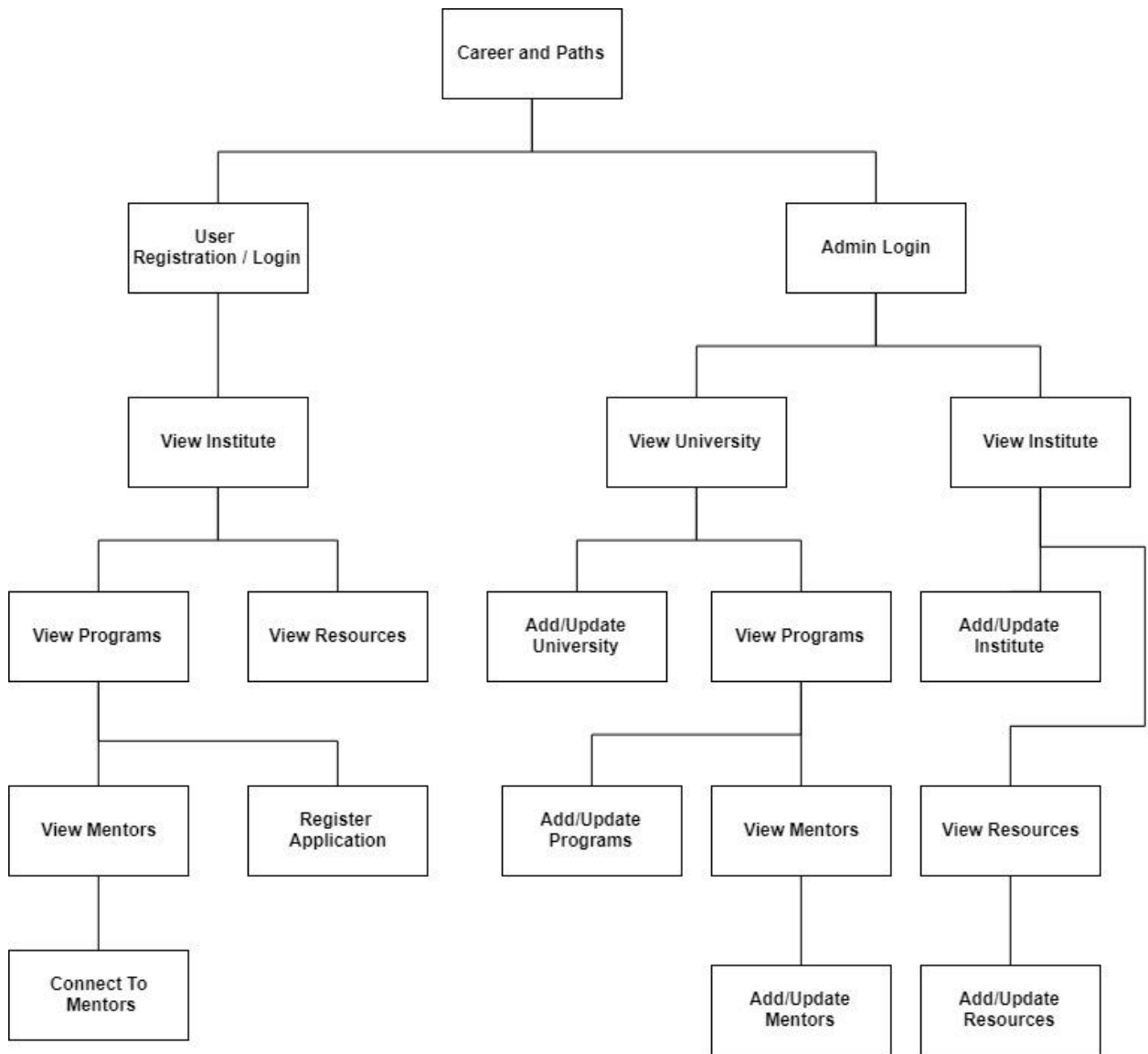




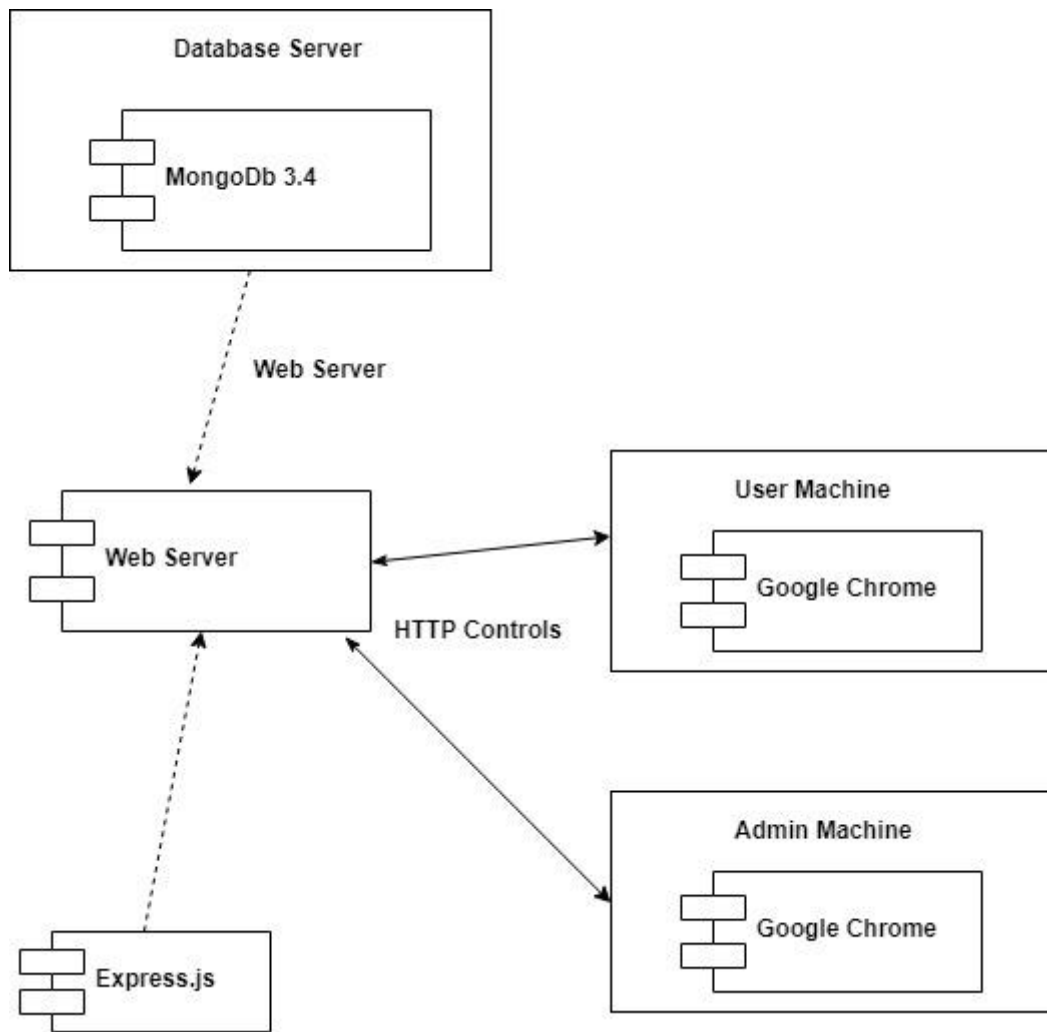
### 3.6 Entity Relationship Diagram



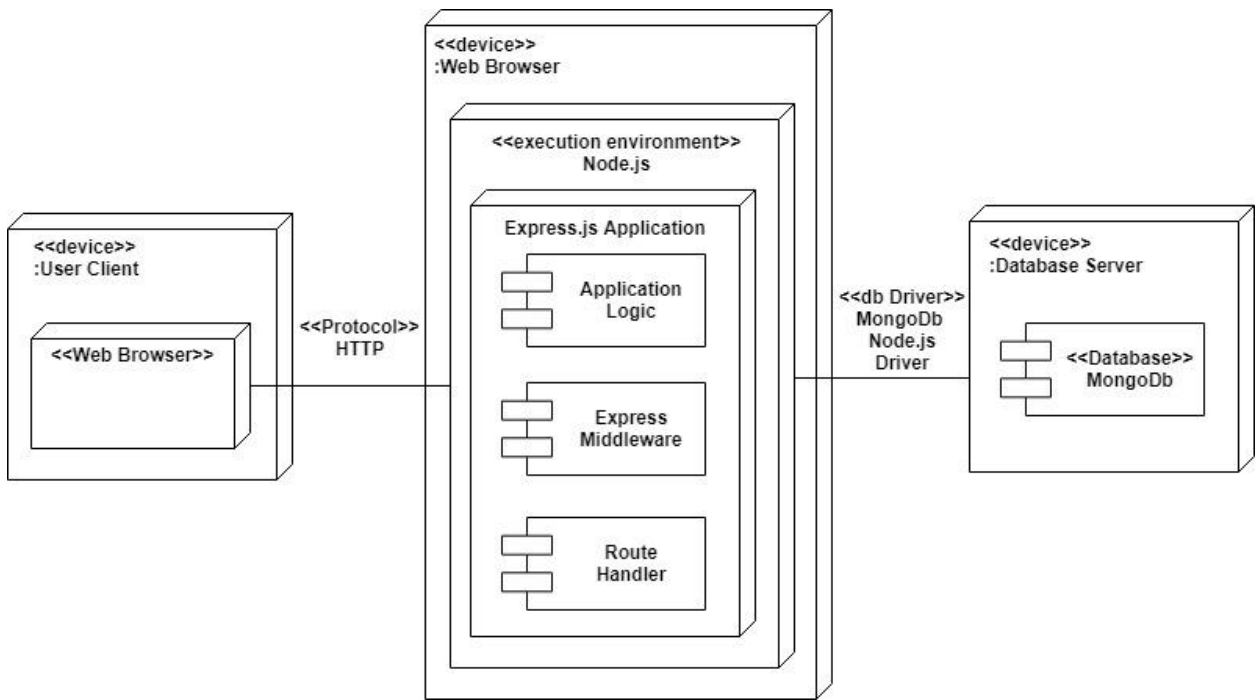
### 3.7 Module Hierarchy Diagram



### 3.8 Component Diagram



### 3.9 Deployment Diagram



## 3.10 Module Specifications

### 1) User Modules:

- **Registration:**

The first step for the user is to register in the system for using it. During the Registration process various information is requested to the user for the following execution in the further tasks in the system. The user is asked about the educational status information, and the areas of various fields of education for the further effective exploration.

- **Login:**

After the successful registration the user is brought to login module. In this module the user is authenticated for the use of the system.

- **Institute:**

After the successful login the user can explore various institutes across the world and the suggested results are been calculated on the basis of the areas of interests and fields of educations selected during the registration. Filter is also provided to user for effective search results. In this module the user gets the total information about the institute and the facilities and the resources provided by it. Institute module includes coordinators, mentors, staffs details.

- **Program:**

In this module the user gets the information about the program in detail. The duration of the program, program mentors, coordinators and the eligibility of the program. Program fees, Alumni, cutoffs, seats data is also provided to the user, future programs list is also provided to the

user and hence it could be beneficial to the user for the educational journey.

- **Resources:**

In this module the user gets the institute resources details and it provides the user information to the user about the college ongoing, past and recent activities. Resources are of three types Pdf, YouTube links, and other urls. The resources can be liked, shared and commented as per the user interaction.

- **Mentors:**

In this module the mentors can be added against a institute program and the mentor should be a institute staff before assigning as a mentor of a particular institute program.

User can get the functionality of connecting to the mentor

and to have one to one conversation with them. Mentors respond information can be acquired by the user.

- **Applications:**

In this module the user can register for the particular program of the various institutes across the world. The institutes can get the details of the registered students and the further process can be taken care by the institute authorities. The applications can be for the recent batches or the future batches commencement. The user can register to the particular batch made available by the institute.

- **Path:**

In this module the user can get the graphical representation of the educational journey, the path is been created and presented to the user and the various path



levels can be seen to the user, the path modules includes various career options and combination for the achievement of the particular qualification, various filters can be applied to the each level of the path created.

## **2) Admin Modules:**

- **Login:**

In this module the Admin is authenticated for the use of the system. After the successful login the admin is been navigated to the admin dashboard. For the admin authorized tasks execution.

- **Add / Update University:**

In this module the various universities details are been entered in the system, various universities can be created from around the world, later the data entered can be updated at the admin level access

- **Add / Update Institute:**

In this module the various institute details are been entered in the system, various institute can be created from around the world under various affiliated universities, later the data entered can be updated at the admin level access

- **Add / Update Program:**

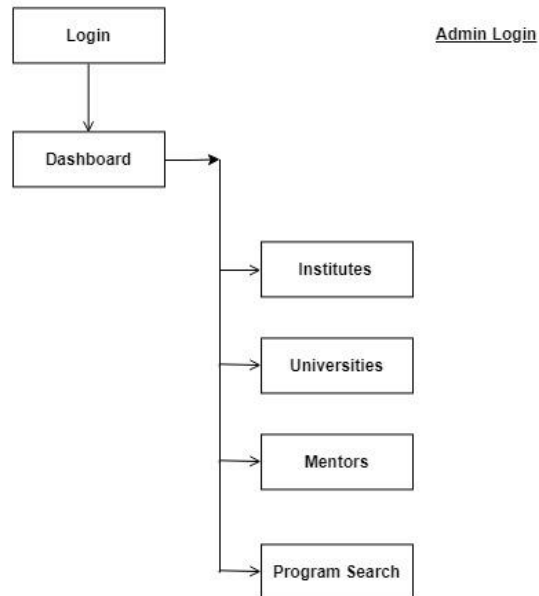
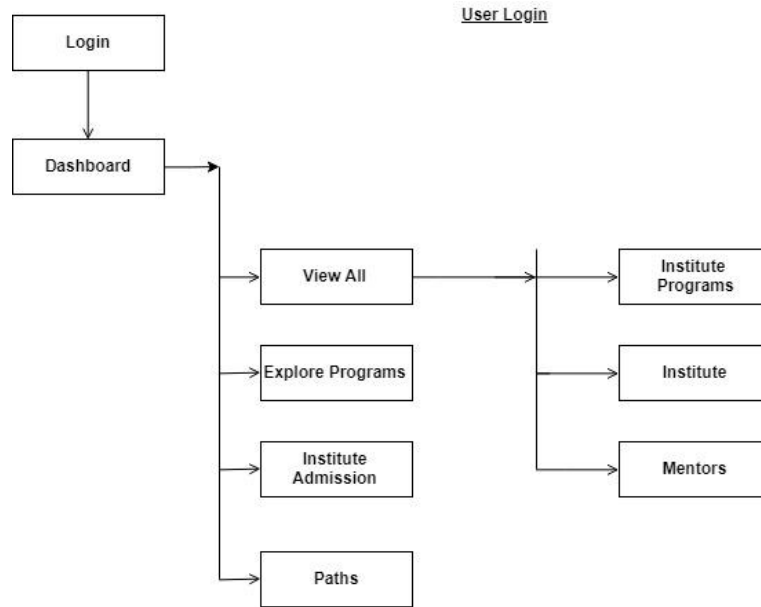
In this module the various institute program details are been entered in the system, various institute program can be created from around the world under a particular

institute, program coordinators can be added to a particular program.

- **Add / Update Mentors:**

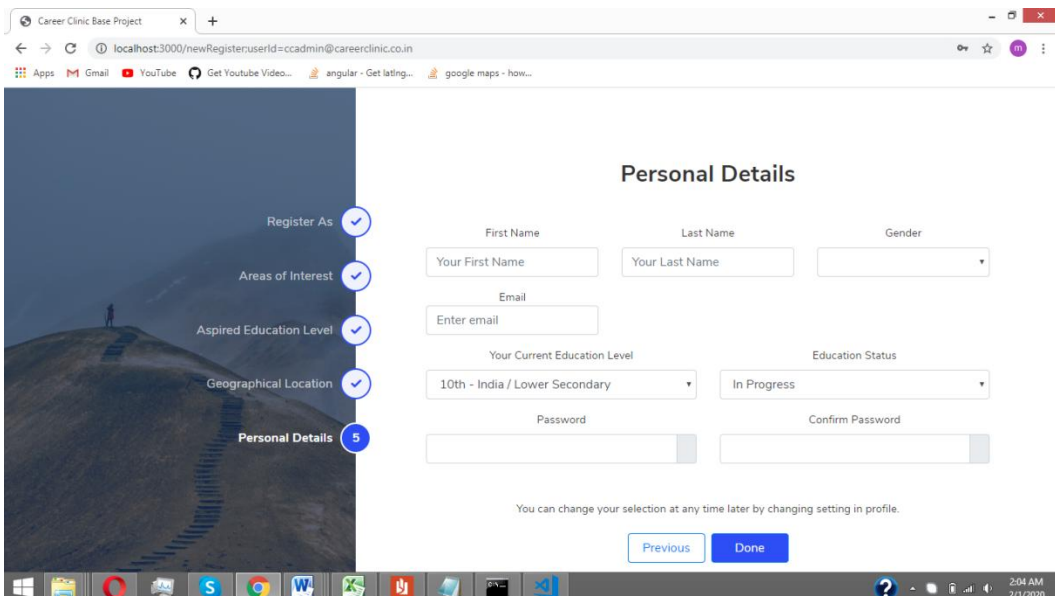
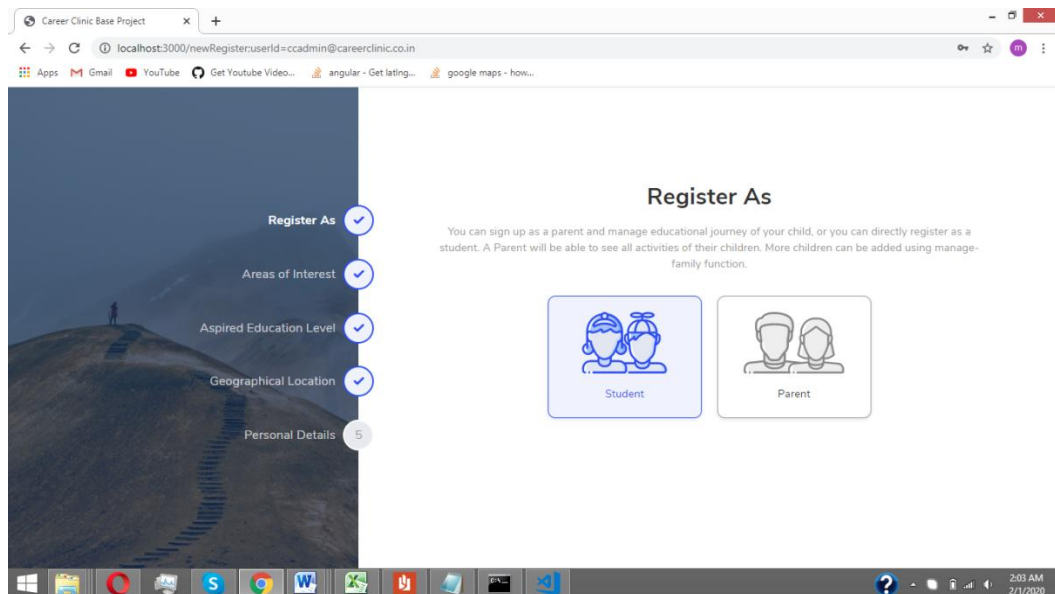
In this module the admin can add various mentors to a particular institute and add the mentor details of the particular mentor.

### 3.12 Web Site Map Diagram

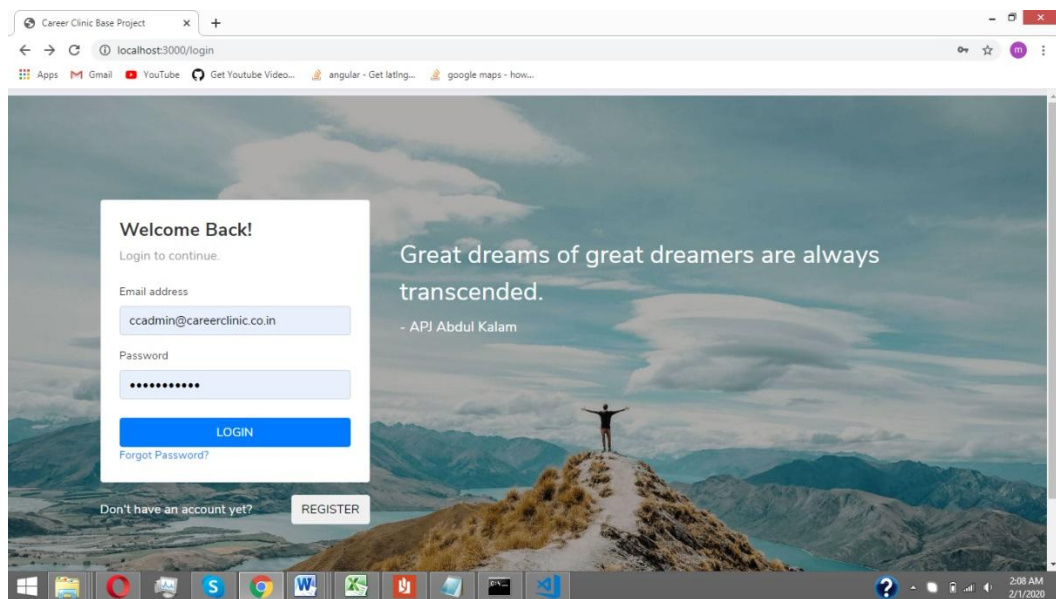


## 3.13 User Interface Design

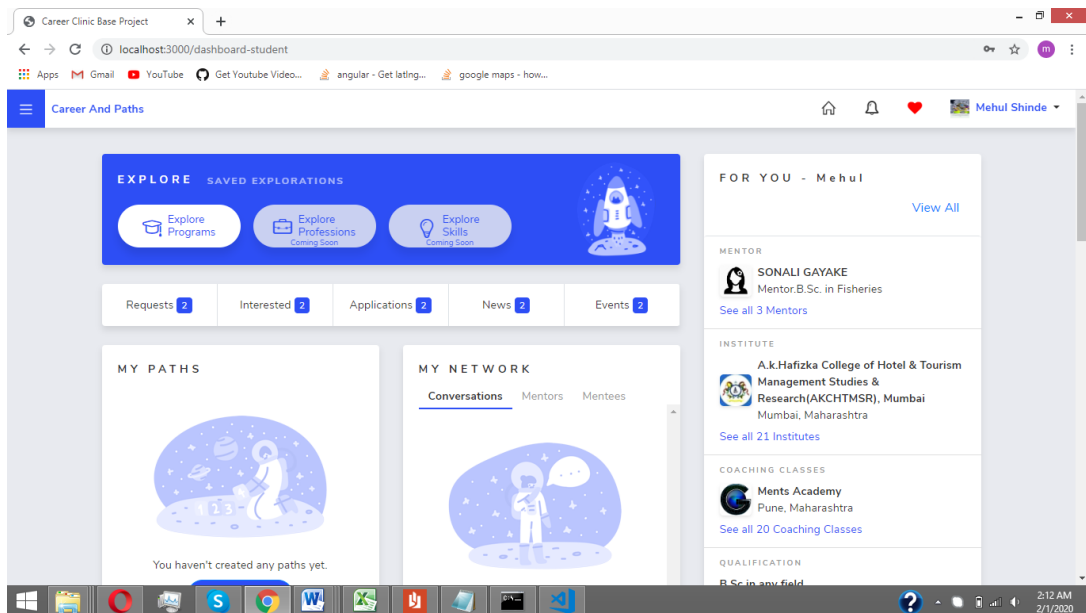
### 1) Registration Page:



## 2) Login Page:



### 3) User Dashboard:



## 4) Institute:

The screenshot shows a web browser window with the following details:

- Browser Tab:** Career Clinic Base Project
- Address Bar:** localhost:3000/enabler-showcase:enabler=enabler-showcase:enablerId=5c246c4dac811b001540bbd7:fromPage=forYouEntitys
- Page Title:** Career And Paths
- Header:** College of Engineering, Pune (COEP) with location (Pune, India) and a share button.
- Stats:** Established 1854, NIRF 49, OutlookIndia 10, IndiaToday 22, TheWeek 22.
- Navigation Menu:** About Us, Academic Programs, News, Resources, Institute Events, List-Club/List-Project.
- Featured Alumni:** Abhay Mainkar, Class of 1987 Electrical (B.E.) Pune. Includes a "View More" link.
- Featured Section:** Lists institutions and programs with buttons: "Member" (Jaideep Kewalramani), "Institute" (Zeel Institute of Management and Computer Application (ZIMCA), Pune), "Coaching" (Pratibha Coaching Classes), and "Qualification" (B.C.A.).
- Footer:** Windows taskbar with system tray showing 2:14 AM on 2/1/2020.



## 5) Program:

The screenshot displays a web browser window with the following details:

- Browser Tab:** Career Clinic Base Project
- Address Bar:** localhost:3000/enablerprogram:programType=SingleEnablerPrograms:enablerId=5c246c4dac811b001540bbd7:programId=5cc2f90939fe2500152f4879:programName...
- Page Title:** Career And Paths
- Page Content:**
  - Header:** B.E. Instrumentation & Control Engineering, By College of Engineering, Pune(COEP)
  - Navigation:** About Program, Batches, Eligibility, Comment, Resources, FAQ, Coaching Classes, Future Program, News
  - Program Details:**
    - University:** Savitribai Phule University of Pune
    - Level:** Bachelor's or graduate degree (3-5 years) with eligibility for Masters.
    - Program Duration:** 4 Year
    - Fees:** Program Fees Data Not Available
    - Program Seats:** Program Seats Data Not Available
    - Cutoff Scores:** Cutoff Score Data Not Available
    - 0 Counsellors**
    - 0 Coordinators**
  - MILESTONES:**
    - 01 Year:** Mentors, Students, Coaching Classes
    - 02 Year:** Mentors, Students, Coaching Classes
  - FEATURED:** (Empty section)

The Windows taskbar at the bottom shows the system time as 2:18 AM on 2/11/2020.

## 6) Mentor List:

The screenshot displays a web application interface for a 'Career Clinic Base Project'. The main content area is titled 'MENTOR LIST' and includes a search bar labeled 'Search Mentors'. Below the search bar, two mentor profiles are shown:

- Sudhir Agashe**: B.E., 4.5 rating, Pune, MH. Includes a 'Mentor' button.
- D.N. Sonawane**: 4.5 rating, Pune, MH. Includes a 'Buddy' button.

To the right, a 'FEATURED' sidebar lists several items:

- Jaideep Kewalramani**: Mentor
- Zeal Institute of Management and Computer Application(ZIMCA), Pune**: Institute
- Pratibha Coaching Classes**: Coaching
- B.C.A**: Qualification
- B.B.A Agree Business Management**: University
- Archana Patil**: Mentor

The browser's address bar shows the URL: localhost:3000/enablerprogram:programType=SingleEnablerPrograms:enablerId=5c246c4dac811b001540bbd7:programId=5cc2f90939fe2500152f4879:programName... The taskbar at the bottom shows the time as 2:19 AM on 2/1/2020.

## 7) Mentor:

The screenshot displays a web browser window with the address bar showing a localhost URL. The page title is "Career Clinic Base Project". The browser's address bar contains the URL: localhost:3000/userDashboard:tab=About:mentorId=5d0a1185deaf990015dcc9d1:formPage=dashboard-student. The browser's taskbar shows several open applications including Gmail, YouTube, and Google Maps.

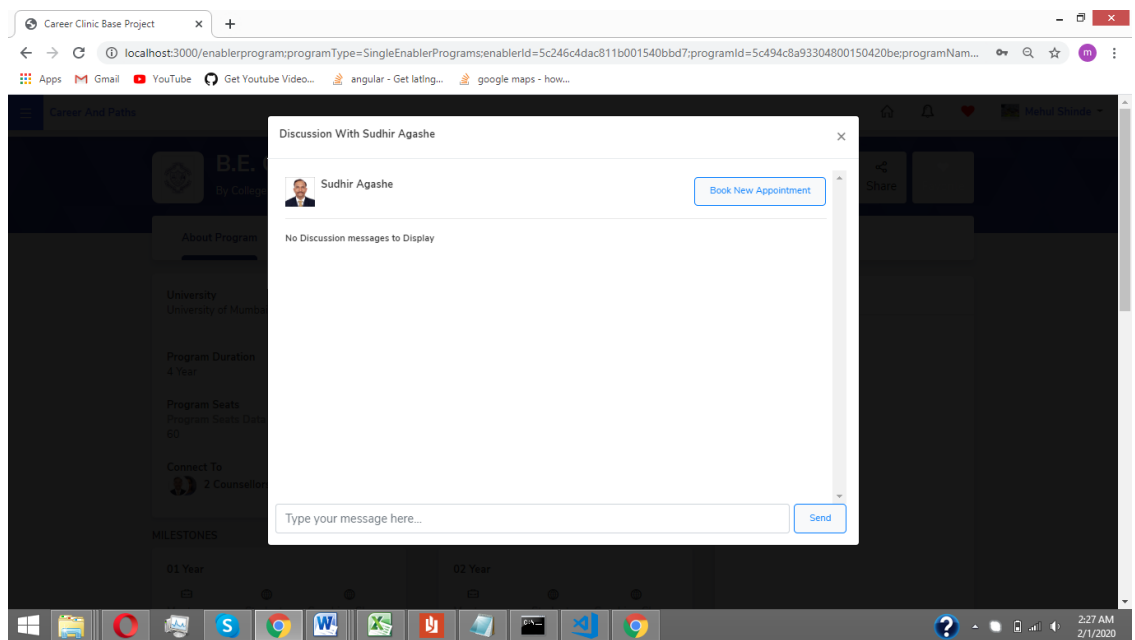
The web application interface features a blue header with the text "Career And Paths" and a user profile for "Mr. Sudhir Agashe". A "Become a Mentor" button is visible in the top right corner. The profile includes a circular profile picture and three tags: "Instrumentation", "B.E. Instrumentation & Control Engineering", and "B.E. Civil Engineering". Below the profile picture is a large empty rectangular box.

A navigation menu is located below the profile picture, with "Journey" selected. The main content area displays a list of educational and professional achievements:

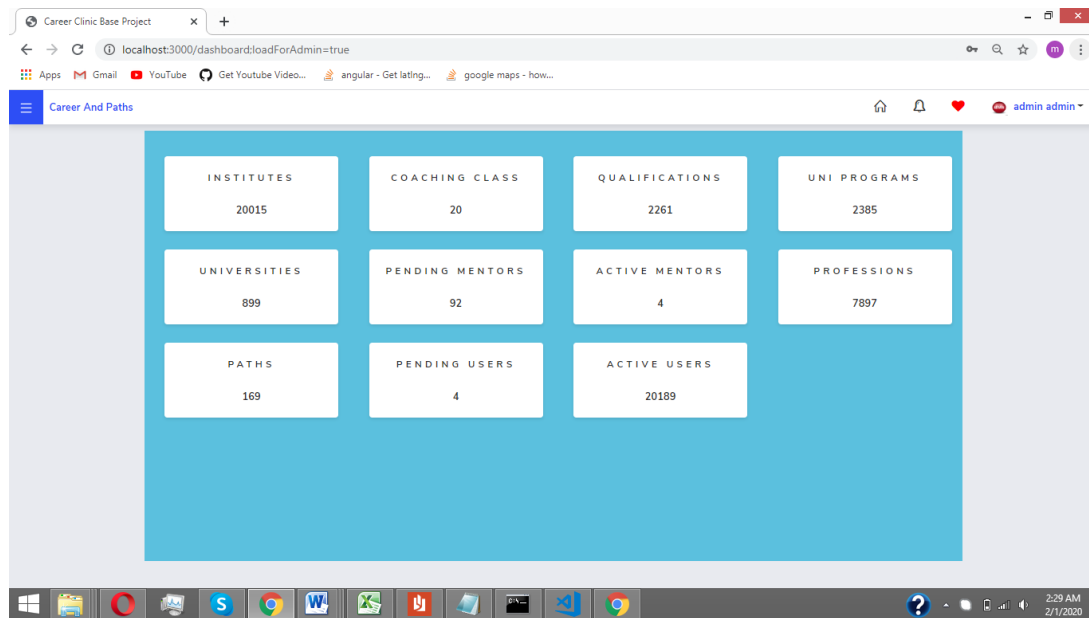
- Diploma in Electrical Engineering**  
Electrical Machines  
Govt. Polytechnic Karad  
1986 Completed
- B.E. Instrumentation & Control Engineering**  
Instrumentation & Control Engineering  
College of Engineering, Pune(COEP)  
1989 Completed
- Faculty member ( Instrumentation and Control)**  
COEP (College of Engineering, Pune)

The Windows taskbar at the bottom shows the system tray with the date and time: 2:20 AM, 2/1/2020.

## 8) Connect With Mentor:



## 9) Admin Dashboard:



## 10) Institute Resources:

The screenshot displays a web browser window with the following details:

- Browser Tab:** Career Clinic Base Project
- Address Bar:** localhost:3000/enabler-showcase=enabler=enabler-showcase=enablerId=5c246c4dac811b001540bbd7:fromPage=enablerSearch
- Page Title:** Career And Paths
- Navigation Menu:** About Us, Academic Programs, News, Resources (active), Institute Events, List-Club/List-Project
- Main Content:**
  - Video 1:** COLLEGE FEE, HOSTEL FEE, INTAKE, FACTS, PLACEMENT. Thumbnail text: 4000+VIEW, COLLEGE FEE, HOSTEL FEE, PLACEMENT, RANKING, INTAKE, EXAM, CAMPUS, COEP 2019 TOTAL INFORMATION.
  - Video 2:** COEP Review, placement, campus life, Admission process. Thumbnail text: College of Engg Pune (Coep), Honest Review, Placement | fees str, Hostel & College life, Admission process, And many More.
- Right Sidebar:**
  - FEATURED**
  - MENTOR:** Sudhir Agashe, B.E. Civil Engineering, See all 5 Mentors.
  - PROGRAMS:** B.E. Instrumentation & Control Engineering, See all 20 programs.
- Taskbar:** Windows taskbar with icons for File Explorer, Chrome, Word, and others. System tray shows 2:31 AM, 2/1/2020.

### 3.14 Data Dictionary

| <b>Sr.no</b> | <b>Field Name</b>       | <b>Data Type</b> | <b>Size</b> | <b>Table Name</b> |
|--------------|-------------------------|------------------|-------------|-------------------|
| 1.           | acronym                 | String           | 20          | Institute         |
| 2.           | activeMentees           | Number           | 20          | Mentor            |
| 3.           | Address                 | String           | 30          | University        |
| 4.           | address                 | String           | 30          | Institute         |
| 5.           | adminEmail              | String           | 30          | Institute         |
| 6.           | affiliatedUniversityIds | String           | 20          | Institute         |
| 7.           | affiliationDetails      | String           | 20          | Institute         |
| 8.           | affiliationId           | Number           | 5           | Application       |
| 9.           | Age                     | Number           | 2           | User              |
| 10.          | applNumber              | Number           | 10          | Application       |
| 11.          | applType                | String           | 10          | Application       |
| 12.          | authorityId             | String           | 20          | University        |
| 13.          | batchName               | String           | 20          | Application       |
| 14.          | batchNameKey            | Number           | 20          | Application       |
| 15.          | City                    | String           | 20          | University        |
| 16.          | cityName                | String           | 30          | Institute         |
| 17.          | contactNumber           | Number           | 10          | User              |
| 18.          | Countrycode             | String           | 2           | University        |
| 19.          | countryCode             | Number           | 3           | Institute         |
| 20.          | Countrycode             | String           | 2           | Program           |
| 21.          | Countryname             | String           | 20          | University        |
| 22.          | countryName             | String           | 20          | Institute         |
| 23.          | Created_at              | Date / Time      | 30          | University        |
| 24.          | Created_at              | Date / Time      | 30          | Institute         |
| 25.          | Created_at              | Date / Time      | 30          | Program           |
| 26.          | Created_at              | Date / Time      | 30          | Resource          |
| 27.          | Created_at              | Date / Time      | 30          | Mentor            |
| 28.          | Created_at              | Date / Time      | 30          | Application       |
| 29.          | CurrentAdress           | String           | 30          | User              |

|     |                     |             |    |              |
|-----|---------------------|-------------|----|--------------|
| 30. | currentSemester     | String      | 5  | Application  |
| 31. | delTyp              | String      | 20 | Program      |
| 32. | Description         | String      | 10 | University   |
| 33. | description         | String      | 10 | Institute    |
| 34. | description         | String      | 20 | Program      |
| 35. | details             | String      | 10 | Application  |
| 36. | discMsg             | String      | 20 | Institute    |
| 37. | divisionOrBatchName | String      | 10 | Application  |
| 38. | Dob                 | Date / Time | 10 | User         |
| 39. | durationUnit        | Number      | 20 | Program      |
| 40. | email               | String      | 30 | Login Master |
| 41. | Email               | String      | 10 | User         |
| 42. | email               | String      | 30 | Institute    |
| 43. | enablerId           | Number      | 20 | Program      |
| 44. | enablerId           | Number      | 20 | Application  |
| 45. | enablerProgramId    | Number      | 20 | Application  |
| 46. | Enablers            | Number      | 10 | University   |
| 47. | Enhancers           | Number      | 20 | University   |
| 48. | enrollmentNumber    | Number      | 10 | Application  |
| 49. | entity              | String      | 10 | Application  |
| 50. | entityId            | Number      | 20 | Resource     |
| 51. | entityType          | String      | 20 | Resource     |
| 52. | establishmentDate   | Date / Time | 10 | University   |
| 53. | facilities          | String      | 10 | Institute    |
| 54. | faqs                | String      | 20 | Institute    |
| 55. | featured            | String      | 20 | Institute    |
| 56. | featured            | String      | 20 | Mentor       |
| 57. | FirstName           | String      | 20 | User         |
| 58. | firstName           | String      | 20 | Mentor       |
| 59. | firstName           | String      | 10 | Application  |
| 60. | Foes                | String      | 20 | University   |
| 61. | foes                | String      | 20 | Institute    |
| 62. | Gender              | String      | 10 | User         |
| 63. | hashedPassword      | String      | 30 | User         |



|     |                    |             |    |             |
|-----|--------------------|-------------|----|-------------|
| 64. | ID                 | objectId    | 10 | University  |
| 65. | ID                 | objectId    | 10 | Institute   |
| 66. | ID                 | objectId    | 10 | Program     |
| 67. | ID                 | objectId    | 10 | Resource    |
| 68. | ID                 | objectId    | 10 | Application |
| 69. | imagePath          | String      | 20 | Mentor      |
| 70. | imagePath          | String      | 2  | Application |
| 71. | instituteMentors   | String      | 20 | Program     |
| 72. | instituteName      | String      | 20 | Application |
| 73. | intake             | Number      | 30 | Program     |
| 74. | interestedStudents | Number      | 10 | University  |
| 75. | keywords           | String      | 20 | Program     |
| 76. | keywords           | String      | 20 | Mentor      |
| 77. | LastName           | String      | 10 | User        |
| 78. | lastName           | String      | 20 | Mentor      |
| 79. | lastName           | String      | 2  | Application |
| 80. | levelTags          | String      | 20 | University  |
| 81. | levelTags          | String      | 10 | Institute   |
| 82. | Loes               | String      | 30 | University  |
| 83. | loes               | String      | 30 | Institute   |
| 84. | logo_thumbnail     | String      | 10 | University  |
| 85. | logo_thumbnail     | String      | 10 | Institute   |
| 86. | logoUrl            | String      | 10 | University  |
| 87. | logoUrl            | String      | 10 | Institute   |
| 88. | logoUrl            | String      | 30 | Application |
| 89. | mentorId           | objectId    | 10 | Mentor      |
| 90. | mentorOfId         | String      | 20 | Mentor      |
| 91. | mentorOfType       | String      | 10 | Mentor      |
| 92. | Mentors            | Number      | 20 | University  |
| 93. | mentorSince        | Date / Time | 10 | Mentor      |
| 94. | MiddleName         | String      | 30 | User        |
| 95. | mission            | String      | 10 | Institute   |
| 96. | name               | String      | 2  | Institute   |
| 97. | name               | String      | 10 | Program     |

|      |                    |             |    |              |
|------|--------------------|-------------|----|--------------|
| 98.  | narration          | String      | 20 | Resource     |
| 99.  | narration          | String      | 10 | Mentor       |
| 100. | parentEntity       | String      | 10 | Application  |
| 101. | parentId           | Number      | 10 | Resource     |
| 102. | parentType         | String      | 10 | Resource     |
| 103. | passoutYear        | Date / Time | 4  | Application  |
| 104. | password           | String      | 10 | Login Master |
| 105. | pdf                | String      | 20 | Resource     |
| 106. | permanatAdress     | String      | 30 | User         |
| 107. | photogallery       | String      | 20 | Institute    |
| 108. | programAward       | String      | 10 | Program      |
| 109. | programDuration    | Number      | 10 | Program      |
| 110. | programName        | String      | 20 | Application  |
| 111. | Programs           | Number      | 10 | University   |
| 112. | programSummaryText | String      | 20 | Institute    |
| 113. | programType        | String      | 10 | Program      |
| 114. | ratings            | String      | 10 | Mentor       |
| 115. | resources          | String      | 20 | Institute    |
| 116. | resourceType       | String      | 20 | Resource     |
| 117. | Salutaion          | String      | 20 | User         |
| 118. | salutation         | String      | 2  | Mentor       |
| 119. | salutation         | String      | 10 | Application  |
| 120. | Statecode          | String      | 20 | University   |
| 121. | stateName          | String      | 30 | Institute    |
| 122. | status             | String      | 2  | Mentor       |
| 123. | status             | String      | 5  | Application  |
| 124. | submittedBy        | String      | 10 | Application  |
| 125. | summary            | String      | 10 | Institute    |
| 126. | tags               | String      | 30 | Resource     |
| 127. | title              | String      | 20 | Resource     |
| 128. | titleKey           | String      | 20 | Resource     |
| 129. | totalMentees       | Number      | 5  | Mentor       |
| 130. | totalPrograms      | Number      | 10 | Institute    |
| 131. | totalStudents      | Number      | 10 | Institute    |

|      |                |             |    |             |
|------|----------------|-------------|----|-------------|
| 132. | Type           | String      | 20 | University  |
| 133. | Typedetail     | String      | 20 | University  |
| 134. | ugcNumbers     | Number      | 10 | University  |
| 135. | universityId   | Number      | 20 | Program     |
| 136. | universityName | String      | 20 | Program     |
| 137. | Updated_at     | Date / Time | 20 | University  |
| 138. | Updated_at     | Date / Time | 20 | Institute   |
| 139. | Updated_at     | Date / Time | 20 | Program     |
| 140. | Updated_at     | Date / Time | 20 | Resource    |
| 141. | Updated_at     | Date / Time | 20 | Mentor      |
| 142. | Updated_at     | Date / Time | 20 | Application |
| 143. | url            | String      | 10 | Resource    |
| 144. | urlLabel       | String      | 10 | Resource    |
| 145. | userId         | Number      | 20 | Application |
| 146. | vision         | String      | 10 | Institute   |
| 147. | yearEnrolled   | Date / Time | 10 | Application |
| 148. | zipCode        | Number      | 6  | Institute   |

### 3.15 Table specifications

Here mongo DB is non SQL database so, Assume table as collection and row as document.

| <b>Table 1: Login Master</b> |                  |             |                    |                          |
|------------------------------|------------------|-------------|--------------------|--------------------------|
| <b>Field</b>                 | <b>Data Type</b> | <b>Size</b> | <b>Constraints</b> | <b>Description</b>       |
| email                        | String           | 30          | Unique Key         | Email of the Customer    |
| password                     | String           | 10          | Not Null           | Password of the Customer |

| <b>Table 2: User</b> |                  |             |                    |                      |
|----------------------|------------------|-------------|--------------------|----------------------|
| <b>Field</b>         | <b>Data Type</b> | <b>Size</b> | <b>Constraints</b> | <b>Description</b>   |
| Salutaion            | String           | 20          | Not Null           | Salutation of user   |
| FirstName            | String           | 20          | Not Null           | First Name of user   |
| MiddleName           | String           | 30          | Not Null           | Middle Name of user  |
| LastName             | String           | 10          | Not Null           | Phone Number of user |
| Age                  | Number           | 2           | Not Null           | Age of the user      |
| Gender               | String           | 10          | Not Null           | Gender of the user   |
| Dob                  | Date / Time      | 10          | Not Null           | Date of birth        |
| Email                | String           | 10          | Unique Key         | Email                |
| contactNumber        | Number           | 10          | Not Null           | Contact number       |
| CurrentAddress       | String           | 30          | Not Null           | Current address      |
| permanatAddress      | String           | 30          | Not Null           | Permanent address    |
| hashedPassword       | String           | 30          | Not Null           | password             |

| <b>Table 3: University</b> |                  |             |                    |                      |
|----------------------------|------------------|-------------|--------------------|----------------------|
| <b>Field</b>               | <b>Data Type</b> | <b>Size</b> | <b>Constraints</b> | <b>Description</b>   |
| ID                         | objectId         | 10          | Unique Key         | Unique university id |
| Created_at                 | Date / Time      | 30          | Not Null           | Created at date      |
| Updated_at                 | Date / Time      | 20          | Not Null           | Upadated at date     |
| Countrycode                | String           | 2           | Not Null           | Country Code         |
| Countryname                | String           | 20          | Not Null           | Country Name         |
| Statecode                  | String           | 20          | Not Null           | State Code           |
| authorityId                | String           | 20          | Not Null           | Authority Id         |
| Type                       | String           | 20          | Not Null           | Type of University   |
| Typedetail                 | String           | 20          | Not Null           | Detail of type       |
| Address                    | String           | 30          | Not Null           | Address              |
| City                       | String           | 20          | Not Null           | City                 |
| establishmentDate          | Date / Time      | 10          | Not Null           | Establishment Year   |
| Programs                   | Number           | 10          | Not Null           | Programs Count       |
| interestedStudents         | Number           | 10          | Not Null           | Intrested Students   |
| Enablers                   | Number           | 10          | Not Null           | Institutes           |
| Enhancers                  | Number           | 20          | Not Null           | Coaching Classes     |
| Mentors                    | Number           | 20          | Not Null           | Mentors              |
| levelTags                  | String           | 20          | Not Null           | Tags                 |
| Loes                       | String           | 30          | Not Null           | Level of education   |
| Foes                       | String           | 20          | Not Null           | Field of Education   |
| Description                | String           | 10          | Not Null           | Description          |
| logoUrl                    | String           | 10          | Not Null           | Logo                 |
| logo_thumbnail             | String           | 10          | Not Null           | Logo                 |
| ugcNumbers                 | Number           | 10          | Not Null           | Ugc Number           |

| <b>Table 4: Institute</b> |                  |             |                    |                     |
|---------------------------|------------------|-------------|--------------------|---------------------|
| <b>Field</b>              | <b>Data Type</b> | <b>Size</b> | <b>Constraints</b> | <b>Description</b>  |
| ID                        | objectId         | 10          | Unique Key         | Unique Institute id |
| Created_at                | Date / Time      | 30          | Not Null           | Created at date     |
| Updated_at                | Date / Time      | 20          | Not Null           | Upadated at date    |
| name                      | String           | 2           | Not Null           | Name of institute   |
| acronym                   | String           | 20          | Not Null           | acronym             |
| programSummaryText        | String           | 20          | Not Null           | Program Summary     |
| discMsg                   | String           | 20          | Not Null           | description         |
| resources                 | String           | 20          | Not Null           | resources           |
| faqs                      | String           | 20          | Not Null           | faqs                |
| loes                      | String           | 30          | Not Null           | Level of education  |
| foes                      | String           | 20          | Not Null           | Field of Education  |
| levelTags                 | String           | 10          | Not Null           | Level Tags          |
| mission                   | String           | 10          | Not Null           | mission             |
| vision                    | String           | 10          | Not Null           | vision              |
| description               | String           | 10          | Not Null           | description         |
| photogallery              | String           | 20          | Not Null           | Photo gallery       |
| affiliationDetails        | String           | 20          | Not Null           | Affiliation Details |
| affiliatedUniversityIds   | String           | 20          | Not Null           | University Ids      |
| adminEmail                | String           | 30          | Not Null           | Admin Email         |
| featured                  | String           | 20          | Not Null           | featured            |
| summary                   | String           | 10          | Not Null           | summary             |
| logo_thumbnail            | String           | 10          | Not Null           | Logo                |
| logoUrl                   | String           | 10          | Not Null           | Logo                |
| totalPrograms             | Number           | 10          | Not Null           | Total Programs      |
| totalStudents             | Number           | 10          | Not Null           | Total Students      |
| facilities                | String           | 10          | Not Null           | facilities          |
| address                   | String           | 30          | Not Null           | address             |
| email                     | String           | 30          | Not Null           | email               |
| zipCode                   | Number           | 6           | Not Null           | Zip Code            |
| cityName                  | String           | 30          | Not Null           | City Name           |
| stateName                 | String           | 30          | Not Null           | State Name          |
| countryName               | String           | 20          | Not Null           | Country Name        |

|             |        |   |          |              |
|-------------|--------|---|----------|--------------|
| countryCode | Number | 3 | Not Null | Country Code |
|-------------|--------|---|----------|--------------|

| <b>Table 5: Program</b> |                  |             |                    |                    |
|-------------------------|------------------|-------------|--------------------|--------------------|
| <b>Field</b>            | <b>Data Type</b> | <b>Size</b> | <b>Constraints</b> | <b>Description</b> |
| ID                      | objectId         | 10          | Unique Key         | Unique program id  |
| Created_at              | Date / Time      | 30          | Not Null           | Created at date    |
| Updated_at              | Date / Time      | 20          | Not Null           | Updated at date    |
| Countrycode             | String           | 2           | Not Null           | Country Code       |
| delTyp                  | String           | 20          | Not Null           | Delivery type      |
| description             | String           | 20          | Not Null           | description        |
| durationUnit            | Number           | 20          | Not Null           | Duration Unit      |
| enablerId               | Number           | 20          | Not Null           | Institute Id       |
| instituteMentors        | String           | 20          | Not Null           | Institute Mentors  |
| intake                  | Number           | 30          | Not Null           | intake             |
| keywords                | String           | 20          | Not Null           | keywords           |
| name                    | String           | 10          | Not Null           | name               |
| programAward            | String           | 10          | Not Null           | Program Award      |
| programDuration         | Number           | 10          | Not Null           | Program Duration   |
| programType             | String           | 10          | Not Null           | Program Type       |
| universityId            | Number           | 20          | Not Null           | University Id      |
| universityName          | String           | 20          | Not Null           | University Name    |

| <b>Table 6: Resource</b> |                  |             |                    |                    |
|--------------------------|------------------|-------------|--------------------|--------------------|
| <b>Field</b>             | <b>Data Type</b> | <b>Size</b> | <b>Constraints</b> | <b>Description</b> |
| ID                       | objectId         | 10          | Unique Key         | Unique resource id |
| Created_at               | Date / Time      | 30          | Not Null           | Created at date    |

|              |             |    |          |                       |
|--------------|-------------|----|----------|-----------------------|
| Updated_at   | Date / Time | 20 | Not Null | Updated at date       |
| title        | String      | 20 | Not Null | title                 |
| narration    | String      | 20 | Not Null | narration             |
| titleKey     | String      | 20 | Not Null | Title Key             |
| entityId     | Number      | 20 | Not Null | Program Id            |
| entityType   | String      | 20 | Not Null | Institute or Coaching |
| pdf          | String      | 20 | Not Null | pdf                   |
| tags         | String      | 30 | Not Null | tags                  |
| resourceType | String      | 20 | Not Null | Resource Type         |
| url          | String      | 10 | Not Null | url                   |
| urlLabel     | String      | 10 | Not Null | url Label             |
| parentId     | Number      | 10 | Not Null | Institute Id          |
| parentType   | String      | 10 | Not Null | Institute             |

| <b>Table 7: Mentor</b> |                  |             |                    |                    |
|------------------------|------------------|-------------|--------------------|--------------------|
| <b>Field</b>           | <b>Data Type</b> | <b>Size</b> | <b>Constraints</b> | <b>Description</b> |
| mentorId               | objectId         | 10          | Unique Key         | Unique mentor id   |
| Created_at             | Date / Time      | 30          | Not Null           | Created at date    |
| Updated_at             | Date / Time      | 20          | Not Null           | Updated at date    |
| activeMentees          | Number           | 20          | Not Null           | Active Mentees     |
| featured               | String           | 20          | Not Null           | featured           |
| firstName              | String           | 20          | Not Null           | First Name         |
| imagePath              | String           | 20          | Not Null           | Image Path         |
| keywords               | String           | 20          | Not Null           | keywords           |
| lastName               | String           | 20          | Not Null           | Last Name          |
| mentorOfId             | String           | 20          | Not Null           | Mentor Of Id       |
| mentorOfType           | String           | 10          | Not Null           | Mentor Of Type     |



|              |             |    |          |               |
|--------------|-------------|----|----------|---------------|
| mentorSince  | Date / Time | 10 | Not Null | Mentor Since  |
| narration    | String      | 10 | Not Null | narration     |
| ratings      | String      | 10 | Not Null | ratings       |
| salutation   | String      | 2  | Not Null | salutation    |
| status       | String      | 2  | Not Null | status        |
| totalMentees | Number      | 5  | Not Null | Total Mentees |

| <b>Table 8: Application</b> |                  |             |                    |                       |
|-----------------------------|------------------|-------------|--------------------|-----------------------|
| <b>Field</b>                | <b>Data Type</b> | <b>Size</b> | <b>Constraints</b> | <b>Description</b>    |
| ID                          | objectId         | 10          | Unique Key         | Unique Application id |
| Created_at                  | Date / Time      | 30          | Not Null           | Created at date       |
| Updated_at                  | Date / Time      | 20          | Not Null           | Upadated at date      |
| enablerId                   | Number           | 20          | Not Null           | Institute Id          |
| enablerProgramId            | Number           | 20          | Not Null           | Program id            |
| instituteName               | String           | 20          | Not Null           | Institute Name        |
| programName                 | String           | 20          | Not Null           | Program Name          |
| userId                      | Number           | 20          | Not Null           | User id               |
| batchNameKey                | Number           | 20          | Not Null           | Batch Name key        |
| batchName                   | String           | 20          | Not Null           | Batch name            |
| submittedBy                 | String           | 10          | Not Null           | Submitted by          |
| yearEnrolled                | Date / Time      | 10          | Not Null           | Year enrolled         |
| salutation                  | String           | 10          | Not Null           | salutation            |
| firstName                   | String           | 10          | Not Null           | First Name            |
| lastName                    | String           | 2           | Not Null           | Last name             |
| imagePath                   | String           | 2           | Not Null           | Image                 |
| affiliationId               | Number           | 5           | Not Null           | Affiliation           |
| applType                    | String           | 10          | Not Null           | type                  |
| status                      | String           | 5           | Not Null           | status                |
| passoutYear                 | Date / Time      | 4           | Not Null           | Passout year          |
| currentSemester             | String           | 5           | Not Null           | Current semester      |
| divisionOrBatchName         | String           | 10          | Not Null           | Batch name            |

|                  |        |    |          |                    |
|------------------|--------|----|----------|--------------------|
| enrollmentNumber | Number | 10 | Not Null | number             |
| applNumber       | Number | 10 | Not Null | Application number |
| details          | String | 10 | Not Null | details            |
| entity           | String | 10 | Not Null | entity             |
| parentEntity     | String | 10 | Not Null | institute          |
| logoUrl          | String | 30 | Not Null | logo               |

## **3.16 Test Procedures and Implementation**

### **Test Procedure:**

#### **1. Unit Testing**

Unit testing concentrates verification on the smallest element of the program – the module. Using the detailed design description important control paths are tested to establish errors within the bounds of the module.

In this system each sub module is tested individually as per the unit testing such as campaign, lead, contact etc. are tested individually. Their input field validations are tested.

#### **2. Integration testing**

Once all the individual units have been tested there is a need to test how they were put together to ensure no data is lost across

interface, one module does not have an adverse impact on another and a function is not performed correctly.

After unit testing each and every sub module is tested with integrating each other.

### **Test Cases:**

Test cases are built around specifications and requirements, i.e., what the application is supposed to do. Test cases are generally derived from external descriptions of the software, including specifications, requirements and design parameters. The test designer selects both valid and invalid inputs and determines the correct output without any knowledge of the test object's internal structure.

### **Test Design Techniques**

Typical black-box test design techniques include:

- Decision table testing
- All-pairs testing
- State transition Analysis
- Equivalence partitioning
- Boundary value analysis

### **Advantages**

- Efficient when used on large systems.
- Since the tester and developer are independent of each other, testing is balanced and unprejudiced.
- Tester can be non-technical.
- There is no need for the tester to have detailed functional knowledge of system.

## **Disadvantages**

- Test cases are challenging to design without having clear functional specifications.
- It is difficult to identify tricky inputs if the test cases are not developed based on specifications.
- It is difficult to identify all possible inputs in limited testing time. As a result, writing test cases may be slow and difficult.

## Test Cases

### 1. Test Case for Login:

| <b>Sr. no</b> | <b>Test Input</b>          | <b>Action</b>   | <b>Expected output</b>                          | <b>Actual Result</b>                            | <b>Status</b> |
|---------------|----------------------------|---|---|---|---------------|
| 1.            | Invalid email and Password | 1. Enter Invalid Email and Password<br>2. Press Login       | “Invalid Email or Password” is displayed.       | “Invalid Email or Password” is displayed.       | Pass          |
| 2.            | Blank TextBoxes            | 1. Directly Press Login                                     | “Please Enter email and Password” is displayed. | “Please Enter email and Password” is displayed. | Pass          |
| 3.            | Valid email And Password   | 1. Enter Valid Email and Password<br>2. Press Login         | Login Successfully And Home Page is displayed   | Login Successfully And Home Page is displayed   | Pass          |
| 4.            | Invalid Password           | 1. Enter Valid Email and Invalid Password<br>2. Press Login | “Invalid Email or Password” is displayed.       | “Invalid Email or Password” is displayed.       | Pass          |

## 2. Test Case for Registration:

| <b>Sr. no</b> | <b>Test Input</b>                      | <b>Action</b>  | <b>Expected output</b>                  | <b>Actual Result</b>               | <b>Status</b> |
|---------------|--|--|---|------------------------------------|---------------|
| 1.            | Blank First Name                       | 1. Press Done  | “Missing First Name” is displayed.      | “Missing First Name” is displayed. | Pass          |
| 2.            | Blank Last Name                        | 1. Press Done  | “Missing Last Name” is displayed.       | “Missing Last Name” is displayed.  | Pass          |
| 3.            | Blank Email                            | 1. Press Done  | “Missing Email” is displayed.           | “Missing Email” is displayed.      | Pass          |
| 4.            | Password And Confirm Password Mismatch | 1. Enter Password and Confirm Password different<br><br>2. Press Login | “Password Mismatch” is displayed.       | “Password Mismatch” is displayed.  | Pass          |
| 5             | Area of interest search                | 1. Enter area of interest in search<br>example:-<br>Photography        | Relevant Area of Interest gets Selected | Area of Interest is Selected       | Pass          |



### 3. Test Case for Institute Programs:

| <b>Sr. no</b> | <b>Test Input</b>         | <b>Action</b>  | <b>Expected output</b>                                       | <b>Actual Result</b>  | <b>Status</b> |
|---------------|---------------------------|--|--|---|---------------|
| 1.            | Program Search            | 1. Enter the Program name to Search<br>2. Press enter                      | Program List with Relevant Program Name is displayed.        | Program List with Relevant Program Name is displayed.         | Pass          |
| 2.            | Institute program Search  | 1. Enter the Institute name to Search Programs<br>2. Press enter           | Program List with Relevant Institute Name is displayed.      | Program List with Relevant Institute Name is displayed.       | Pass          |
| 3.            | Apply Filter for Search   | 1. Select the field of Education and level of education.<br>2. Press Apply | Program list matching to the filter applied is displayed.    | Program list matching to the filter applied is displayed.     | Pass          |
| 4.            | Apply Location for Search | 1. Select the Countries and cities for search<br>2. Press Apply            | Program list matching to the Countries, Cities is displayed. | Program list matching to the Countries, Cities is displayed.. | Pass          |

#### 4. Test Case for Mentors:

| <b>Sr. no</b> | <b>Test Input</b>         | <b>Action</b>   | <b>Expected output</b>                                      | <b>Actual Result</b>  | <b>Status</b> |
|---------------|---------------------------|---|---|---|---------------|
| 1.            | Mentor Search             | 1. Enter the mentor name to Search<br>2. Press enter                                  | Mentor List with Relevant Mentor Name is displayed.         | Mentor List with Relevant Mentor Name is displayed.         | Pass          |
| 2.            | Apply Filter for Search   | 1. Select the field of Education and level of education for mentor.<br>2. Press Apply | Mentor list matching to the filter applied is displayed.    | Mentor list matching to the filter applied is displayed.    | Pass          |
| 3.            | Apply Location for Search | 1. Select the Countries and cities for search for Mentors<br>2. Press Apply           | Mentor list matching to the Countries, Cities is displayed. | Mentor list matching to the Countries, Cities is displayed. | Pass          |

## **Implementation Specification**

### **a) Training:**

The analyst process an accurate assessment of the users that must be trained. The training strategic to be used to depend on who to be trained and who will train them.

### **Whom to train:**

All the people who have the primary / secondary use of the system. It goes to the data entry personnel to all the system users even those who will not come to contact with the hardware. The amount of training depends on how much one job will change because of the new system. Users of different key level and job difference must be separated.

### **Below are some of training guidelines:**

- Establish measurable objectives

- Use appropriate training methods
- Select suitable training site
- Employee understandable training material

### **System Change over:**

#### **Types of system change over**

- Direct change over
- Parallel change over

#### **1) Direct change over:**

This means on a specified date the old system is dropped and replaced with a new system

#### **Disadvantages:**

- Long delays might occur since there is no possibility of reverting
- Users may resist to use unfamiliar system

- There is no adequate way to compare new and old system

**Parallel Change over:**

It refers to the running of an old and new system at the same time.

Once the new system is proved reliable, the old system is drop.

**Advantages:**

- There is more security when the new system fails then you can revert to the new system
- There is adequate way to compare new and old system

**Disadvantages:**

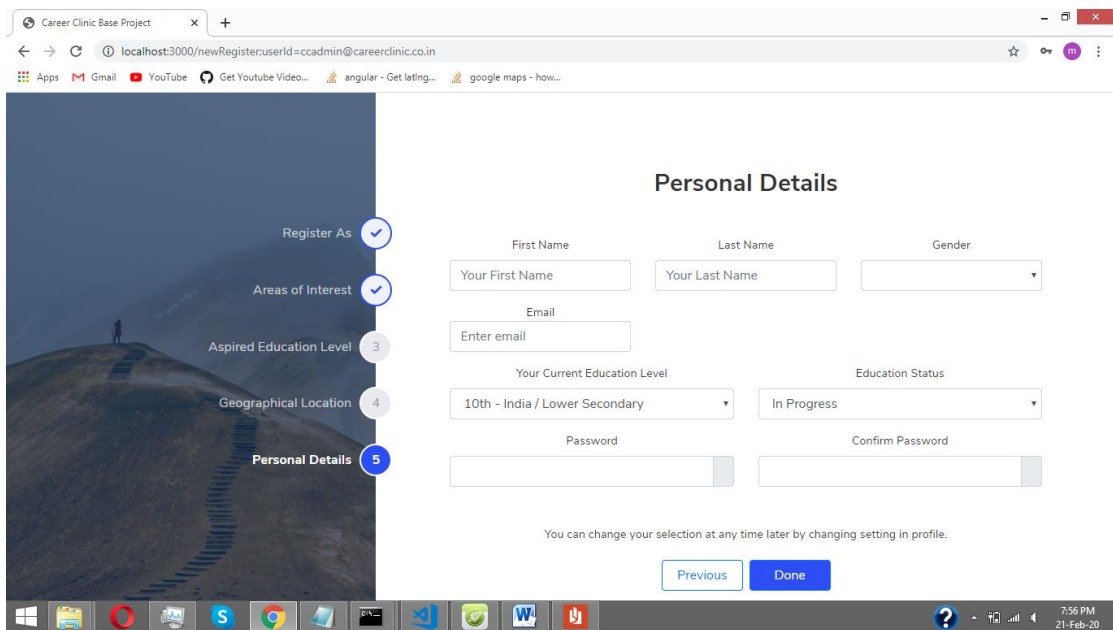
- Expensive to run both two system at the same time
- Very difficult to compare the out together

## **Chapter 4: User Manual**

## 4.1 User Manual

### 1) Manual for User:

### User Registration

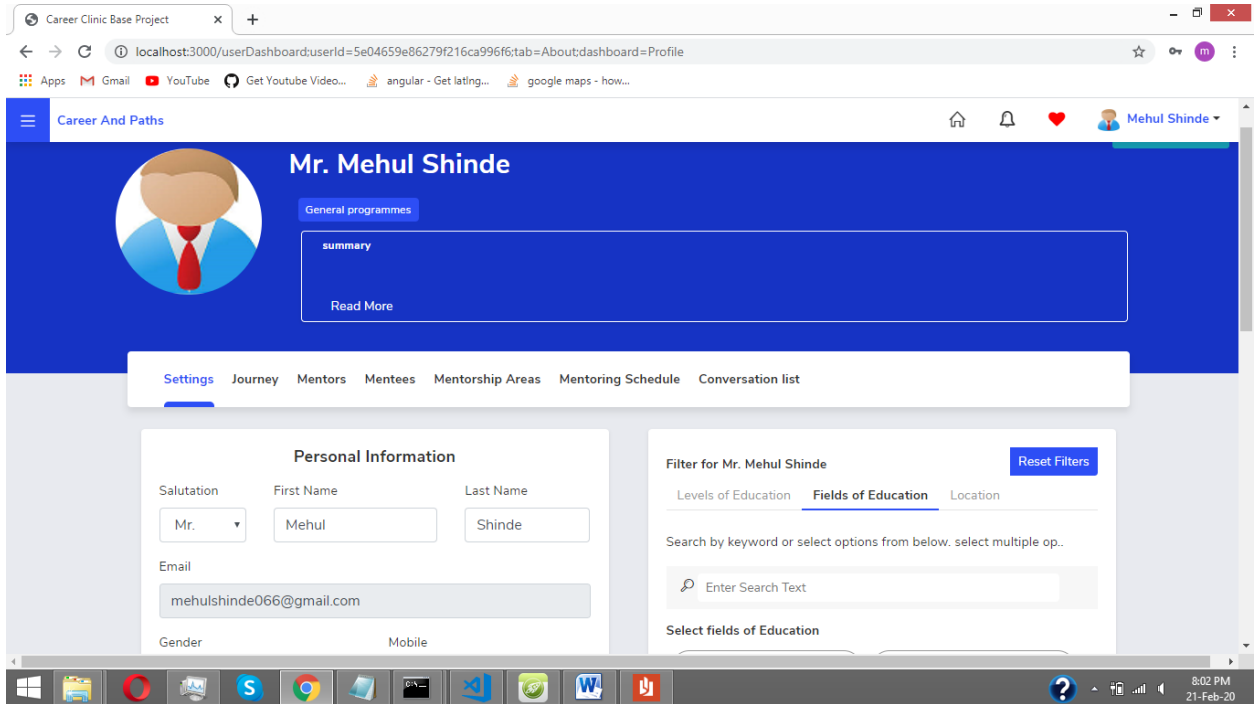


The screenshot shows a web browser window with the URL `localhost:3000/newRegister?userId=ccadmin@careerclinic.co.in`. The page displays a registration form titled "Personal Details" with a sidebar menu on the left. The sidebar menu includes "Register As" (checked), "Areas of Interest" (checked), "Aspired Education Level" (3), "Geographical Location" (4), and "Personal Details" (5, highlighted). The form fields are:

- First Name:
- Last Name:
- Gender:
- Email:
- Your Current Education Level:
- Education Status:
- Password:
- Confirm Password:

Below the form, there is a note: "You can change your selection at any time later by changing setting in profile." and two buttons: "Previous" and "Done".

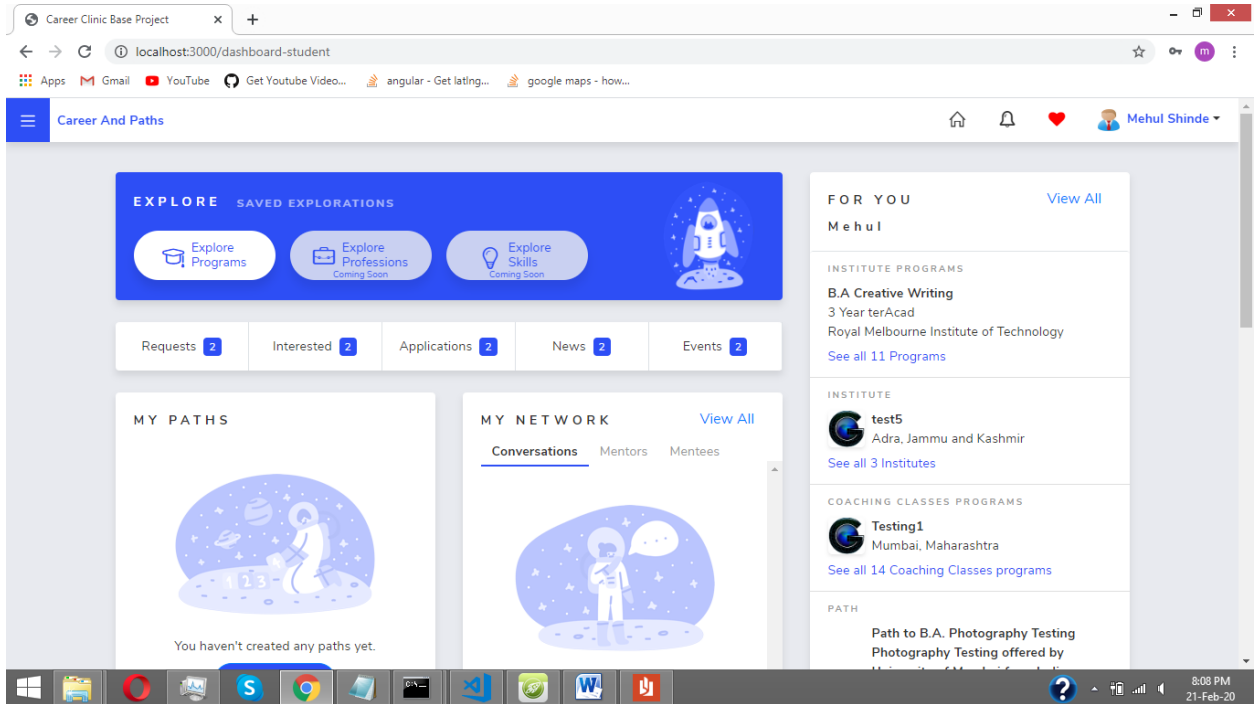
- to use the system the user have to first register themselves on the
- to use the system the user have to first register themselves on the system,



## Setting Profile

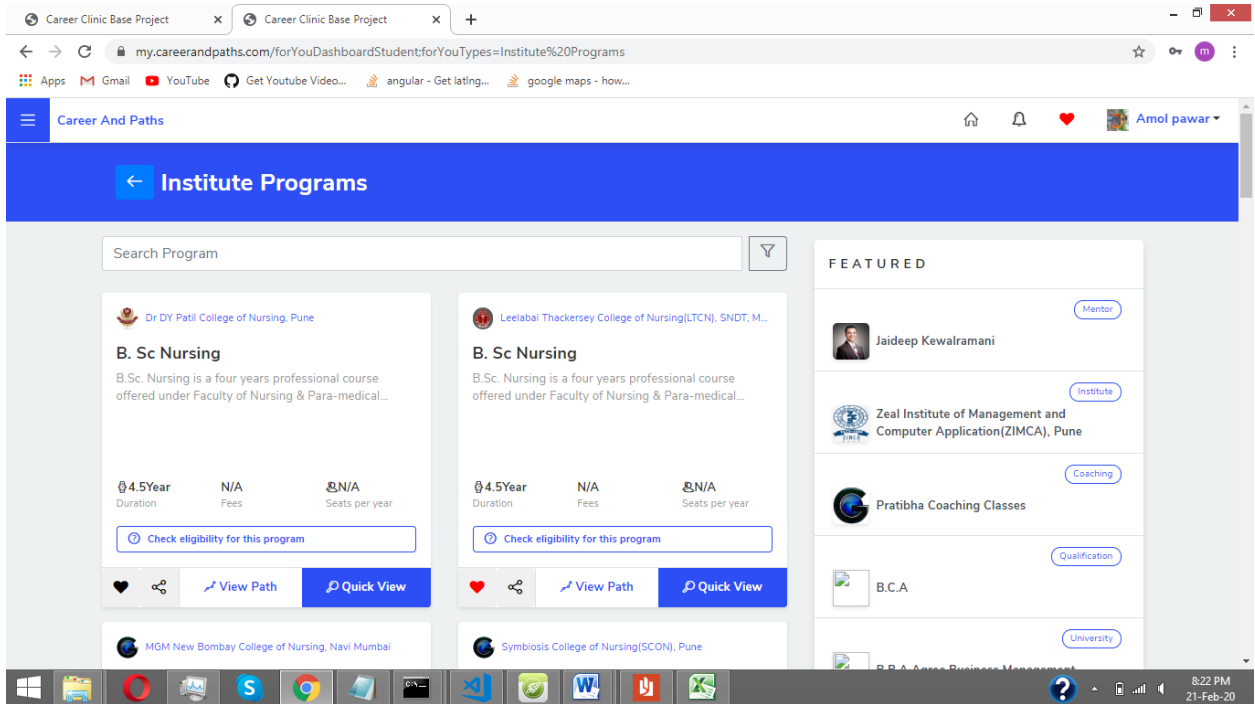
- User can set the profile details as per choice and interests in field of education etc.
- Filter can be set for the user profile, which will help to get the relevant information data for the user.
- In filter user can set the field of education, level of education, location .





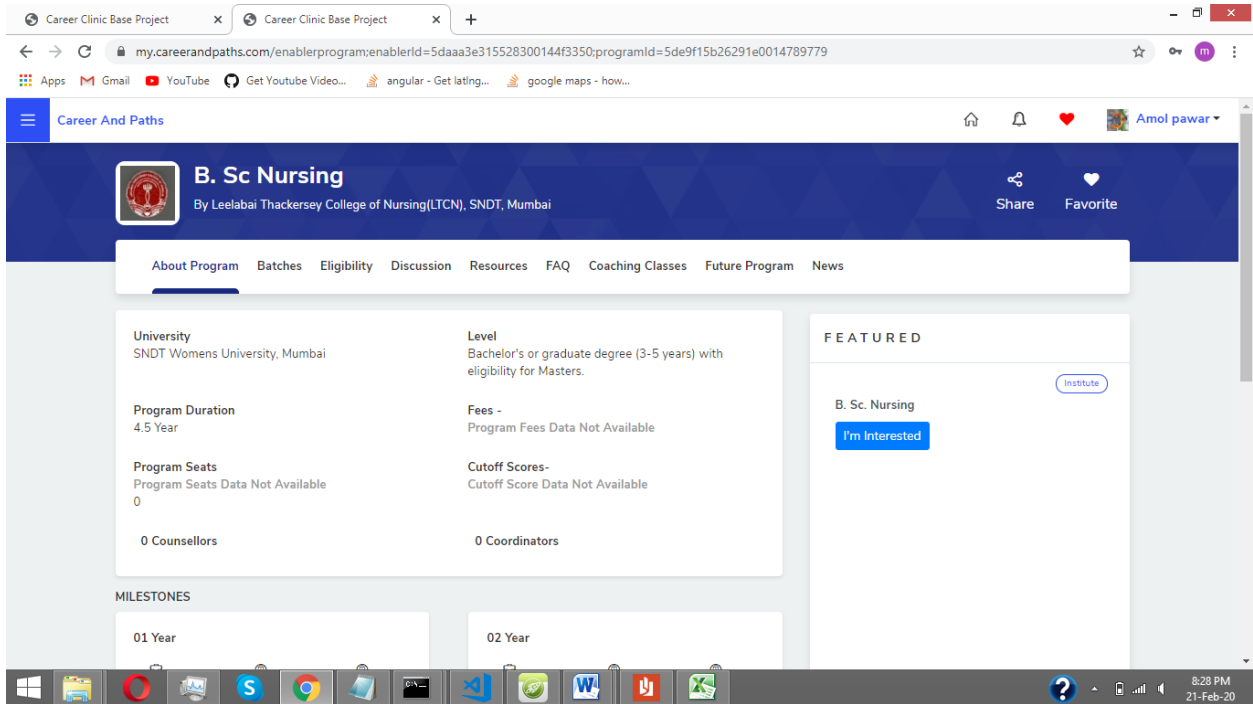
## Exploring Dashboard

- User can explore various options on dashboard page, Programs, Institutes, And other data is provided to the user .
- User can navigate to various pages from the dashboard for the detailed information.
- Various programs paths can be explored on click of the Start Exploring Button.



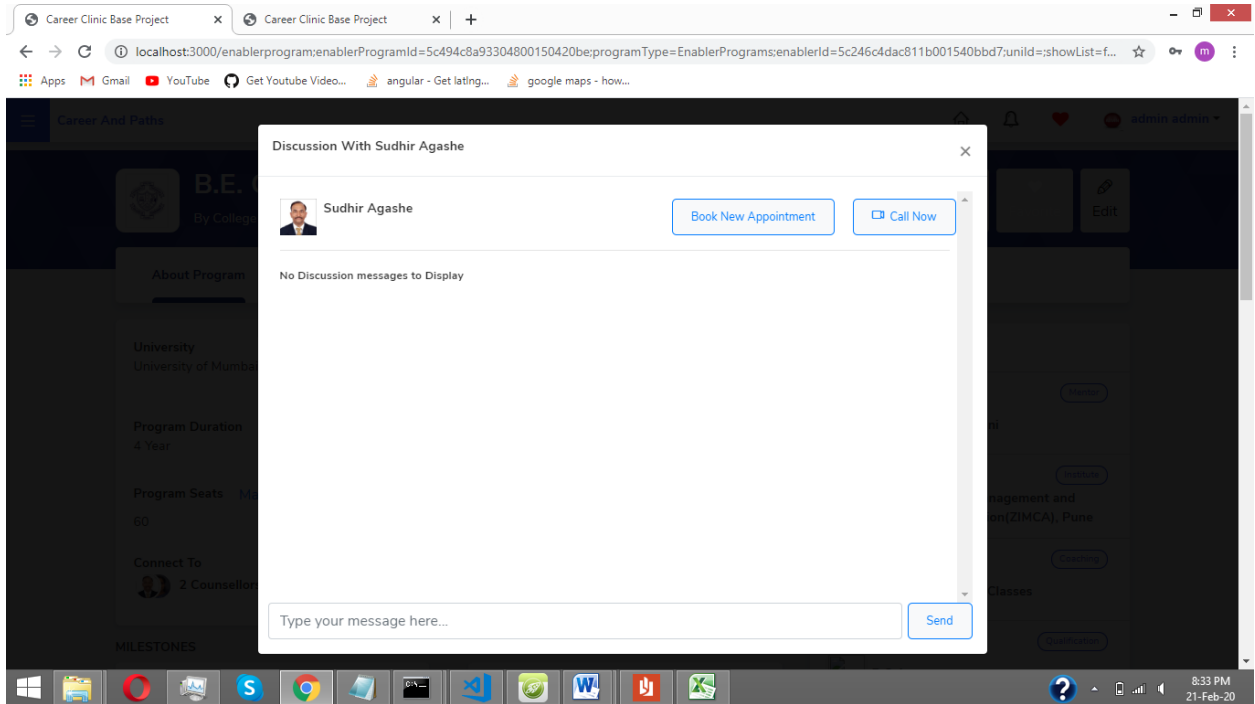
## Institute Programs

- User can explore various institute programs as per the interest, from various field of education and various locations around the world.
- User can search the institute program by institute name or the institute program name and get the relevant information as per the filter set.



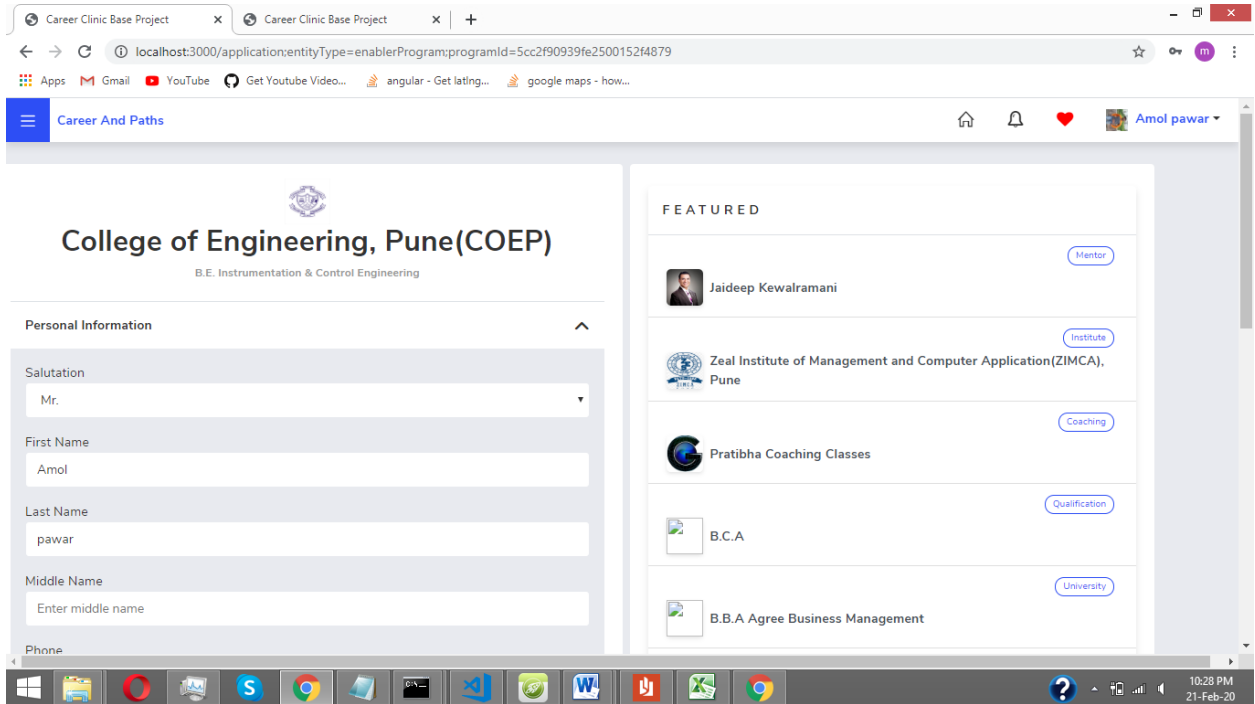
## Program View

- User can get the information regarding the program in detail.
- Discussion regarding the program can be seen by the user.
- Eligibility criteria details about the program can be seen.
- Resources provided by the institute can be seen and useful information is made possible to the user.



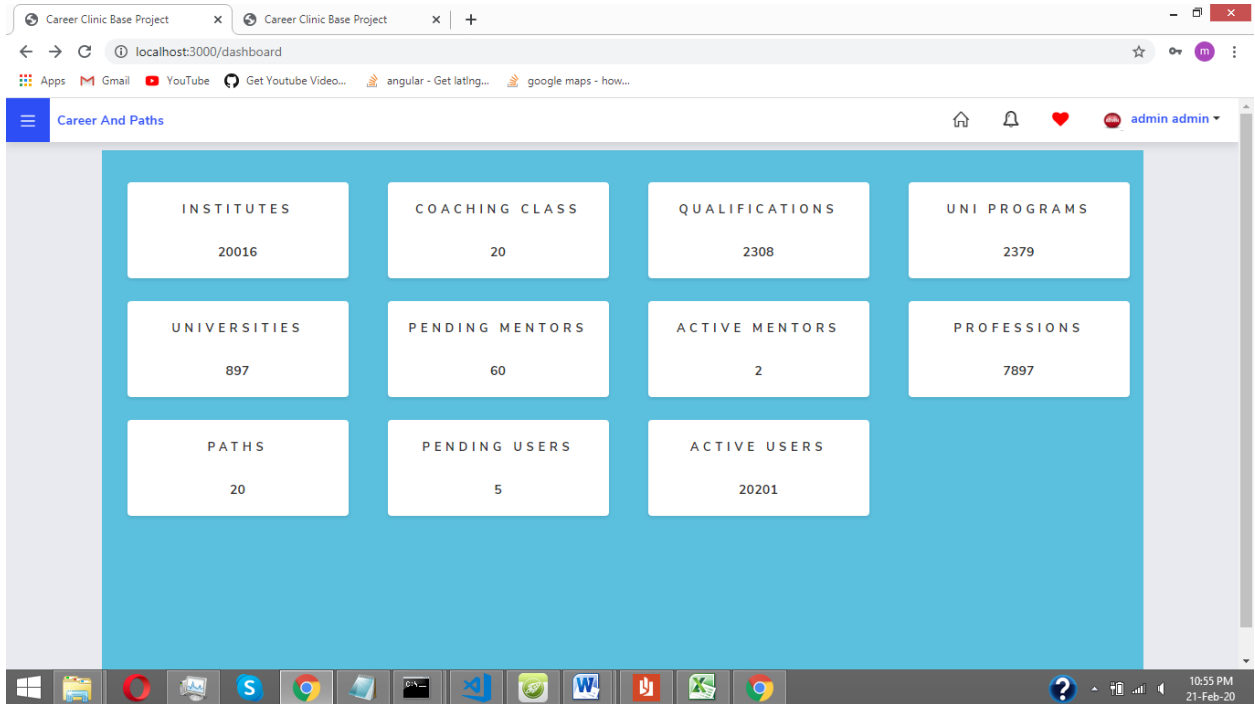
## Connect to Mentor

- User can have a chat conversation with the mentors and coordinators of a particular program.
- Mentors of the college can have a conversation with the user and can help the user in term of the educational journey and other information needed about institute and other programs.



## Register Interest

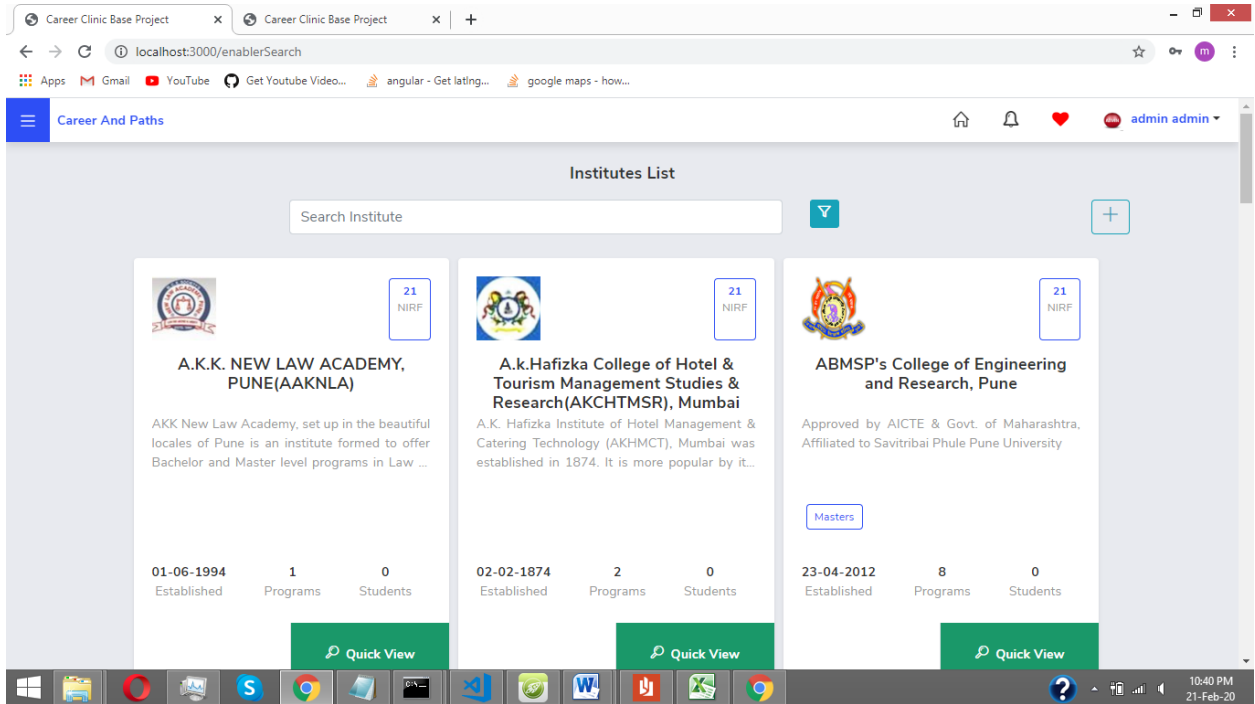
- User can register Admission Interest Application for the Particular Program of the Institute.
- Information is Auto filled in the registration form, and some optional information is requested from the user.
- Some of the mandatory information is needed to be filled in the registration form.



## 1. Manual for Admin:

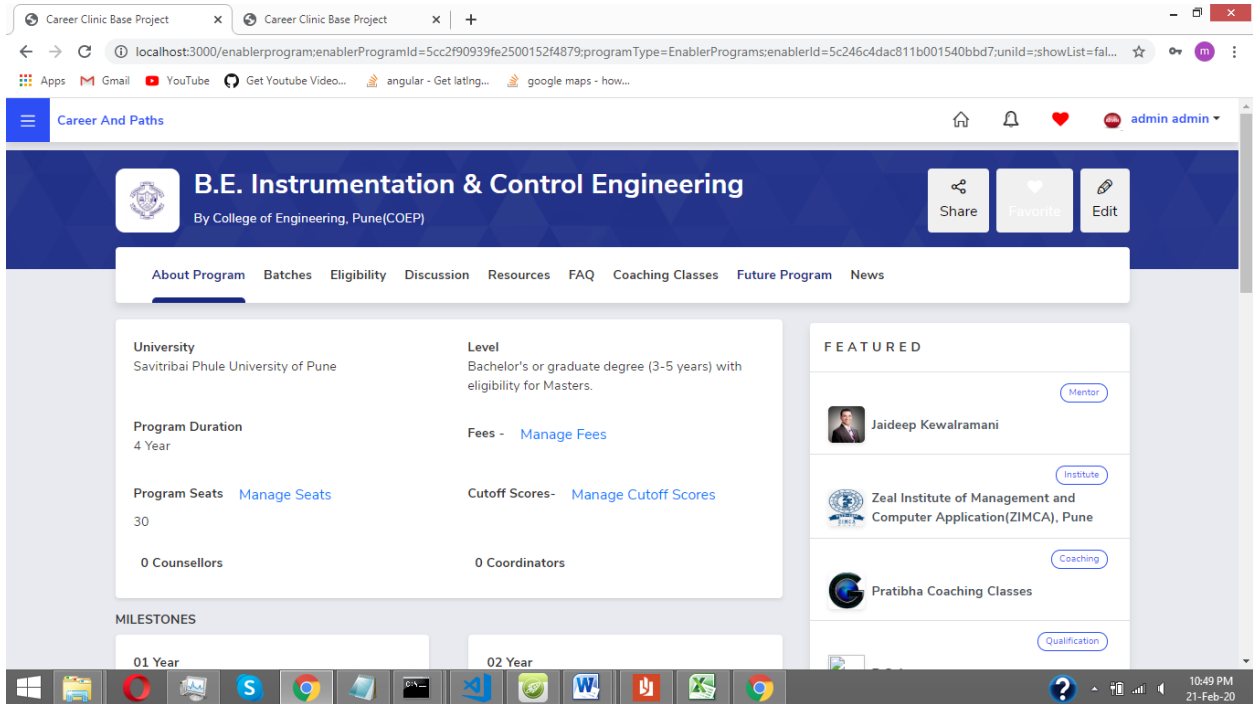
### Admin Dashboard

- Admin can click on institutes and navigate to the institute list page, for the further execution.
- Admin can click on the active mentors and browse through it.
- Admin can view the active users list by clicking on active users tabs to navigate to the active user list.



## Institute View

- Admin can search various institutes across the world.
- Admin can add institute, by entering the institute details on the institute add form.
- Institute can update the details and other information of the institute been added, at later point of time.
- Admin can add resources of the particular institute.



## Program View

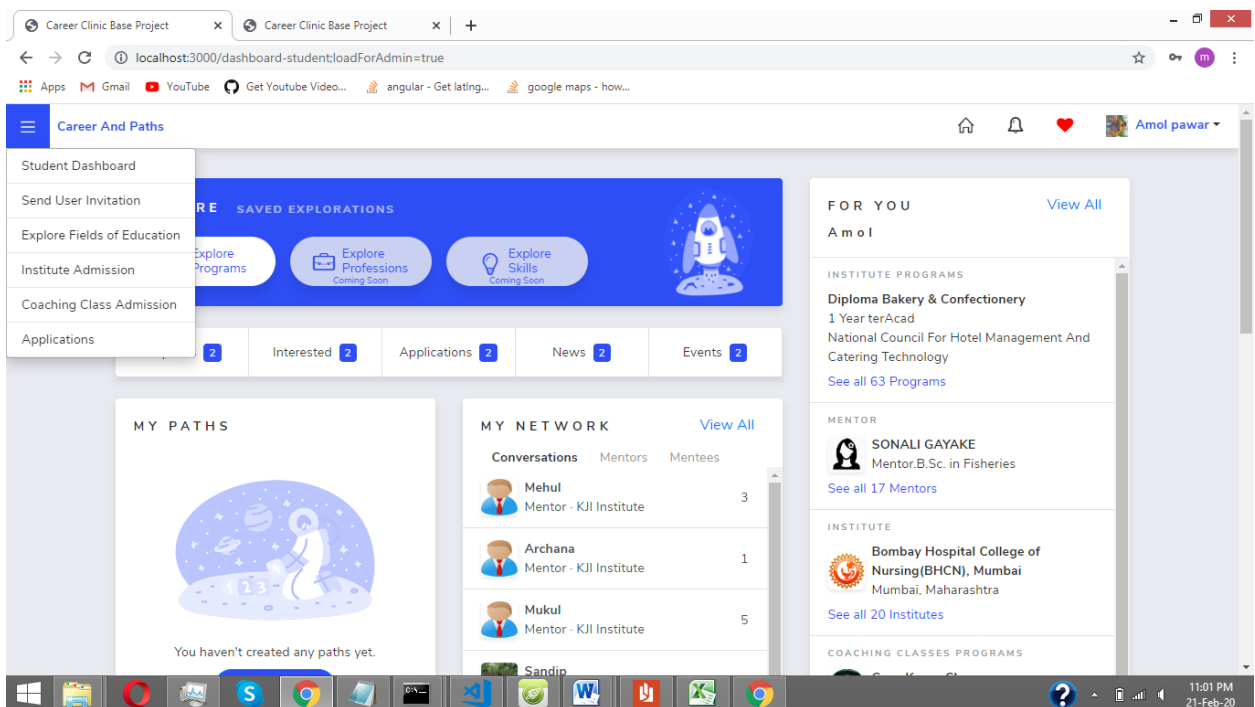
- Admin can search program offered by university and select particular program and add to the institute.
- Admin can update the information of the particular program by clicking on edit option.
- Admin can add the cutoff, fees, seats information on the program page by clicking on the respected hyperlinks.



## 4.2 Operations Manual / Menu Explanation

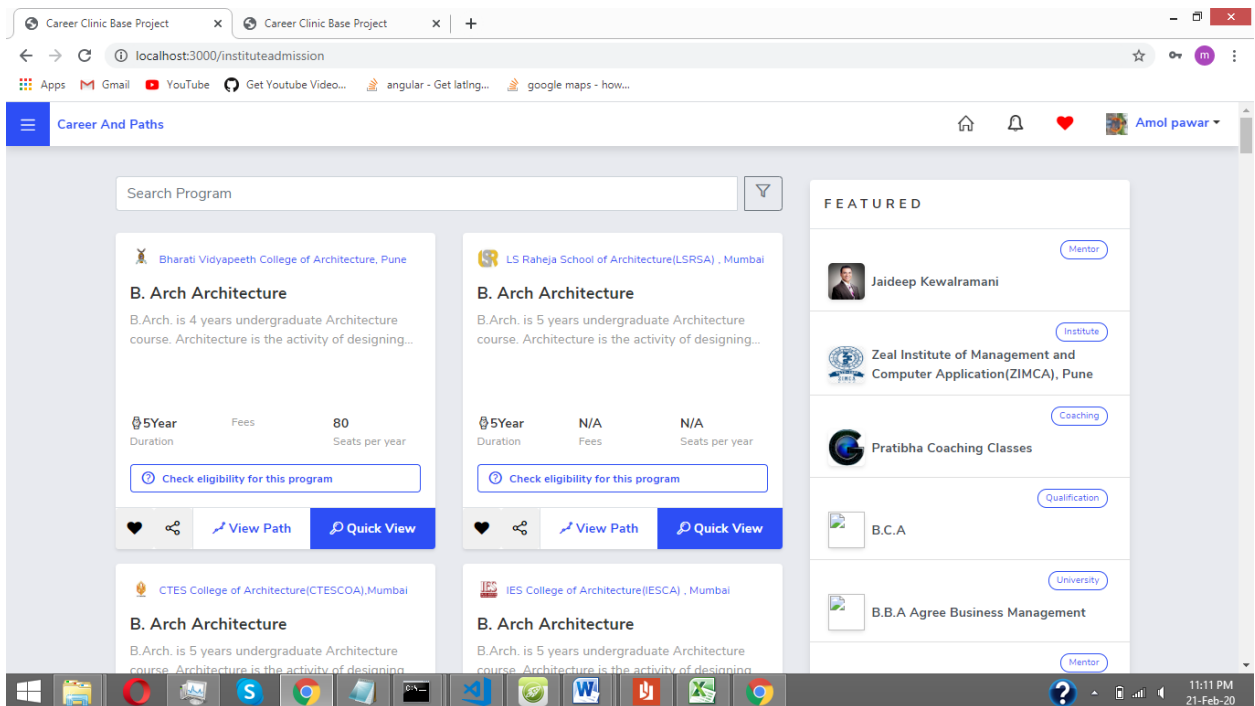
### User Dashboard:

- When we click on student Dashboard in menu, we will be navigated to user dashboard.
- When we click on Explore Field of Education we will get navigated to field of education page, where we can explore various fields of education.



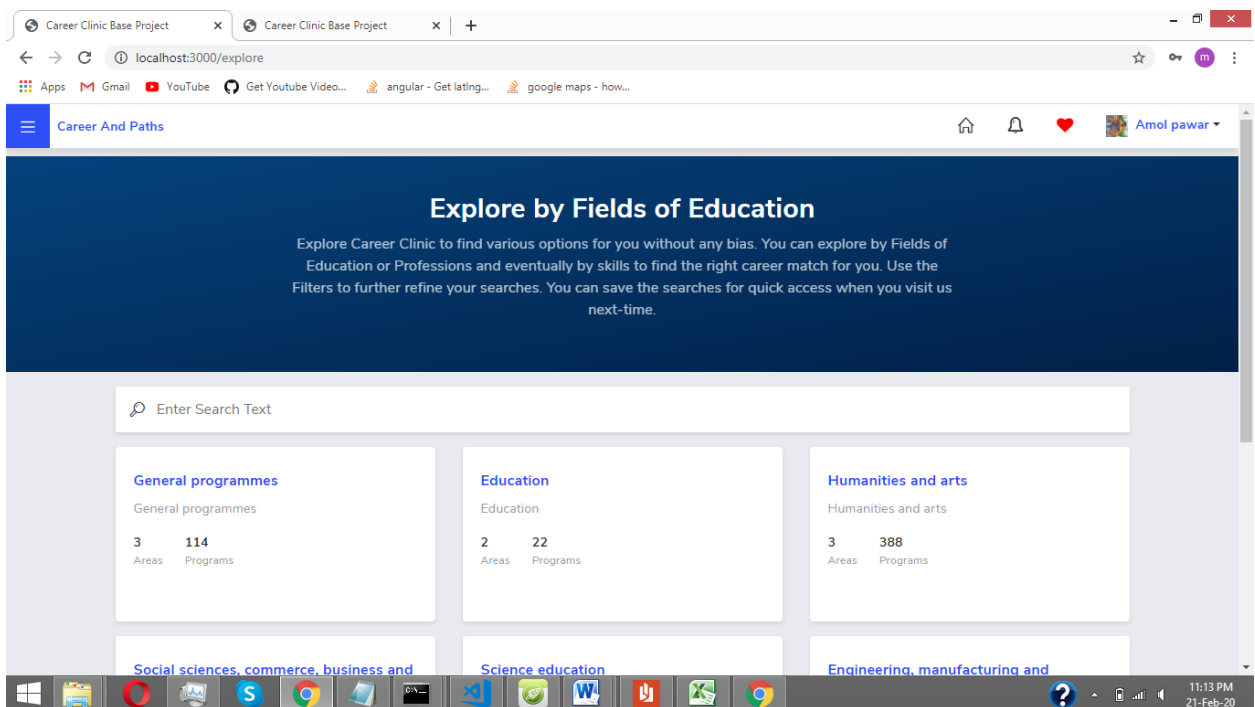
## Institute Admissions:

- When we click on institute admissions we institute program list page open.

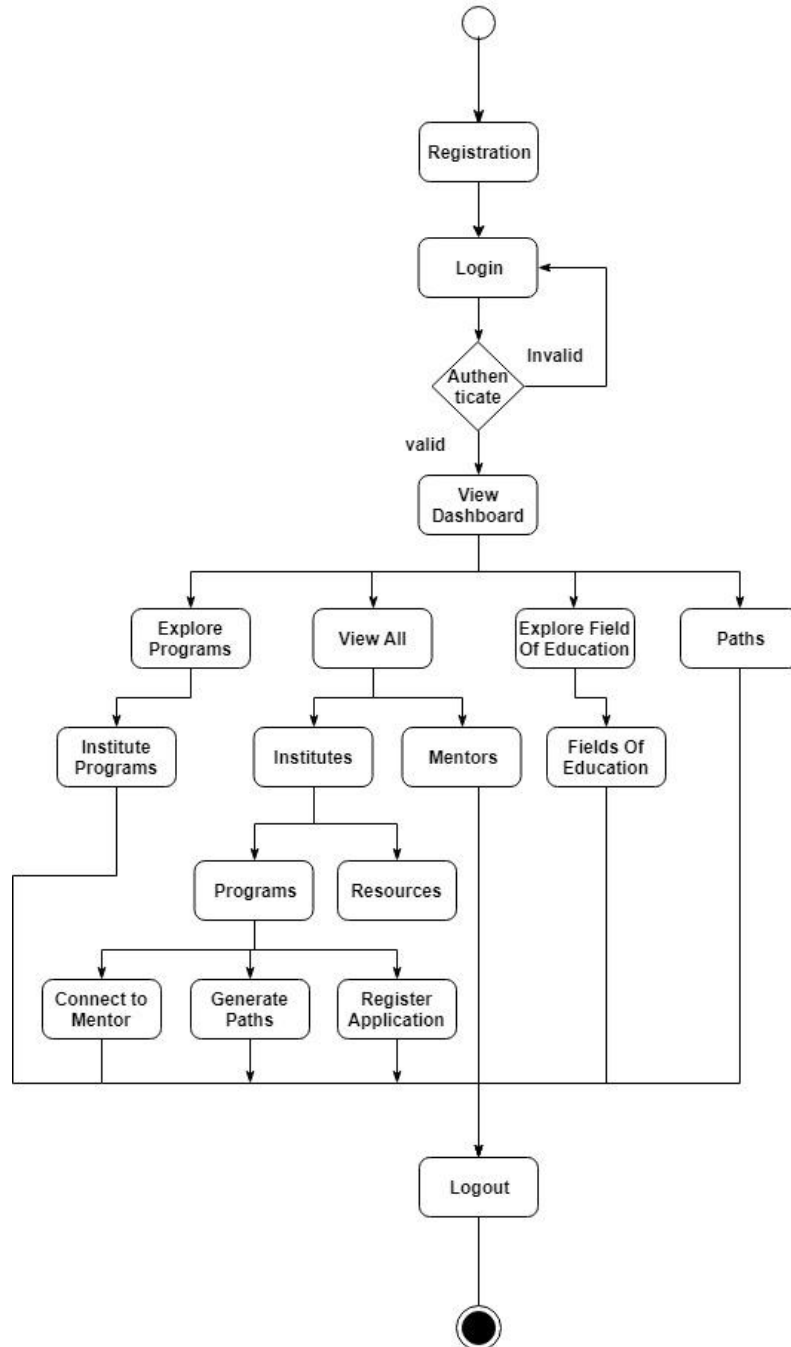


## Explore Field of Education:

- When we click on Explore Field of Education we will get navigated to field of education page, where we can explore various fields of education.
- Search functionality is provided to the user to search in a desired field of education.



### 4.3 Flow Charts



## **Drawbacks and Limitations**

- Comparing of same qualifications offered by different institutes by different parameters like fees, seats etc. is not available in the system
- Online courses are not provided of a particular educational qualification.
- Ongoing education of a particular student in an institute does not have student portal for a particular institute.
- E-learning functionality of a particular institute program is not available.
- Professions and skills sectors are not available in the system.
- Employment opportunities information after the educational journey is not provided.
- Educational fairs and cultural events information is not available in the system.
- Chat bot functionality is not provided by the system for a particular institute, counselor, Coordinators.

## **Proposed Enhancements**

- Development of the system for the mobile platform.
- Profession journey functionality for after the successful achievement of the educational milestones.
- Skills opportunities and the programs offered to accomplish the various skills from various parts of the world.
- Job opportunities after the educational journey, various jobs, skills requirements in the current industry.
- Chat bot functionality for automation of the system.

## Conclusions

- The Website developed gives the useful and precise information for the commencement or ongoing educational journey of an individual.
- The Website helps the user to interact with various institutes and institute programs across the world and provide every aspect of information regarding the institute and institute programs.
- All the features in the website are developed as per user's usability.
- System helps in removing the gap between the users and the institutes across the world.
- Connecting to the institute Counselors/Mentors and coordinators across the institutes in any part of the world can be achieved through the system.
- Users can get AI like experience through the system for their educational journey throughout.

- The Limitations of posting FAQ's regarding the information of programs is removed by the system.
- Thus, with the help of the developed system the need of the system of educational information and reachability of the users to the institutes have been achieved. Registering for the program from any part of the world is made possible, through the system. Hence, the system developed will be beneficial for the institute and the user's perspective.



## Bibliography

### 1) Books:

- AngularJS Web Development Cookbook, Matt Frisbie.
- Web Development with MongoDB and Node.
- AngularJS Services by Jim Lavin
- Pro AngularJS (Expert's Voice in Web Development)
- Angular: Up and Running- Learning Angular
- Beginning Angular with Typescript by Greg Lim

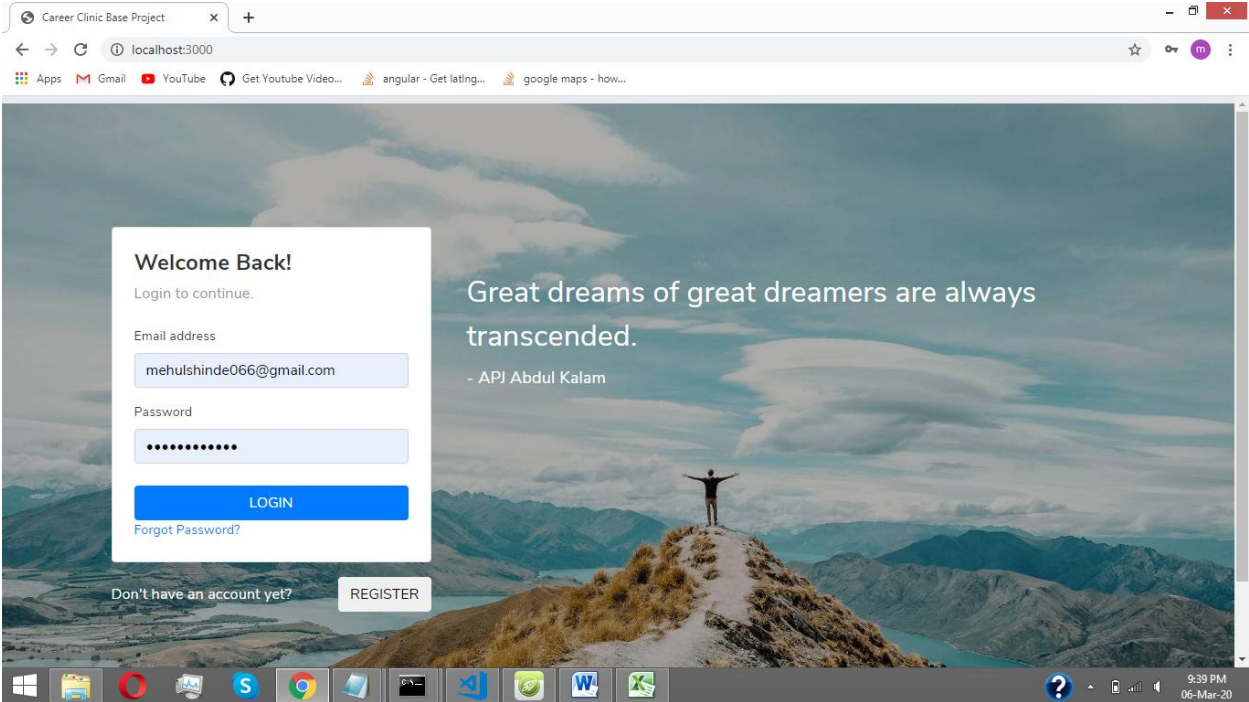
### 2) Web:

- <https://angular.io/guide/docs-style-guide>
- <https://docs.mongodb.com/manual/reference/database-references/>
- <https://www.w3schools.com/angular/>
- <https://web.dev/angular/>
- <https://www.altexsoft.com/blog/engineering/the-good-and-the-bad-of-angular-development/>

## **ANNEXURES**

# ANNEXURE 1: USER INTERFACE SCREENS

## 1) Login:



# 1) Registration:

The screenshot shows a web browser window with the following details:

- Browser Tab: Career Clinic Base Project
- Address Bar: localhost:3000/newRegister;userId=mehulshinde066@gmail.com
- Navigation Bar: Back, Forward, Refresh, Home, Search, and Profile icons.
- Taskbar: Windows Start button, File Explorer, Chrome, and other application icons.
- System Tray: Time 9:42 PM, Date 06-Mar-20, and system icons.

### Personal Details

Register As

Areas of Interest

Aspired Education Level

Geographical Location

Personal Details  5

First Name: mehul

Last Name: shinde

Gender: Male

Email: mehulshinde066@gmail.co

Your Current Education Level: 10th - India / Lower Secondary

Education Status: In Progress

Password: .....

Confirm Password: .....

You can change your selection at any time later by changing setting in profile.

Previous Done

## 2) Student Dashboard:

The screenshot shows a web browser window with the URL `localhost:3000/dashboard-student/loadForAdmin=true`. The page title is "Career And Paths" and the user is logged in as "Mehul Shinde".

**EXPLORE** | **SAVED EXPLORATIONS**

- Explore Programs
- Explore Professions (Coming Soon)
- Explore Skills (Coming Soon)

**Requests** 2 | **Interested** 2 | **Applications** 2 | **News** 2 | **Events** 2

**MY PATHS**

You haven't created any paths yet.

**MY NETWORK** | [View All](#)

| Conversations                       | Mentors | Mentees |
|-------------------------------------|---------|---------|
| Amol<br>Mentor - KJI Institute      |         | 3       |
| raj<br>Mentor - KJI Institute       |         | 1       |
| Chaitanya<br>Mentor - KJI Institute |         | 6       |

**FOR YOU** | [View All](#)

**Mehul**

**INSTITUTE PROGRAMS**

**Diploma Tourism Studies**  
3 Year postSecNonTer  
Indira Gandhi National Open University  
[See all 2567 Programs](#)

**MENTOR**

**SONALI GAYAKE**  
Mentor.B.Sc. in Fisheries  
[See all 3 Mentors](#)

**INSTITUTE**

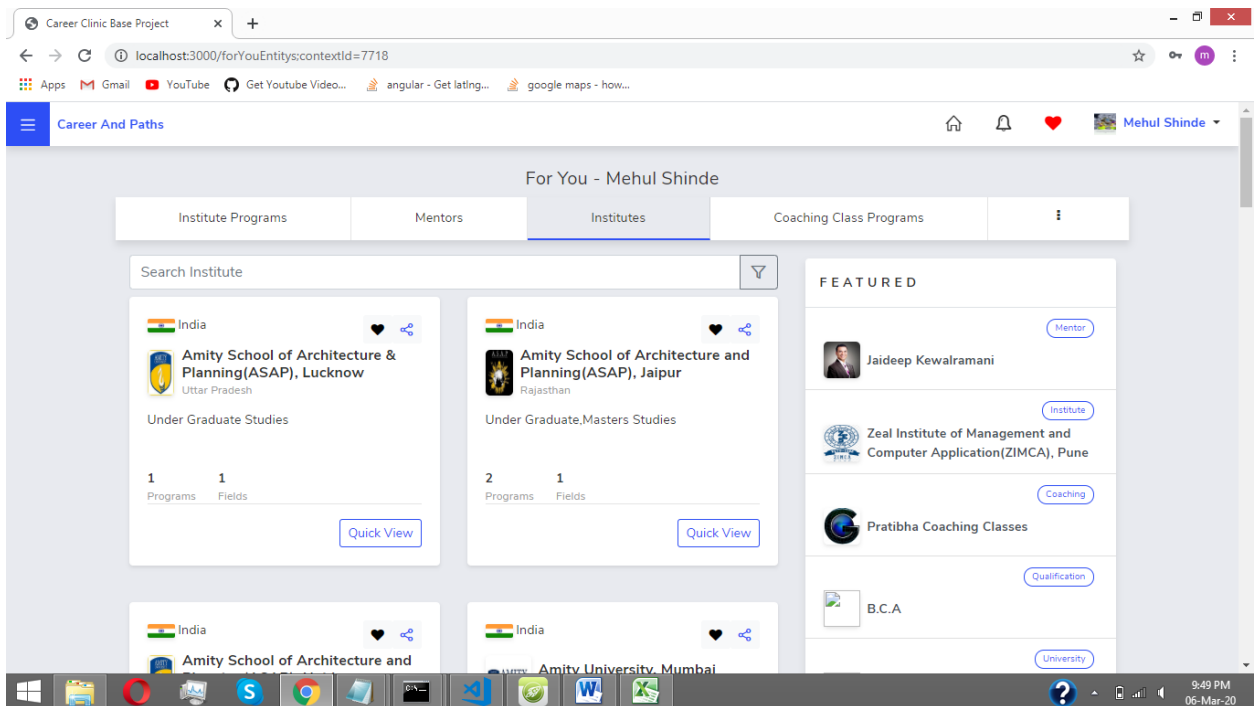
**A.K.K. NEW LAW ACADEMY, PUNE(AAKNLA)**  
Pune, Maharashtra  
[See all 20 Institutes](#)

**PATH**

Path to B.Com Commerce offered by

Windows taskbar: 9:45 PM, 06-Mar-20

### 3) For You Page:



## 4) Institute Page:

Career Clinic Base Project x +

localhost:3000/enabler-showcase?enablerId=5c246c4dac811b001540bbd7;tab=Program

Apps Gmail YouTube Get Youtube Video... angular - Get latng... google maps - how...

Career And Paths

Home Notification Heart Mehul Shinde

### College of Engineering, Pune(COEP)


Pune,

|             |      |              |            |         |
|-------------|------|--------------|------------|---------|
| Established | NIRF | OutlookIndia | IndiaToday | TheWeek |
| 1854        | 49   | 10           | 22         | 22      |

[View Brochure](#)


[About Us](#) [Academic Programs](#) [News](#) [Resources](#) [FAQ's](#) [Institute Events](#) [List-Club/List-Project](#)


#### FEATURED ALUMNI


  
**Abhay Mainkar**  
Class of 1987 Electrical (B.E.)  
Pune

[View More](#)

#### FEATURED

 **Jaideep Kewalramani** [Mentor](#)

 **Zeal Institute of Management and Computer Application(ZIMCA), Pune** [Institute](#)

 **Pratibha Coaching Classes** [Coaching](#)

Windows File Explorer Chrome VS Code Word Excel 9:51 PM 06-Mar-20

## 5) Institute Program Page:

The screenshot displays a web browser window with the following content:

- Browser Tab:** Career Clinic Base Project
- Address Bar:** localhost:3000/enablerprogram:programType=SingleEnablerPrograms;enablerId=5ccac4ddd66f2700157d28b5;programId=5dfc7b7016d8f900140b701a;programName...
- Page Header:** Career And Paths (left), Home, Notifications, Heart, Mehul Shinde (right)
- Program Title:** B.B.A Business Administration
- Subtitle:** By Maharashtra Education Society's Institute of Management and Career Courses - IMCC, Pune
- Navigation Menu:** About Program, Batches, Eligibility, Discussion, Resources, FAQ, Coaching Classes, Future Program, News
- Program Details:**
  - University:** Savitribai Phule University of Pune
  - Program Duration:** 3 Year
  - Program Seats:** 0
  - Connect To:** 1 Counsellors
  - Level:** Bachelor's or graduate degree (3-5 years) with eligibility for Masters.
  - Fees -** Program Fees Data Not Available
  - Cutoff Scores-** Cutoff Score Data Not Available
  - 0 Coordinators**
- FEATURED:**
  - Mentor:** Jaideep Kewalramani
  - Institute:** Zeal Institute of Management and Computer Application (ZIMCA), Pune
  - Coaching:** Pratibha Coaching Classes
  - Qualification:** B.C.A
  - University:** (Link to University)
- MILESTONES:**
  - 01 Year:** Mentors, Students, Coaching Classes
  - 02 Year:** Mentors, Students, Coaching Classes
- Taskbar:** Windows logo, File Explorer, Chrome, Word, Excel, and system tray showing 9:55 PM on 06-Mar-20.



## 6) Connect to Mentor / Counselor:

The screenshot displays a web browser window with the address bar showing a localhost URL. The page content is partially obscured by a modal window titled "Program Counsellors List". The modal lists two counsellors:

| Name          | Action  |
|---------------|---------|
| Sudhir Agashe | Connect |
| Rupa Dalvi    | Connect |

The background page shows details for a program, including "University of Mumbai", "Program Duration 4 Year", "Program Seats 60", and "Connect To 2 Counsellors". It also features a "MILESTONES" section with tabs for "01 Year", "02 Year", "03 Year", and "04 Year". The Windows taskbar at the bottom shows the time as 9:58 PM on 06-Mar-20.

## 7) Institute Resources:

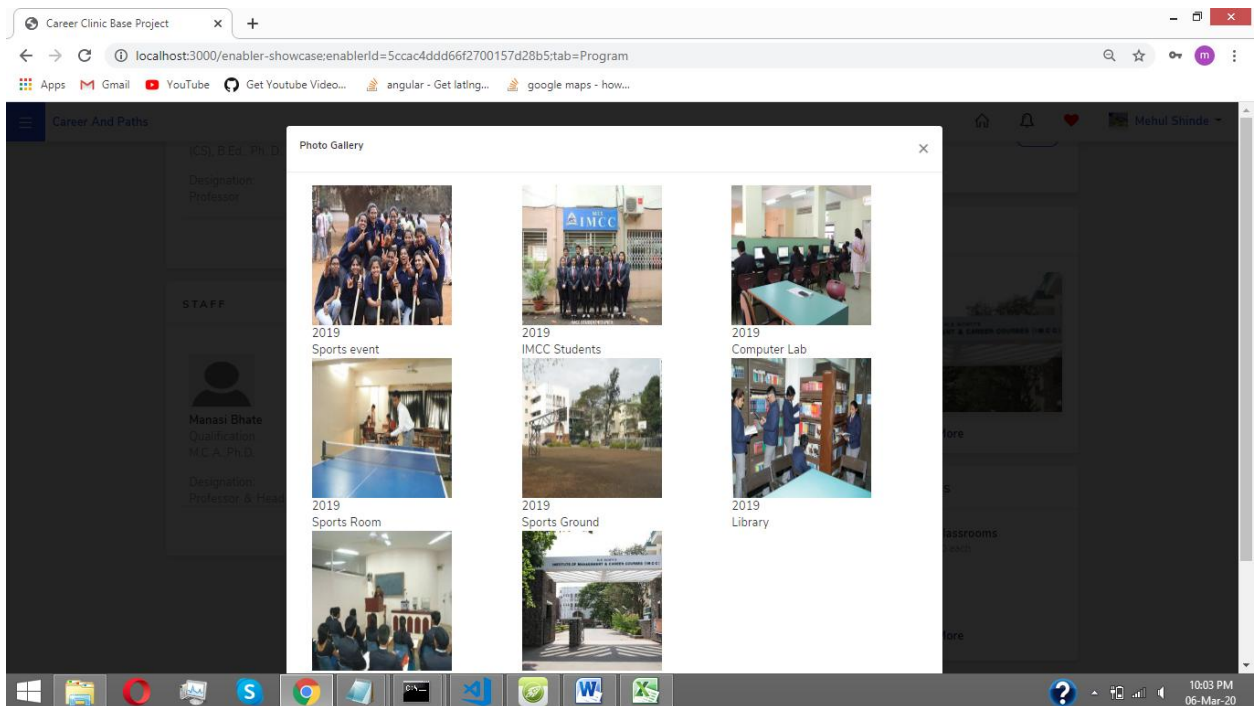
The screenshot displays a web browser window showing the homepage of the Maharashtra Education Society's Institute of Management and Career Courses - IMCC, Pune. The browser's address bar shows the URL: localhost:3000/enabler-showcase:enablerId=5ccac4ddd66f2700157d28b5;tab=Program. The website has a dark blue header with the institute's logo and name. Below the header is a navigation menu with options: About Us, Academic Programs, News, Resources, FAQ's, Institute Events, and List-Club/List-Project. The main content area features two video thumbnails: 'Life at IMCC - Students Speak' and 'Alumni Connect'. A sidebar on the right is titled 'FEATURED' and includes a 'MENTOR' section for Apurwa Barve (B.B.A Business Administration) and a 'PROGRAMS' section for B.B.A Business Administration. The Windows taskbar at the bottom shows the date and time as 10:01 PM on 06-Mar-20.

## 8) Institute News:

The screenshot displays a web browser window with the following content:

- Browser Tab:** Career Clinic Base Project
- Address Bar:** localhost:3000/enabler-showcase;enablerId=5ccac4ddd66f2700157d28b5;tab=Program
- Page Header:** Career And Paths | Home | Notifications | Favorites | Share | Mehul Shinde
- Hero Section:**
  - Logo:** Maharashtra Education Society's Institute of Management and Career Courses - IMCC, Pune
  - Text:** Maharashtra Education Society's Institute of Management and Career Courses - IMCC , Pune
  - Location:** Pune, Maharashtra
  - Established:** 1983
  - [View Brochure](#)
- Navigation Menu:** About Us | Academic Programs | **News** | Resources | FAQ's | Institute Events | List-Club/List-Project
- INSTITUTE UPDATE:**
  - Placement 2020** (showNews)
  - Text:** We already have started placing students of batch 2020. Few students have been selected in PTC and Aloha Technologies.
  - By:** Maharashtra Education Society's Institute of Management and Career Courses - IMCC , Pune, Pune, Maharashtra (03 Feb 2020)
  - [Share](#) | [Like](#)
- FEATURED:**
  - MENTOR:** Apurwa Barve (B.B.A Business Administration) | [See all 8 Mentors](#)
  - PROGRAMS:** B.B.A Business Administration | [See all 5 programs](#)
  - NEWS:** Maharashtra Education Society's Institute of Management and Career Courses - IMCC , Pune
- Taskbar:** Windows taskbar with icons for File Explorer, Edge, Chrome, Word, and other applications. System tray shows 10:02 PM on 06-Mar-20.

## 9) Institute Photo Gallery:



## 10) Institute Facilities:

The screenshot displays a web browser window with the following details:

- Browser Tab:** Career Clinic Base Project
- Address Bar:** localhost:3000/enabler-showcase;enablerId=5ccac4ddd66f2700157d28b5;tab=Program
- Page Title:** Career And Paths
- Header:** Maharashtra Education Society's Institute of Management and Career Courses - IMCC , Pune
- Navigation:** [← Back to Institute Details](#)
- Facility List:**

| FACILITY LIST                    |                                |                               |   |                                      |                              |   |
|----------------------------------|--------------------------------|-------------------------------|---|--------------------------------------|------------------------------|---|
| <b>Girls Hostel</b><br>121 Girls | <b>Boys Hostel</b><br>158 Boys | <b>Library</b><br>18411 Books | <b>e-books &amp; Projects</b><br>31,35,00 | <b>Computer Lab</b><br>30 PC per lab | <b>Classrooms</b><br>30 each | <b>Auditorium</b><br>387 seating capacity |

The Windows taskbar at the bottom shows the system tray with the date 06-Mar-20 and time 10:03 PM.

## 11) Explore Field of Education Page:

The screenshot shows a web browser window with the following details:

- Browser tab: Career Clinic Base Project
- Address bar: localhost:3000/explore
- Page title: Career And Paths
- User profile: Mehul Shinde

### Explore by Fields of Education

Explore Career Clinic to find various options for you without any bias. You can explore by Fields of Education or Professions and eventually by skills to find the right career match for you. Use the Filters to further refine your searches. You can save the searches for quick access when you visit us next-time.

Enter Search Text

| Field of Education                          | Areas  | Programs |
|---|--|----------|
| Primary / Basic Education                   | 3  | 114      |
| Teachers education training                 | 2  | 22       |
| Humanities and arts                         | 3  | 388      |
| Social sciences, commerce, business and law | <p>Social sciences, commerce, business and law education</p> |          |
| Science                                     | 5  | 546      |
| Engineering, manufacturing and construction |  |          |

The bottom of the screenshot shows a Windows taskbar with various application icons and a system tray displaying the time as 10:05 PM on 06-Mar-20.

## 12) Update Profile:

The screenshot shows a web browser window with the following details:

- Browser Tab:** Career Clinic Base Project
- Address Bar:** localhost:3000/userDashboard:userId=5d539d15de2a7500146affcb;tab=About;dashboard=Profile
- Page Header:** Career And Paths (left), Home, Notifications, Heart, Mehul Shinde (right)
- Profile Section:** Mr. Mehul Shinde (Name), Become a Mentor (button), Profile picture, and a list of education entries: B.C.A Computer Applications, B.C.A Computer Applications, B.C.A Computer Application, View All.
- Navigation Menu:** Settings, Journey (selected), Mentors, Mentees, Mentorship Areas, Mentoring Schedule, Conversation list.
- Buttons:** Add Education Details, Add Employment Details.
- Education List:**
  - test1 (2019, Completed)
  - B.C.A Computer Applications Computer Applications (2019, Completed)
- My Journey:** A button labeled "My Journey".
- Taskbar:** Windows taskbar with icons for File Explorer, Edge, Chrome, VS Code, and others. System tray shows 10:09 PM on 06-Mar-20.

## 14) Register for Program:

The screenshot displays a web browser window with the following details:

- Browser Tab:** Career Clinic Base Project
- Address Bar:** localhost:3000/application:entityType=enableProgram:programId=5dfc7b7016d8f900140b701a;parentId=5ccac4ddd66f2700157d28b5
- Page Title:** Career And Paths
- User Profile:** Mehul Shinde
- Header:** Maharashtra Education Society's Institute of Management and Career Courses - IMCC, Pune  
B.B.A Business Administration
- Section:** Talk To Counsellors
- Form Fields:**
  - Personal Information (expandable)
  - Salutation: Ms.
  - First Name: Mehul
  - Last Name: Shinde
  - Middle Name: Enter middle name
  - Phone: 91 (country code), Enter phone number
- FEATURED Section:**
  - Jaideep Kewairamani (Mentor)
  - Zeal Institute of Management and Computer Application(ZIMCA), Pune (Institute)
  - Pratibha Coaching Classes (Coaching)
  - B.C.A (Qualification)
  - B.B.A Agree Business Management (University)
  - Kalindi Bhat (Mentor)
  - College of Engineering, Pune(COEP) (Institute)
- Taskbar:** Windows 10 taskbar with various application icons and system tray showing 10:14 PM on 06-Mar-20.



## **ANNEXURE 2: OUTPUT REPORTS WITH DATA**

# Output Report: -

## 1) Institute List:

The screenshot shows a web browser window with the URL `localhost:3000/forYouEntities:contextId=9364`. The application is titled "Career And Paths" and is for user "Mehul Shinde". A "Filter Setting" dialog box is open, titled "Filter for Mr. Mehul Shinde".

The dialog has three tabs: "Levels of Education", "Fields of Education", and "Location". The "Fields of Education" tab is selected. It displays the following data:

| Field of Education                                    | Total Sub Fields | Selected Sub Fields | Total Category Sub Fields | Selected Category Sub Fields |
|---|------------------|---------------------|---------------------------|------------------------------|
| Humanities and arts                                   | 3                | 0                   | 40                        | 0                            |
| Social sciences, commerce, business and law education | 5                | 0                   | 132                       | 0                            |
| Science education                                     | 5                | 0                   | 114                       | 0                            |

Buttons in the dialog include "Reset Filters", "Apply and Save", and "Apply Filter". The background shows a list of institutes, including "A.K.K.N. PUNE(A)" and "Abhinav College and Man".

## 1.1) Institute List:

The screenshot displays a web application interface for a user named Mehul Shinde. The page is titled "For You - Mehul Shinde" and has a navigation menu with options: "Institute Programs", "Mentors", "Institutes" (selected), and "Coaching Class Programs".

A search bar labeled "Search Institute" is positioned above the main content area. Below it, four institute cards are displayed in a grid:

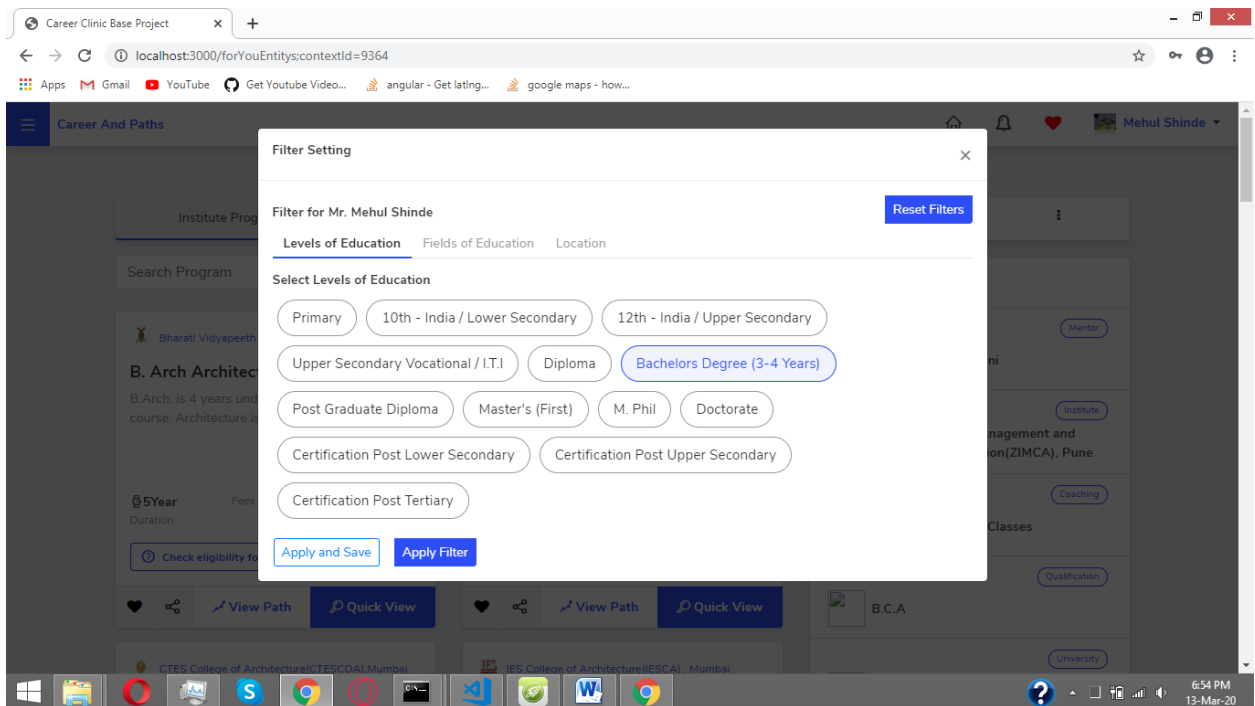
- A.K.K. NEW LAW ACADEMY, PUNE(AAKNLA)** (Maharashtra): Under Graduate Studies, 1 Program, 1 Field. Includes a "Quick View" button.
- Abhinav Education Society's College Of Law** (Maharashtra): Under Graduate Studies, 2 Programs, 1 Field. Includes a "Quick View" button.
- Abhinav Education Society's College of Computer Science and Management, Pune** (Maharashtra): Under Graduate Studies.
- Ajeenkya D Y Patil University Pune** (Maharashtra): Under Graduate Studies.

On the right side, a "FEATURED" section lists several items:

- M.Sc. Applied Mathematics (Institute) with an "I'm Interested" button.
- test Predict Academy (Coaching) with a "Coaching" button.
- rohan rathod (Mentor) with a "Mentor" button.
- M.C.A. Computer Applications (Institute) with an "I'm Interested" button.

The browser's address bar shows "localhost:3000/forYouEntities:contextId=9364". The Windows taskbar at the bottom shows the time as 6:56 PM on 13-Mar-20.

## 2) Program List:



## 2.1) Program List:

The screenshot displays a web application interface for 'Career And Paths'. The user is logged in as 'Mehul Shinde'. The main content area is titled 'For You - Mehul Shinde' and features a navigation bar with tabs for 'Institute Programs', 'Mentors', 'Institutes', and 'Coaching Class Programs'. A search bar is located above the program listings.

The 'Institute Programs' tab is active, showing a list of programs. Two programs are visible:

- Bharati Vidyapeeth College of Architecture, Pune**  
**B. Arch Architecture**  
B.Arch. is 4 years undergraduate Architecture course. Architecture is the activity of designing...  
Duration: 5 Year, Fees: 80, Seats per year: 80  
[Check eligibility for this program](#)  
[View Path](#) [Quick View](#)
- LS Raheja School of Architecture(LSRSA) , Mumbai**  
**B. Arch Architecture**  
B.Arch. is 5 years undergraduate Architecture course. Architecture is the activity of designing...  
Duration: 5 Year, Fees: N/A, Seats per year: N/A  
[Check eligibility for this program](#)  
[View Path](#) [Quick View](#)

The right sidebar contains a 'FEATURED' section with the following items:

- Jaideep Kewalramani** (Mentor)
- Zeal Institute of Management and Computer Application(ZIMCA), Pune** (Institute)
- Pratibha Coaching Classes** (Coaching)
- B.C.A** (Qualification)
- CTES College of Architecture(CTESCOA) Mumbai** (University)
- IES College of Architecture(IESCA) Mumbai** (University)

The Windows taskbar at the bottom shows the system time as 6:54 PM on 13-Mar-20.

### 3) Staff List:

The screenshot shows a web browser window displaying the staff list of the College of Engineering, Pune (COEP). The browser's address bar shows the URL: localhost:3000/enabler-showcase:enablerId=5c246c4dac811b001540bbd7;tab=Program. The page header includes the COEP logo and the text "College of Engineering, Pune(COEP)". Below the header, there is a navigation link "← Back to Institute Details". The main content area is titled "STAFF LIST" and displays a grid of staff members. Each staff member's entry includes a profile picture, name, and designation/department information.

| Name              | Designation/Department                          |
|-------------------|---|
| Rupa Dalvi        | Designation: Professor, Department: Civil       |
| Ruchi Jain        |   |
| Pratap Raval      |   |
| M.S. Bhosale      |   |
| D.N. Sonawane     | Dr. D. N. Sonawane is an Associate Professor in |
| Chetankumar Patil | Teaching Responsibility: BTech: Signals and     |
|                   |   |
|                   |   |

## 4) Mentor / Counselor List:

Career Clinic Base Project

localhost:3000/forYouEntities:contextId=5424

Apps Gmail YouTube Get Youtube Video... angular - Get latng... google maps - how...

Career And Paths

Institute Prog

Search Mentors

India

Mehul S

B.C.A Computer A

Request Ment

Filter Setting

Filter for Mr. Mehul Shinde

Levels of Education **Fields of Education** Location

Reset Filters

Search by keyword or select options from below. select multiple op..

Enter Search Text

Select fields of Education

Primary Field Select Entire Field

General programmes

3 Total Sub Fields 0 Selected Sub Fields 7 Total Category Sub Fields 0 Selected Category Sub Fields

Primary Field Select Entire Field

Education

Apply and Save Apply Filter

Mentor

Institute

Management and on(ZIMCA), Pune

Coaching

Classes

Qualification

University

Class Management

Mentor

7:02 PM 13-Mar-20

## 4.1) Mentor / Counselor List:

The screenshot displays a web application interface for a career clinic. The browser address bar shows the URL `localhost:3000/forYouEntities:contextId=5424`. The page title is "Career And Paths". The main content area is titled "For You - Mehul Shinde" and features a navigation menu with tabs for "Institute Programs", "Mentors", "Institutes", and "Coaching Class Programs". The "Mentors" tab is active, showing a search bar and a list of two mentors:

- Mehul Shinde**: B.C.A Computer Applications, 4.5 stars, Pune, MH. A "Request Mentorship" button is visible.
- Jaideep Kewalramani**: M.B.A International Business, 4.5 stars, Pune, MH. A "Request Mentorship" button is visible.

On the right side, there is a "FEATURED" section with a list of items:

- Jaideep Kewalramani** (Mentor)
- Zeal Institute of Management and Computer Application (ZIMCA), Pune** (Institute)
- Pratibha Coaching Classes** (Coaching)
- B.C.A** (Qualification)
- B.B.A Agree Business Management** (University)

The Windows taskbar at the bottom shows the system time as 7:02 PM on 13-Mar-20.



## 5) Registration List:

The screenshot shows a web browser window with the URL `localhost:3000/applications`. The page has a blue header with the text "Applications". Below the header, there are two main content areas. The left area contains two course listings for PICA College. The first listing is for "B.Sc Computer Science - 2021" and is marked "Not yet Applied". The second listing is for "B.A Acting - 2020" and is marked "Applied". Both listings have "Discussion" and "Mark As Read" buttons. The right area is titled "FEATURED" and is currently empty. The browser's taskbar at the bottom shows various application icons and the system clock indicating 7:10 PM on 13-Mar-20.

| Course Name           | Year | Status          | Buttons                  |
|-----------------------|------|-----------------|--------------------------|
| B.Sc Computer Science | 2021 | Not yet Applied | Discussion, Mark As Read |
| B.A Acting            | 2020 | Applied         | Discussion, Mark As Read |

## 6) Program path :

The screenshot displays a web application interface for career paths. The browser address bar shows the URL `localhost:3000/showpath/contextId=688`. The page title is "Career And Paths". A blue header bar contains the text "No. of Paths : 48" and "Path to B. Com Commerce offered by Bharati Vidyapeeth Deemed University from India", along with a "Save Path" button. The main content area is titled "Graduation" and "B.Com with 50% marks", with a "Check Eligibilities" button. It lists "20 Selected Programs" and "Show 0 Ignored Programs". A search bar is present. Below the search bar, there are filter tabs: "Entrance Exams", "Universities" (with a count of 14), "Fields" (with a count of 1), "Locations", and "Duration". The first program listed is "B. Com Commerce" in India, a 3-year graduation program offered by Spicer Adventist University, with fees unknown. It shows 0 institutes, 0 professions, and 321 further studies. The second program is also "B. Com Commerce" in India, a 3-year graduation program offered by the University of Mumbai, with fees unknown, 19 institutes, 0 professions, and 321 further studies. The Windows taskbar at the bottom shows the time as 7:04 PM on 19-Apr-20.

## ANNEXURE 3: SAMPLE PROGRAM CODE

### Sample Code:-

#### 1) Login Page: login.html

```
<div class="container">
  <div class="row">
    <div class="col-md-2"></div>
    <div class="col-md-8">
      <h1 class="text-center">Login</h1>
      <form name="form" (ngSubmit)="f.form.valid &&
login()" #f="ngForm" novalidate>
        <div class="form-group" [ngClass]="{ 'has-error':
f.submitted && !username.valid }">
          <label for="username">Username</label>
          <input type="text" class="form-control"
name="username" [(ngModel)]="model.username"
#username="ngModel" required />
```

```
    <div *ngIf="f.submitted && !username.valid"
class="help-block">Username is required</div>
```

```
</div>
```

```
    <div class="form-group" [ngClass]="{ 'has-error':
f.submitted && !password.valid }">
```

```
      <label for="password">Password</label>
```

```
      <input type="password" class="form-control"
name="password" [(ngModel)]="model.password"
#password="ngModel" required />
```

```
    <div *ngIf="f.submitted && !password.valid"
class="help-block">Password is required</div>
```

```
</div>
```

```
    <div class="form-group">
```

```
      <button [disabled]="loading" class="btn btn-
primary">Login</button>
```

```
      <!--a [routerLink]="['/register']" class="btn btn-
link">Register</a-->
```

```
        <button (click)="onSignupClick()" class="btn
btn-primary">Sign Up</button>
    </div>
</form>
<div>
    <div class="form-group" [ngClass]="{ 'has-
error': f.submitted && !username.valid }">
        <label for="username">Username</label>
        <input type="text" class="form-control"
name="username" [(ngModel)]="model.username"
#username="ngModel" required />
        <div *ngIf="f.submitted && !username.valid"
class="help-block">Username is required</div>
    </div>
    <div class="form-group" [ngClass]="{ 'has-error':
f.submitted && !password.valid }">
        <label for="password">Password</label>
```

```
        <input type="password" class="form-control"
name="password" [(ngModel)]="model.password"
#password="ngModel" required />

        <div *ngIf="f.submitted && !password.valid"
class="help-block">Password is required</div>

    </div>

    <social-login [operation]="operation"
[socialAuthConfig]="socialAuthConfig"
(startSocial)="startSocial($event)"></social-login>

        <input type="password" class="form-control"
name="password" [(ngModel)]="model.password"
#password="ngModel" required />

        <div *ngIf="f.submitted && !password.valid"
class="help-block">Password is required</div>

    </div>

</div>

</div>

</div>

<div class="col-md-2"></div>
```

```
</div>
<div class="form-group" [ngClass]="{ 'has-error': f.submitted
&& !username.valid }">
    <label for="username">Username</label>
    <input type="text" class="form-control"
name="username" [(ngModel)]="model.username"
#username="ngModel" required />
    <div *ngIf="f.submitted && !username.valid"
class="help-block">Username is required</div>
</div>
```

## 2) login.ts

```
export class LoginComponent implements OnInit {  
    operation = 'Login';  
    model: any = {};  
    loading = false;  
    returnUrl: string = 'dashboard';  
    socialCode: any = null;  
    socialConfig: any = null;  
    public configObj =  
{ "authEndpoint": "", "clientId": "", "redirectURI": "" };  
    public loginURI: string;  
    socialAuthConfig: any;  
  
    constructor(  
        private route: ActivatedRoute,  
        private router: Router,  
        private authenticationService: AuthenticationService,
```



```
    private alertService: AlertService,  
    private globalEventManagerService:  
GlobalEventManagerService,  
    private userService: UserService,  
    private ccDataService: CCDataService,  
    private  
conversationflowService:ConversationflowService,  
    private dashboardService: DashboardService) {  
  
    }  
  
    ngOnInit() {  
        // reset login status  
        this.authenticationService.logout();  
  
        this.conversationflowService.clearConversationHistory();
```

```
this.conversationflowService.setNextConversation('LoginCon  
versation');
```

```
    //let params = new  
URLSearchParams(this.location.path(false).split('?')[1]);  
    this.socialCode =  
this.route.snapshot.queryParams['code'];  
    //let config = localStorage.getItem("authConfig");  
    let config = this.ccDataService.getSocialConfig();  
    let provider = localStorage.getItem("provider");  
    let cachedURL = localStorage.getItem('cachedurl');  
    if(config){  
        this.configObj = config[provider];  
        this.loginURI = config.loginRoute;  
    }  
    this.socialConfig =  
this.ccDataService.getSocialConfig();
```

```
if(this.socialCode) {

this.authService.socialLogin(this.socialCode,this.configObj.clientId,this.configObj.redirectURI,
this.configObj.authEndpoint)

    .subscribe(
        data => {
            // show Navbar
            this.userService.login()
                .subscribe(user => {

this.userService.changeSelectedUser('LoggedInUser',user._id
)

                .subscribe(selUser => {

this.globalEventManagerService.showNavBar.emit(true);

                this.router.navigate([this.returnUrl]);
```

```
        });  
    });  
},  
error => {  
    this.alertService.error(error);  
    this.loading = false;  
});  
}  
  
// get return url from route parameters or default to '/'  
this.returnUrl =  
this.route.snapshot.queryParams['returnUrl'] || '/';  
}  
  
login() {  
    this.loading = true;  
    this.authService.login(this.model.username,  
this.model.password)
```

```
.subscribe(  
  data => {  
    // show Navbar  
    this.userService.login()  
      .subscribe(user => {  
  
this.userService.changeSelectedUser('LoggedInUser',user._id  
)  
      .subscribe(selUser => {  
  
this.globalEventManagerService.showNavBar.emit(true);  
      this.router.navigate([this.returnUrl]);  
    });  
  });  
}
```