

Data Integration Control Center

Name: Tanmay Kulkarni

Project Guide: Kalpana Dhende

Class: MCA-III

Div: A

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Tanmay Kulkarni

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Chapter 1

INTRODUCTION

1.1 Company Profile

Name: Kanaka Software Consulting Private Ltd.

Location: #302 Indira Icon, Right Bhusari Colony, Paud Road,
Pune– 411038 INDIA.

Project Guide Name: Aniket Kulkarni.

Description:

The Organization Kanaka Software Consulting is an independent company that prides itself on building delightful Software Development, mobile application development, website development and corporate training. It possesses not only the latest technology gadgets but also the most knowledgeable and experience hands to offer most user friendly customized solutions.

We are headquartered in Pune, India. The world we live in is changing constantly at a rapid speed. And this change, in turn, is creating a huge demand for better technology solutions. We focus on

creating software for environmental data evaluation, including custom solutions for specific needs. We believe in the power of creativity. We take a creative approach to address the needs of a better tomorrow. Our philosophy is to power creative solutions.

Kanaka services enabled a leading Business Process Management (BPM) consultancy in the US, with leading global brands in Pharmaceuticals, Energy and Consumer Products sector in their portfolio, to continue focus on their core competency which is consultancy, while Kanaka brought in the expertise to engineer, develop and manage their product.

Area of Expertise:

The visualization concepts can be considered domain independent.

However, we have built knowledge bases in following domains

- Website Hosting Services
- Professional Website Designing
- Mobile Application Development

Technologies Stack:

- Open Source Technologies
- Microsoft Technologies
- Business Productivity Solutions
- Cloud
- Test Automation Tools
- Mobile App Development

1.2 Existing System and Need for System

There is no Existing System of **Data Integration Control Center**.

Need of **Data Integration Control Center** is when a client comes with the raw data(files) , unsorted data(files) , then **Data Integration Control Center** Extracts, Validates, Transforms and Loads the raw data into SQL database.

1.3 Scope of Work

The proposed project "Data Integration Control Center" is web application. This application is an interface to connect generic integration framework. The application can be used for ETL (Extraction, Transformation and Load). This Application can be used to integrate two different Application with different data storing format (e. g one Application may use NoSQL Database and another could be RDBMS), so "Data Integration Control Center" Responsible for following things:

- 1) Providing Environment for execution of integration process
- 2) Real-time monitoring of Integration Process and execution history.
- 3) Scheduled and On-Demand execution of Integration process
- 4) It facilitate execution of PDI (Pentaho Data Integration) Transformation and Jobs.

We are Integrating two application using this project that is Kvisulize (Visualization tool) with Torqus SCM (supply chain management) for achieving this integration we need to follow following steps:

- 1) Data analysis of this two systems
- 2) Identifying different activities in the process
- 3) Creating Transformation/jobs
- 4) Setting up Integration process with "Data Integration Control Center"

The application allows User to schedule an Integration process with cron expression, or a User can execute a Integration process on a demand.

1.4 Operating Environment – Hardware and Software

Hardware:

Computer: To handle Administrative Work Admin will require Desktop version of an Application.

Mobile: User and supervisor will use Mobile version of an application to perform their task.

Software:

Webstorm:

It is an open-source software rapid development web framework, for use in building dynamic web sites. Webstorm is loosely based on the popular model–view–controller (MVC) development pattern.

WebStorm helps you write code better thanks to the smart code completion, on-the-fly error detection, powerful navigation and refactoring!

The IDE provides first-class support for JavaScript, Node.js, HTML and CSS, as well as their modern successors. Supported frameworks include AngularJS, React, Meteor and more.

Source Tree:

SourceTree is a powerful Git and Mercurial desktop client for developers on Mac or Windows. Fully-Powered DVCS SourceTree simplifies how you interact with Git and Hg repositories so you can focus on coding. Manage all your repositories, hosted or local, through SourceTree's simple interface. Perfect for Newcomers Simplify DVCS for your team. SourceTree can bring everyone up to speed with Git and Mercurial.

Commit, push, pull and merge changes easily with a click of a button Organize your repos with the intuitive bookmarks window

Visualize how your work changes over time with SourceTree's log view Powerful Enough for Experts Make advanced Git and

Mercurial developers even more productive. Review your outgoing and incoming changesets, cherry-pick between branches, patch handling, rebase, stash, shelve, and much more.

Eclipse:

Eclipse is an Integrated Development Environment (IDE) used in computer programming, and is the most widely used Java IDE.

It contains a base work space and an extensible plug-in system for customizing the environment. Eclipse is written mostly in Java and its primary use is for developing Java applications, but it may also be used to develop applications in other programming languages via plug-ins, including: C, C++, COBOL, JavaScript, Perl, PHP, Python.

1.5 Detail Description of Technology Used

AngularJS: AngularJS (commonly referred to as "Angular.js" or "AngularJS 1.X") is a JavaScript-based open source front-end web Application Framework mainly maintained by Google and by a community of individuals and corporations to address many of the challenges encountered in developing Single Page Application. The JavaScript components complement Apache Cordova, the framework used for developing cross-platform mobile apps. It aims to simplify both the development and the testing of such applications by providing a framework for client-side model–view–controller (MVC) and model–view–viewmodel (MVVM) architectures, along with components commonly used in rich Internet applications. In 2014, the original AngularJS team began working on Angular (Application Platform).

The AngularJS framework works by first reading the HTML page, which has embedded into it additional custom tag attributes. Angular interprets those attributes as directives to bind input or output parts of the page to a model that is represented by standard JavaScript

variables. The values of those JavaScript variables can be manually set within the code, or retrieved from static or dynamic JSON resources.

Bootstrap: (Front-End Framework) It is a free collection of tools for creating a websites and web applications. It contains HTML and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions.

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

CSS: Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup

language. Although most often used to set the visual style of web pages and user interfaces written in HTML and XHTML.

SQL: Structured Query Language is used to communicate with a database. SQL statements are used to perform tasks such as update data on a database, or retrieve data from a database. Some common relational database management systems that use SQL are: PostgreSQL, Server Oracle, Sybase, Microsoft SQL Server , Access, etc.

Chapter 2

PROPOSED SYSTEM

2.1 Proposed System

The Data Integration Control System is an automated system. Through our software a client can provide a raw data I. e a .kjb (Kettle Extraction Transformation Transport Load Environment) files which contains raw data. The client can set the raw data I.e. .kjb files for the validations. The system creates a Run time execution environment for the integration process to execute. The Integration process has activities which depend on the client requirement, through which a system executes a process step by step. The system transforms the .kjb file into .ktr file (KTR files are 3D Image Files primarily associated with KeyTruss (Keymark Enterprises, LLC) PENTAHO) and then it stores the data into the postgresql. The system also provides the scheduler for automate the execution of the integration process.

The system has following advantages:-

- 1) User friendly Interface.
- 2) Validations for the files.
- 3) Fast access to the database.

- 4) Less Error.
- 5) Fast execution of the system.
- 6) Automate the integration system through the scheduler.
- 7) Transformation the data through the steps.

2.2 Objectives of System

- 1) The System to be menu-driven and must have the user friendly graphical user interface.
- 2) When a Client needs to transform and validates the Raw data, that raw data should be stored in a kjb files.
- 3) The system should fetch the data and validate it properly according to the requirements.
- 4) The system should returns the validated data.
- 5) The system provides a mechanism for storing a request for validations for a file, i. e the when one request comes asynchronously and at that time the system is validating another file, then the system storing a request in one table and creates a thread dynamically hitting it all the time for accepting a request for validations.

- 6) The user can set the schedule for execution of the process. i. e the user can set the execution on every day or every week or every month. Or he can do execution of process whenever he wants i.e manually.
- 7) The system should provide the notification for the execution of the process.
- 8) The system executes the integration process after fetching, validating and scheduling a raw data.

2.3 User Requirements

- 1) Basic requirement is to transform the raw data files into sql Database.
- 2) Provide an interface to prepare a Runtime Execution Environment for Job Scheduling.
- 3) The user should have a authority to setup an activity.
- 4) Activity must run by itself.
- 5) Each activity must have a mechanism that activates/executes the next activity.
- 6) Files can be loaded by 3rd Party by their place.
- 7) Loading the execution files.

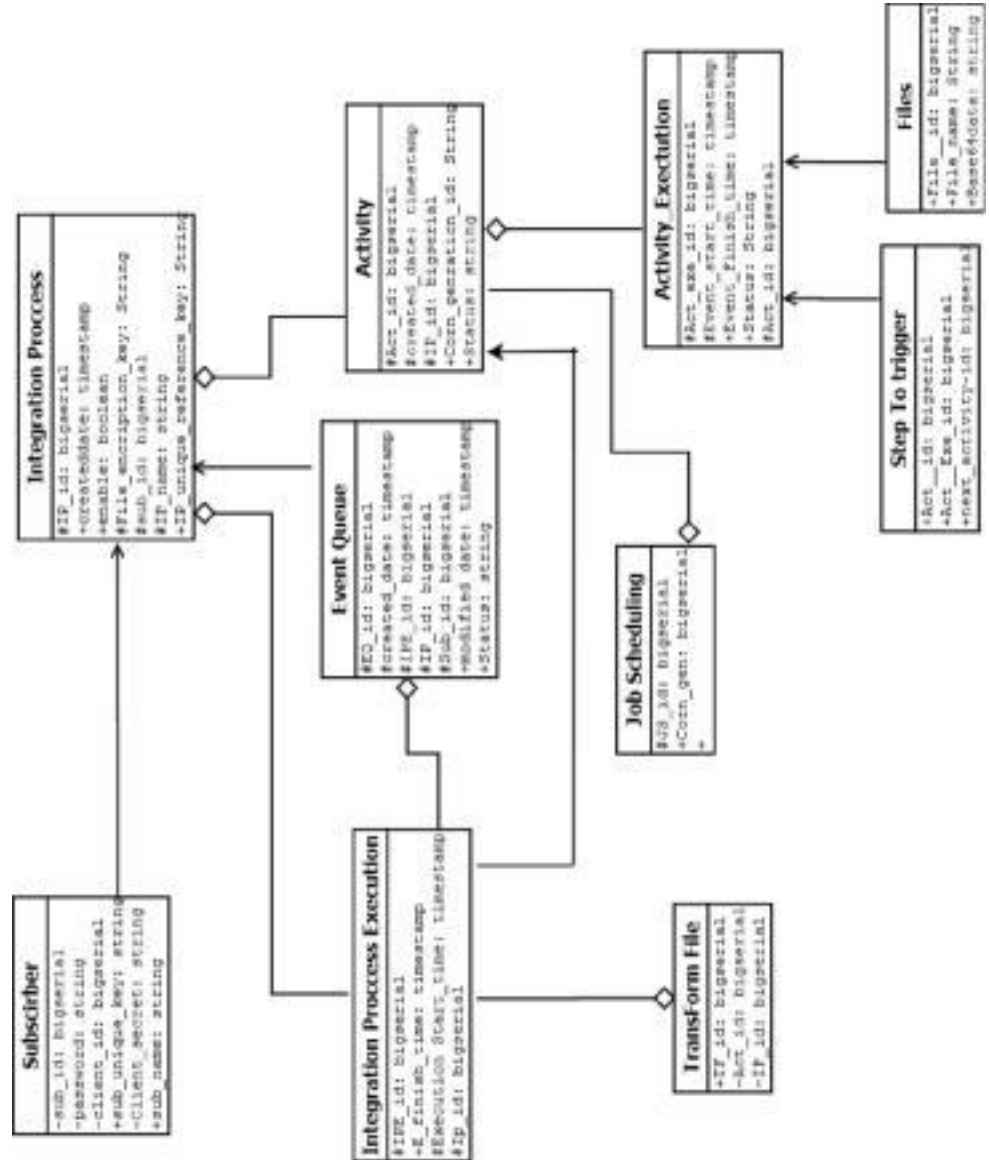
8) The file must be validate.

9) Transforming the files one into another to use.

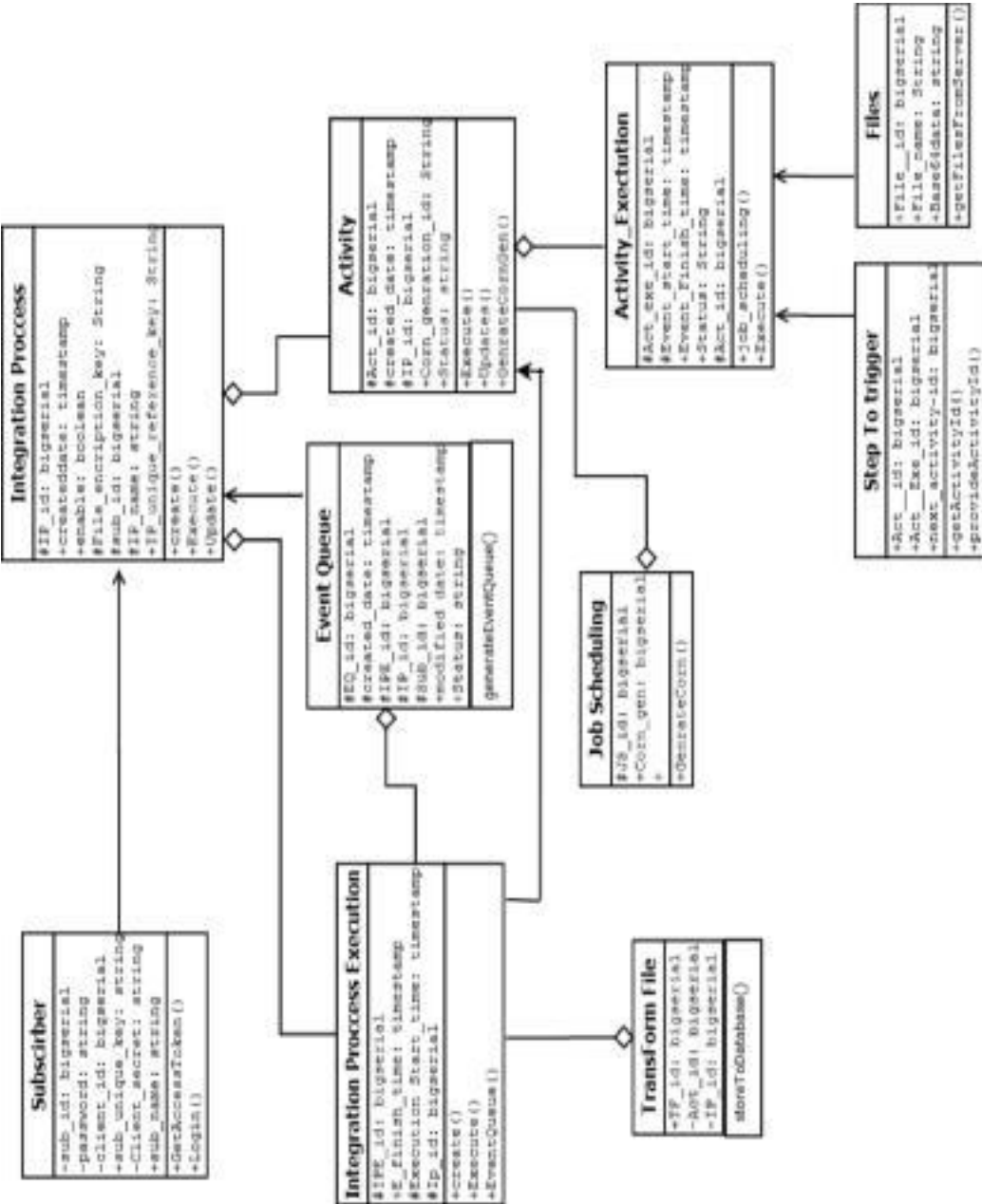
Chapter 3

ANALYSIS & DESIGN

3.1 Object Diagram

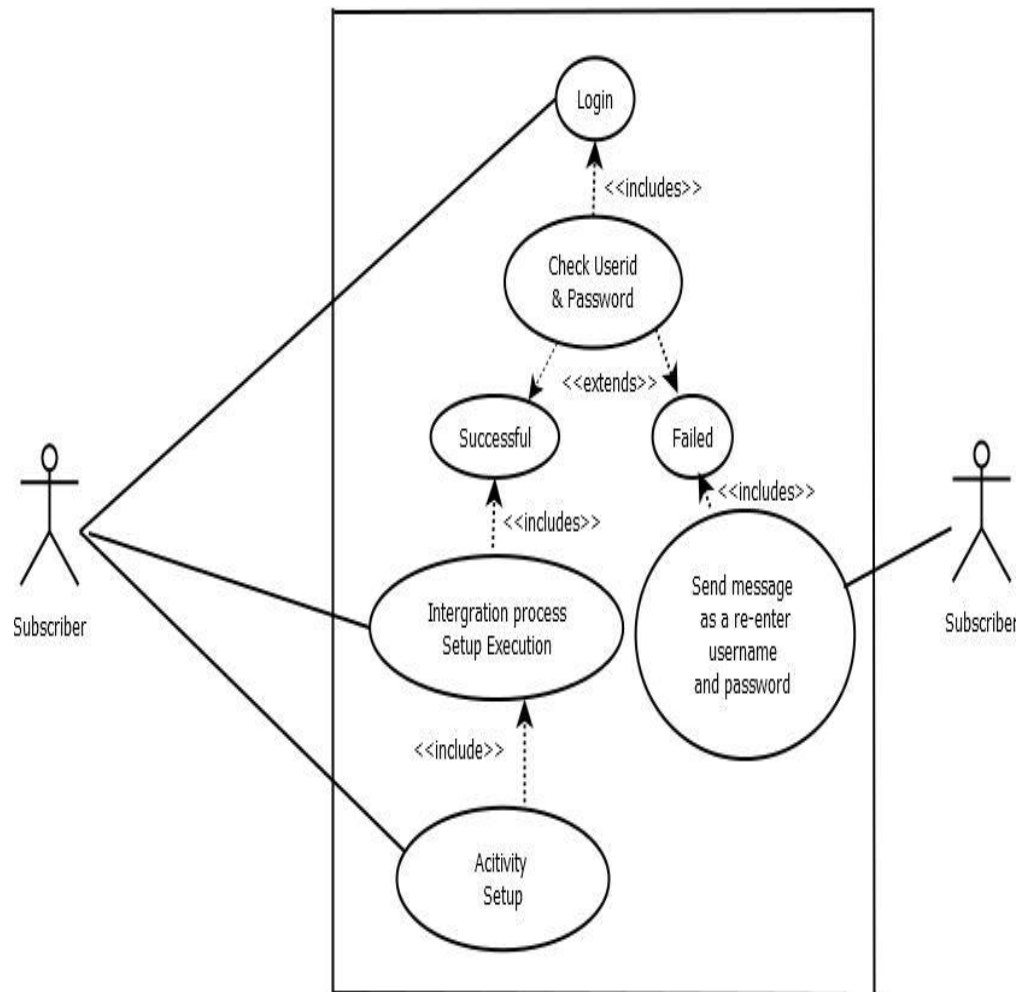


3.2 Class Diagram

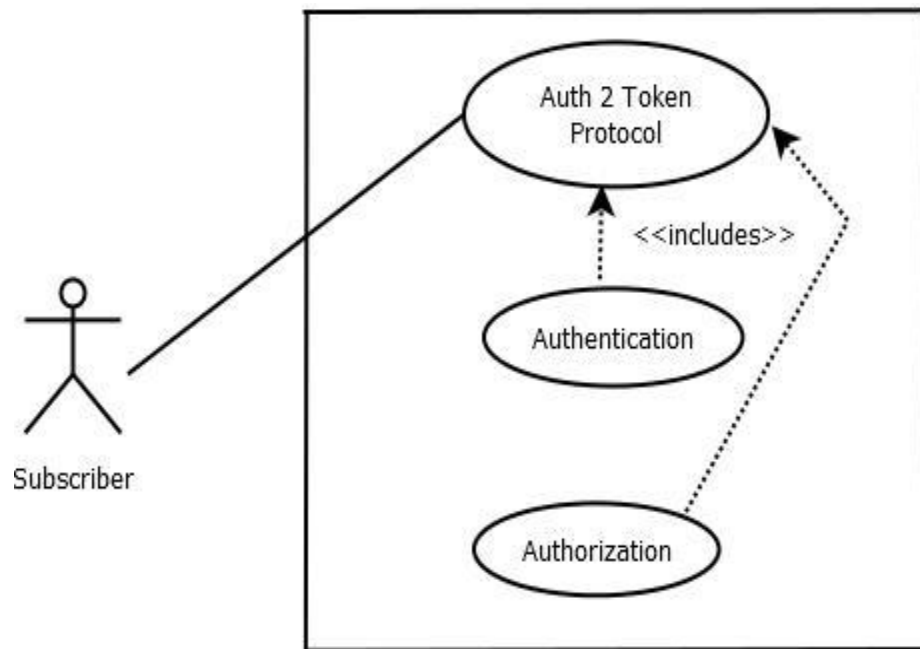


3.3 Use Case Diagrams

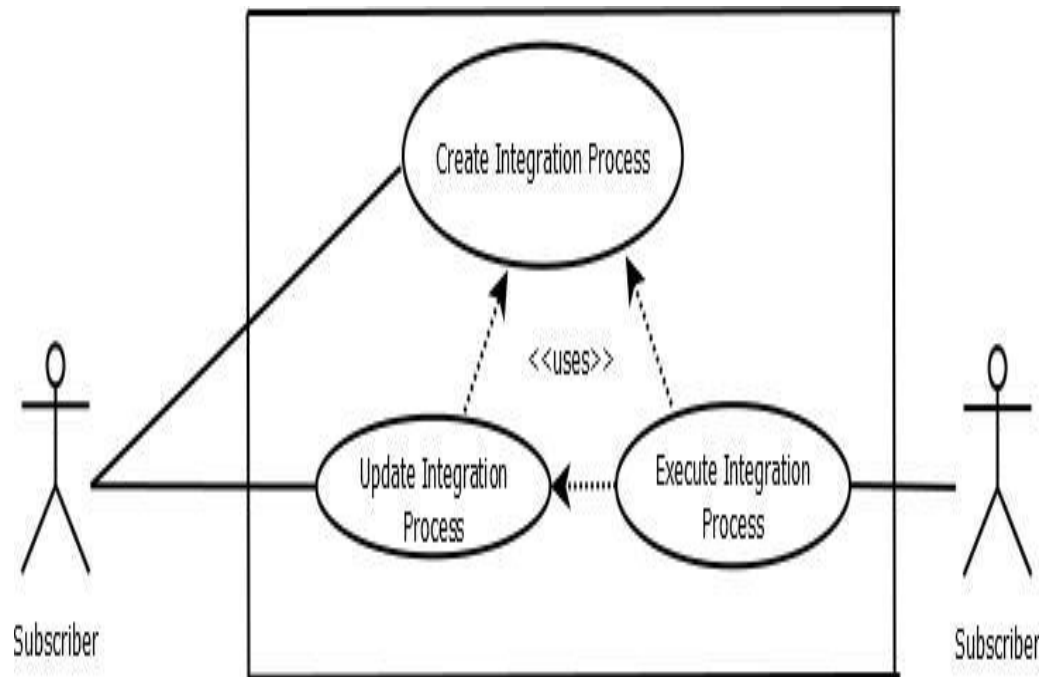
3.3.1 System use case



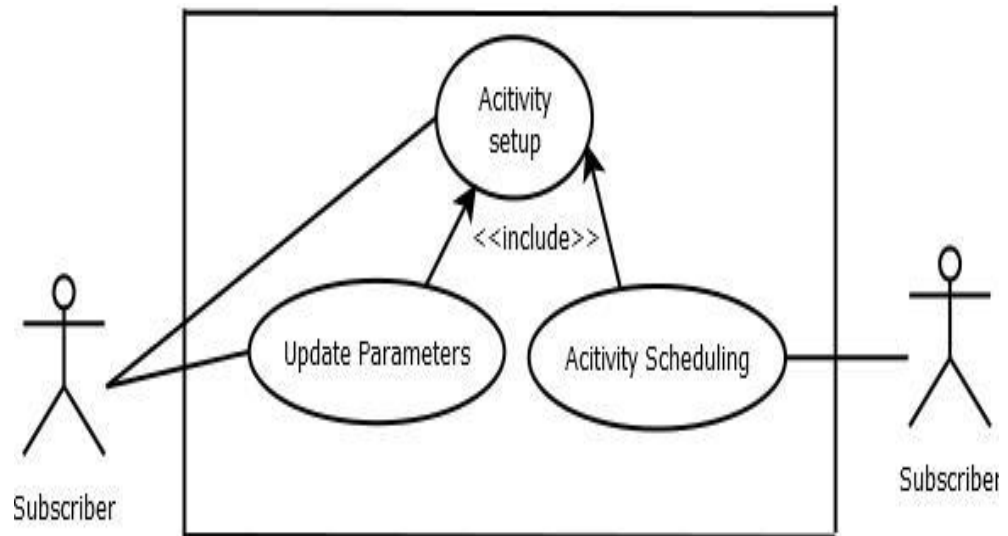
3.3.2 Auth2Token use case



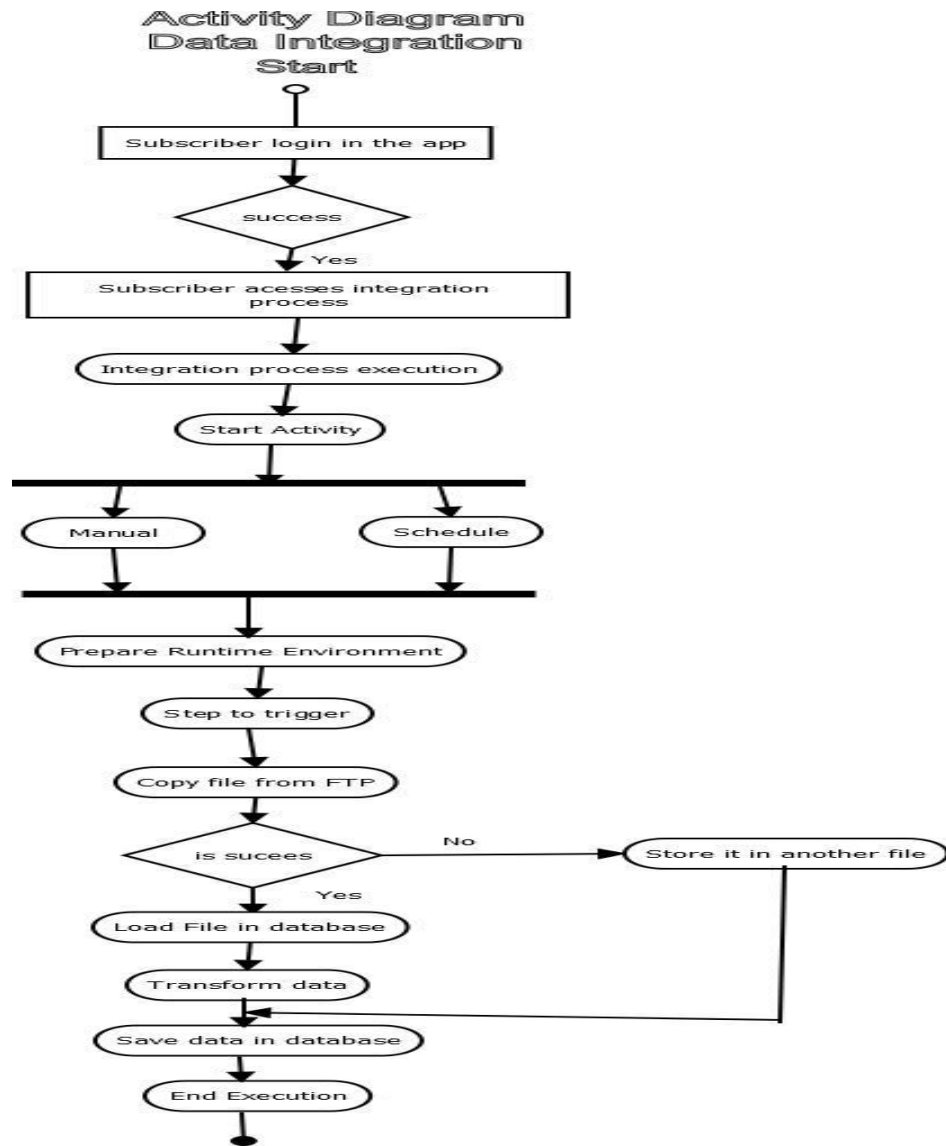
3.3.3 Integration Process use case



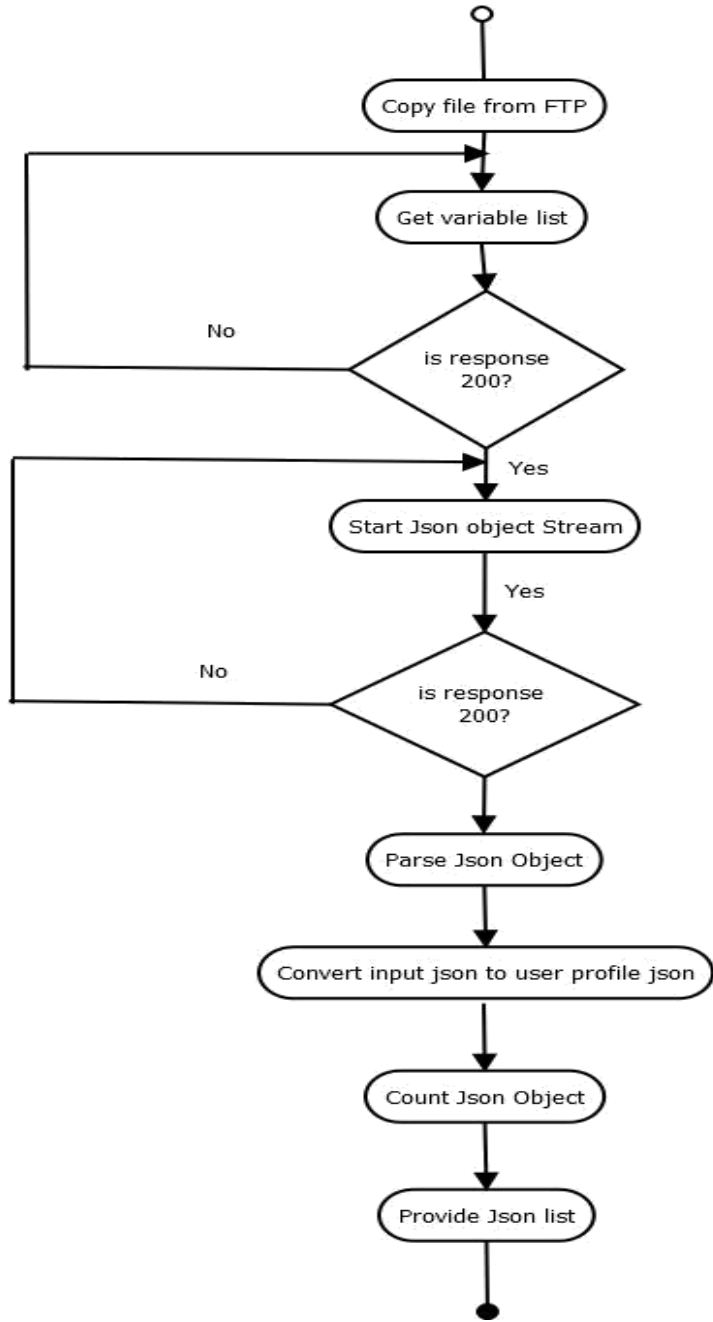
3.3.4 Activity Execution use case



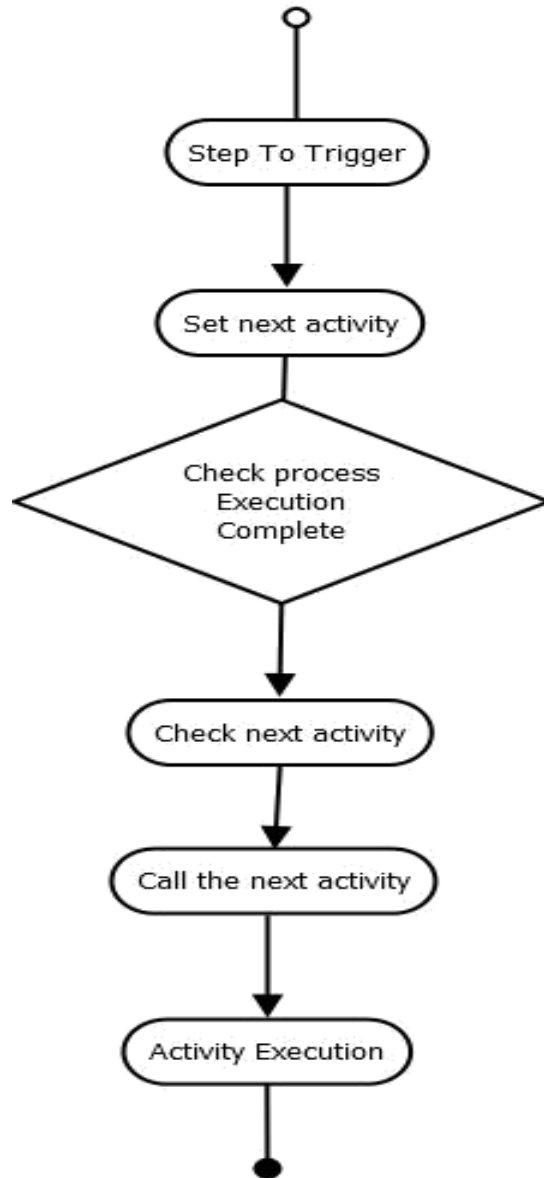
3.4 Activity Diagram



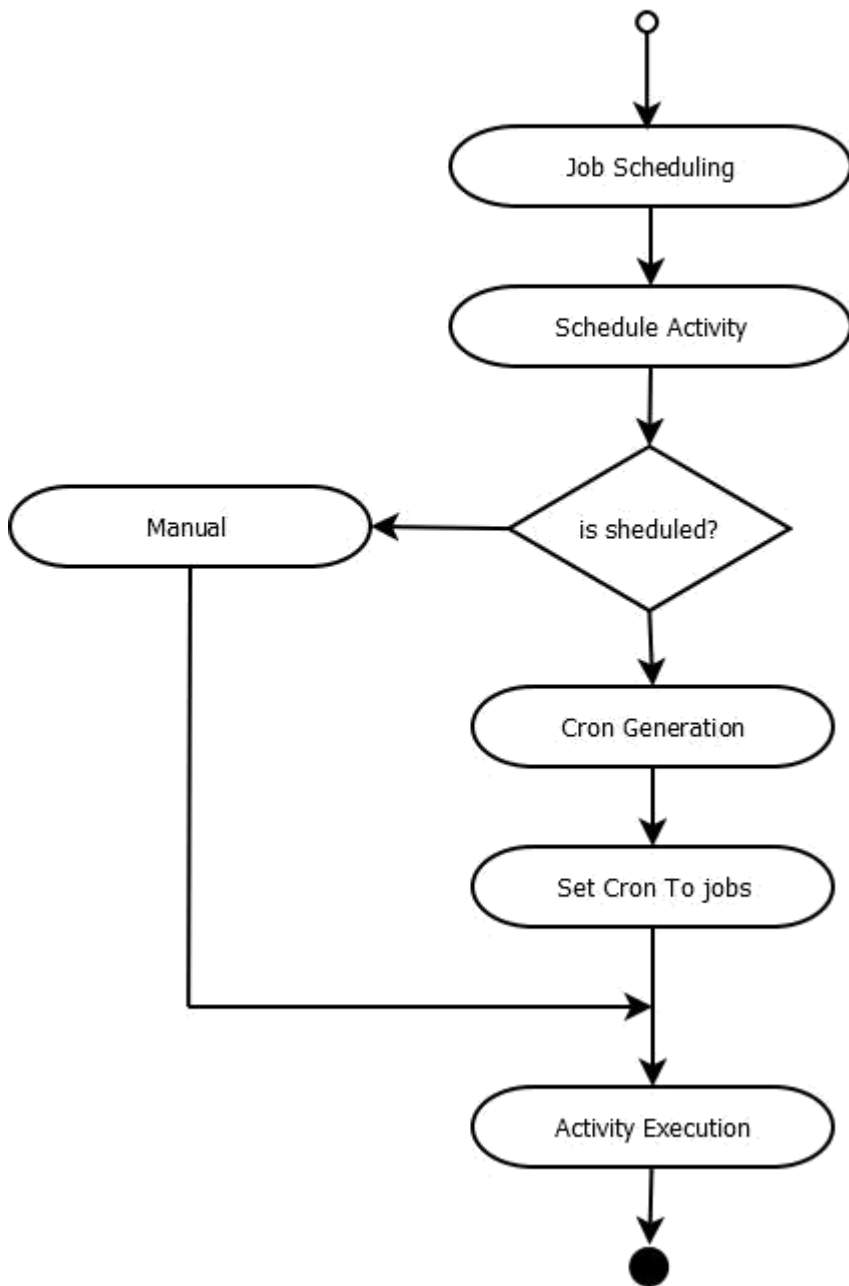
Copy File From FTP Start



Step to Trigger Activity Start

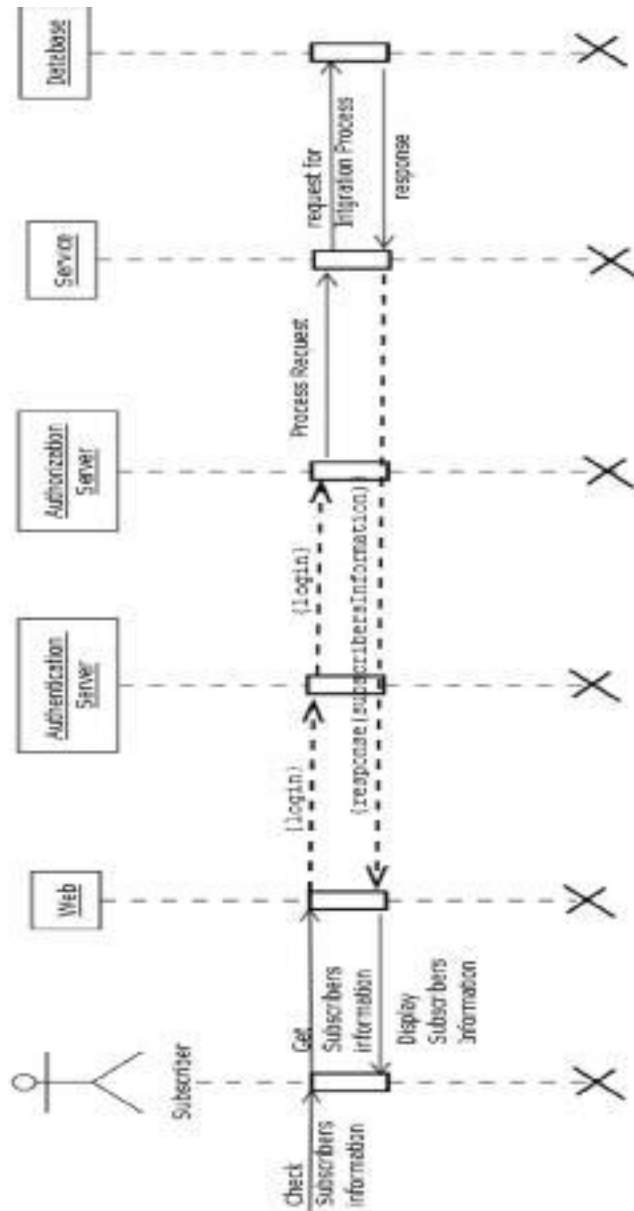


Job Scheduling Start

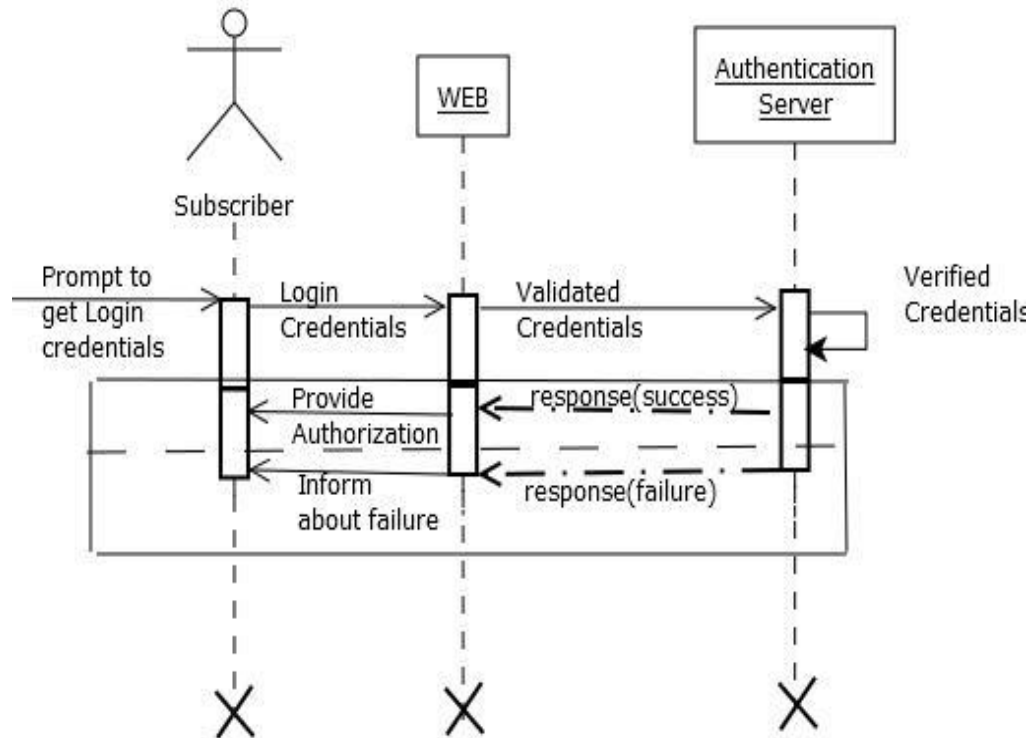


3.5 Sequence Diagram

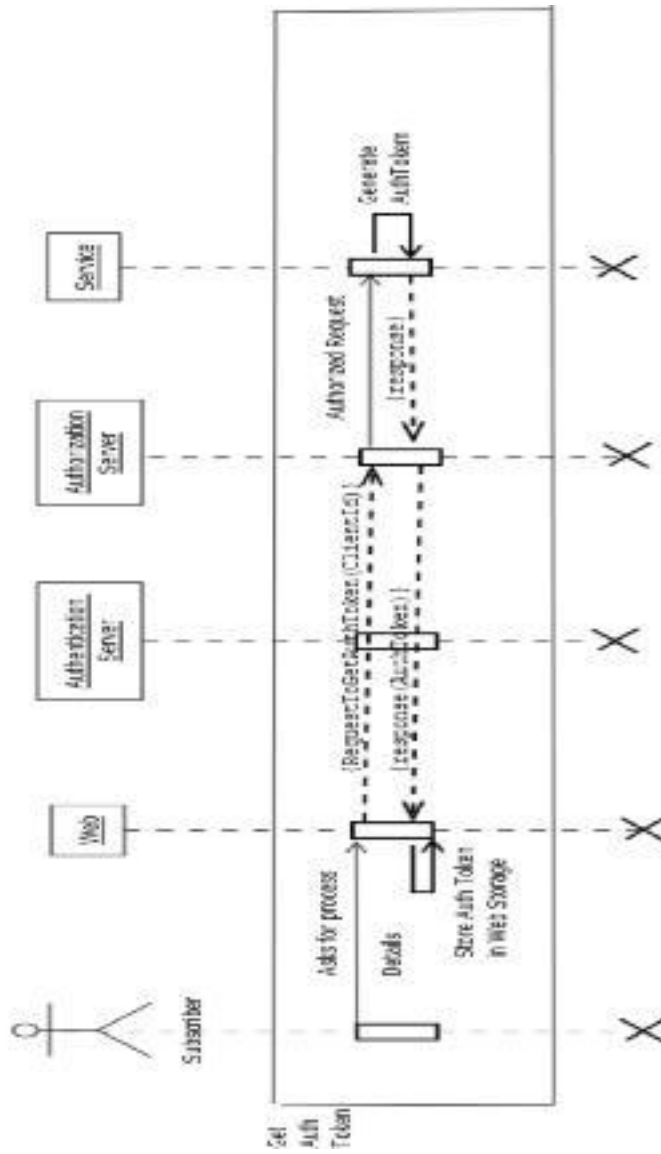
3.5.1 System's Sequence Diagram



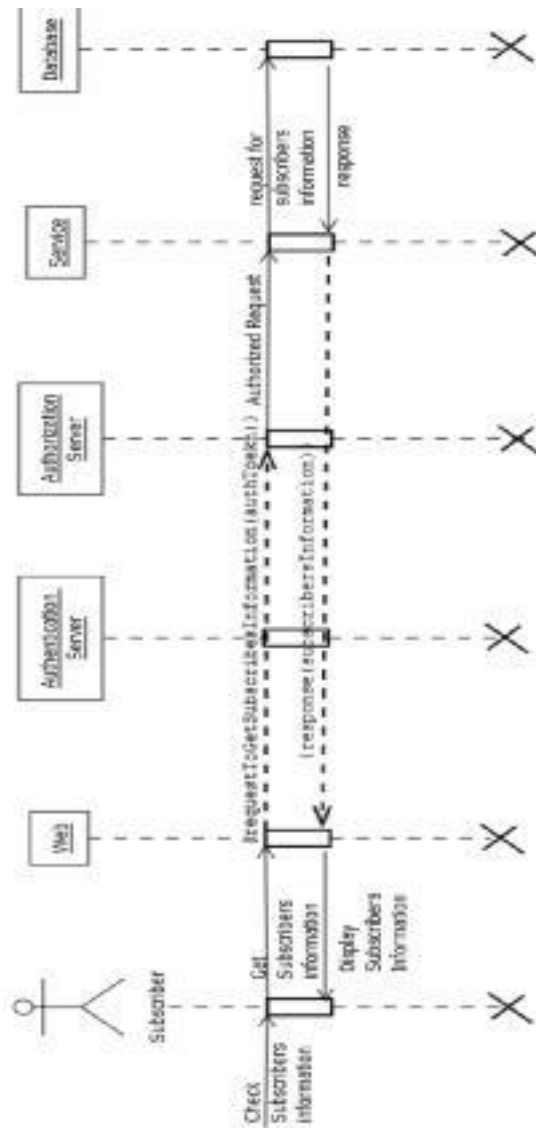
3.5.2 Login Sequence Diagram



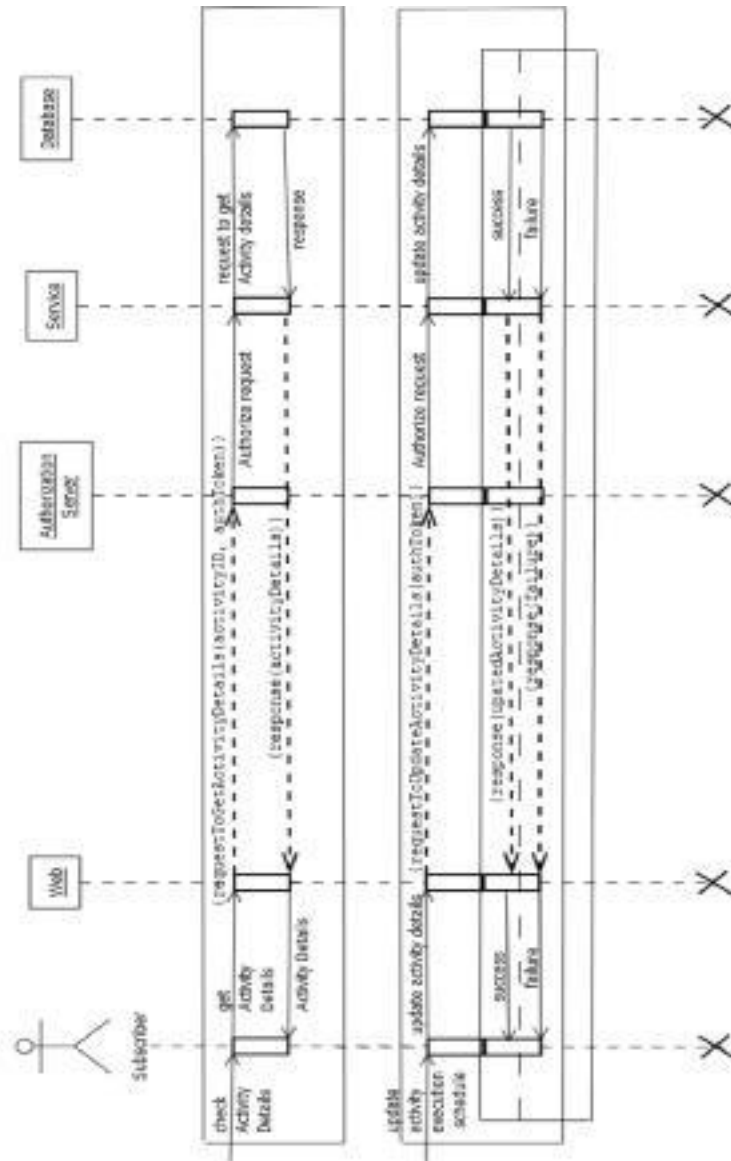
3.5.3 Get Auth Token Sequence Diagram



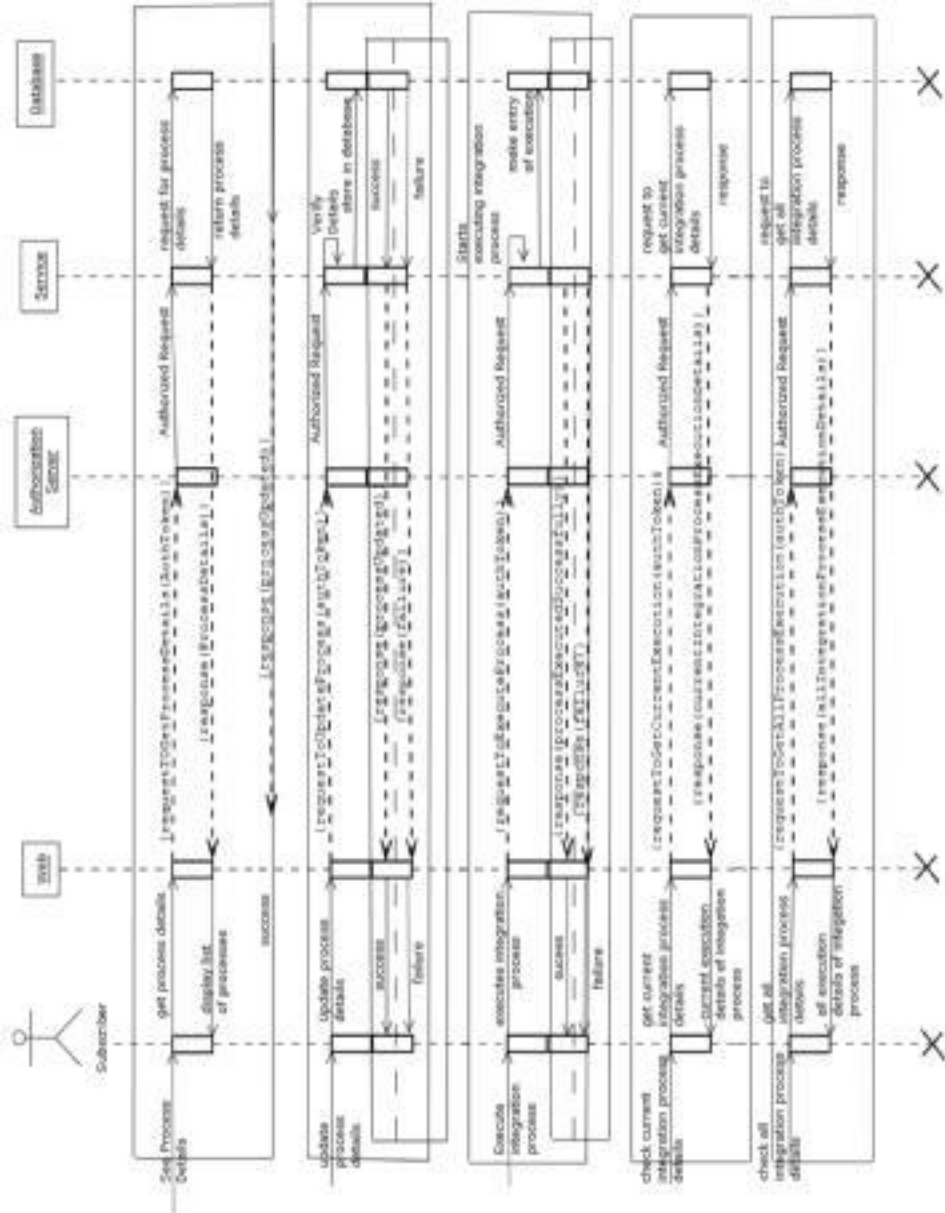
3.5.4 Get Subscriber Sequence Diagram



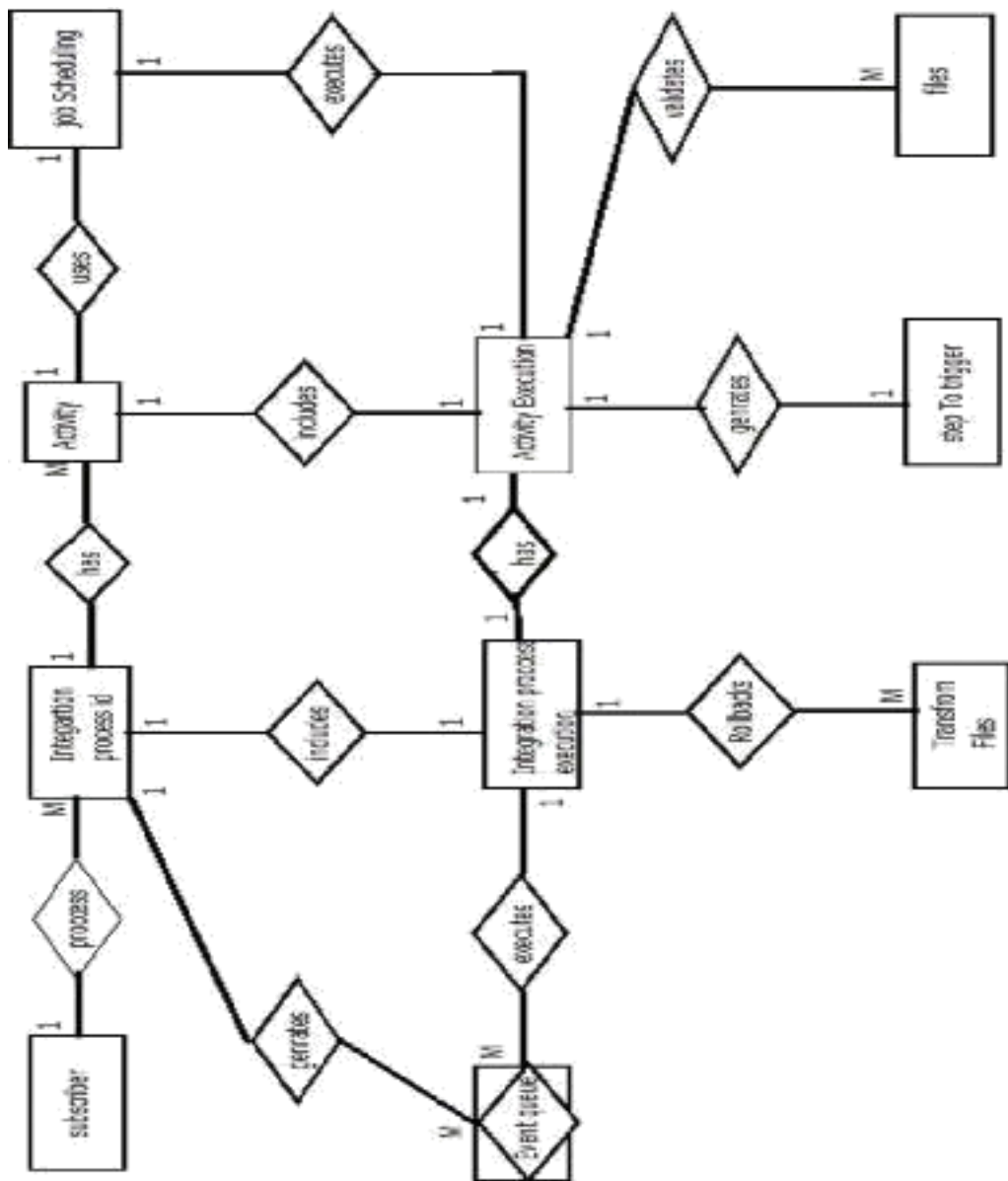
3.5.5 Activity Sequence Diagram



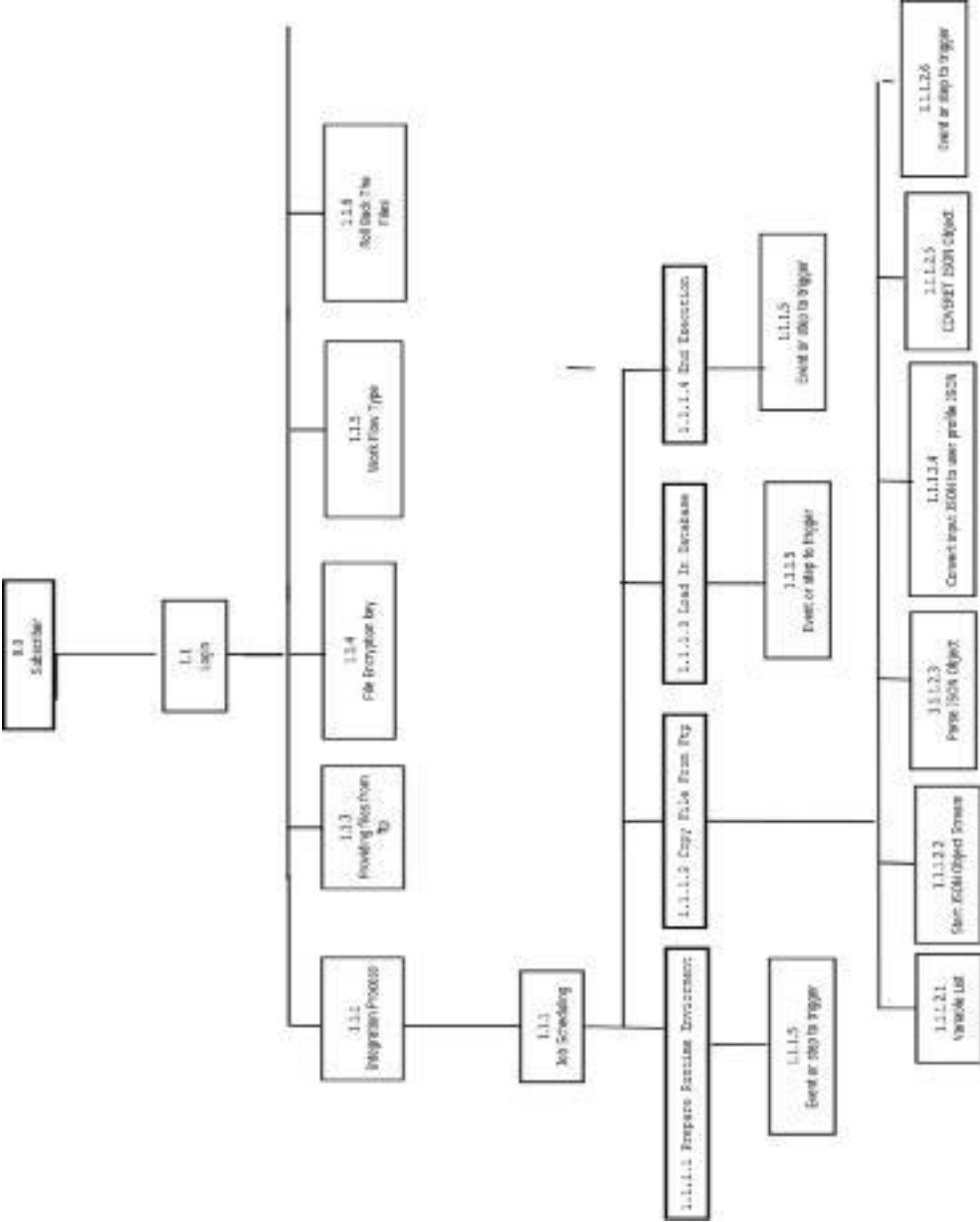
3.5.6 Integration Process Sequence Diagram



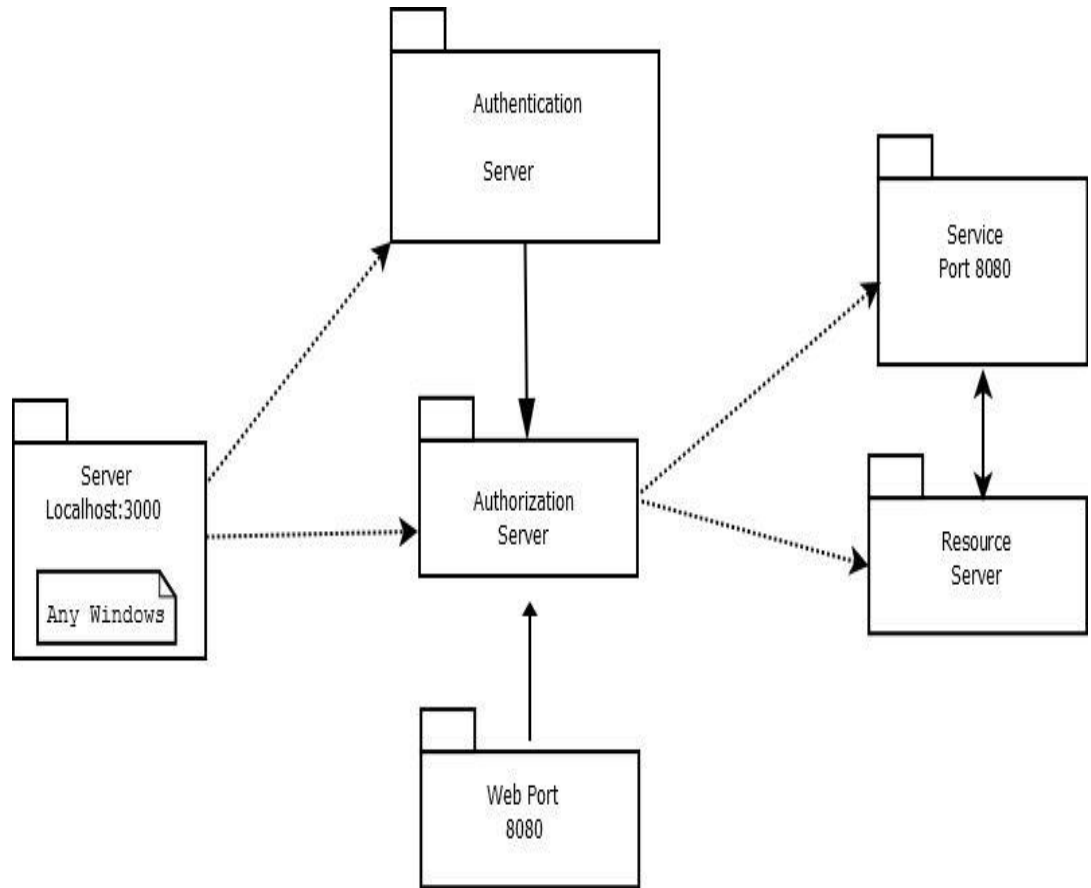
3.6 Entity Relationship Diagram



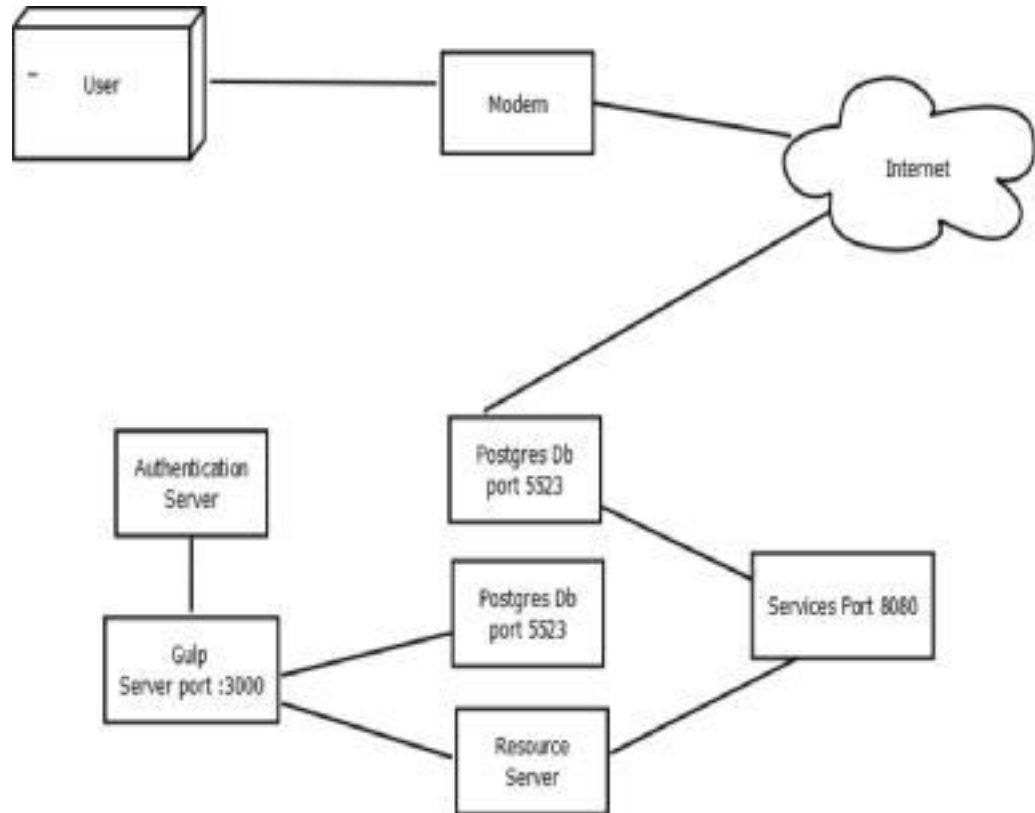
3.7 Module Hierarchy Diagram



3.8 Component Diagram



3.9 Deployment Diagram



3.10 Module Specification

User's Login Page:-

User enters the credential in the login page, the login page verifies the credentials, if the credentials are authorized the the login page generates the auth2token and gives the acces to the system , otherwise it will allow the User to enters the credentials again.

Home Page/Integration Process :-

There can be a one or more integration processes. When a user clicks on the Integration Process, it will allow the user to either executes/updates the process or go to the activities related to the Integration Process.

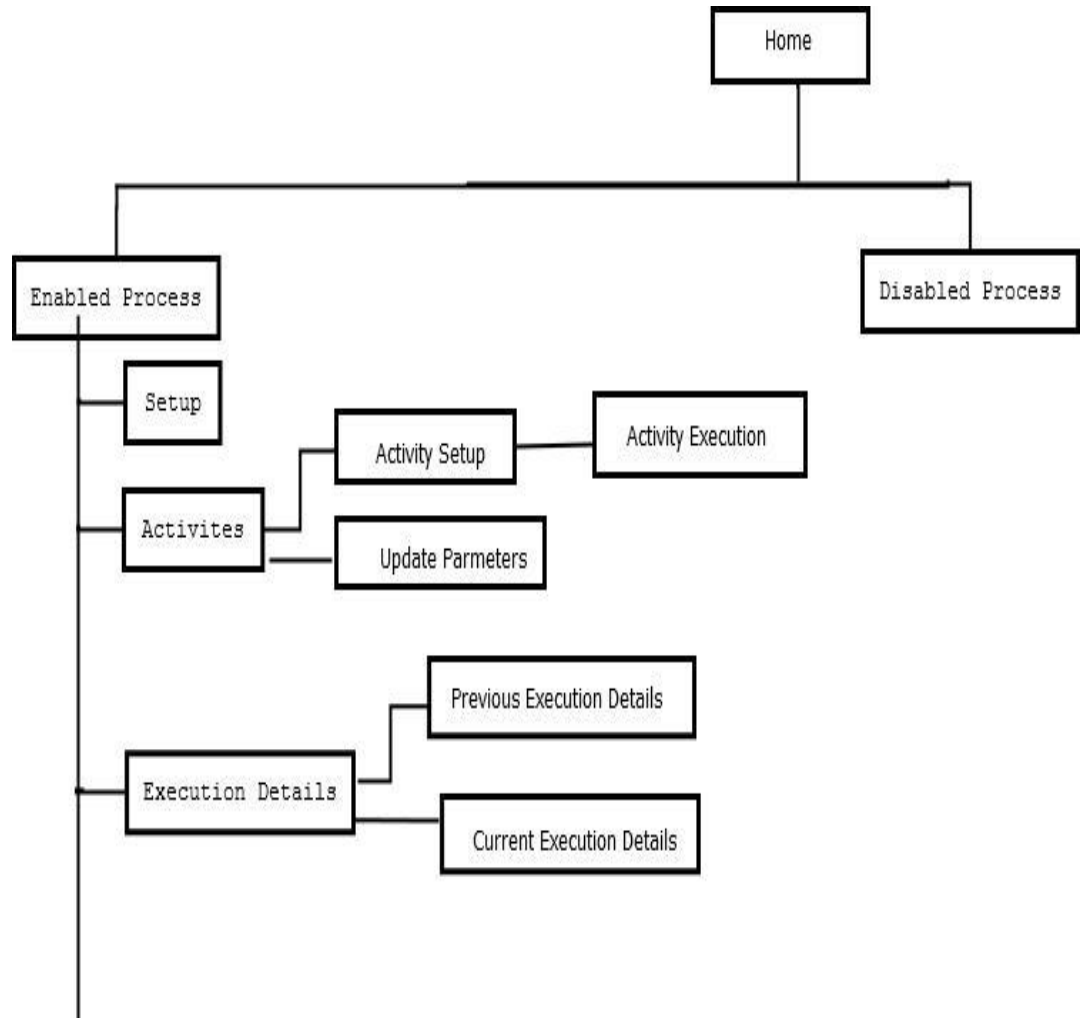
Activity Execution:-

There can be a one or more Activities. When a user clicks on one of the activies then there is a Step to trigger field,by default it has next activity's number but the ser can enter the number the he/she wants to execute an next activity , it will allow the user to execute or update an Activity.

Previous Execution And Current Execution Tab :-

Current Execution Tab will allow the user to see , which activity of which Integration Process is executing currently and details of that activity and Previous Execution Tab will allow the User to see the previous executions and details of those activities.

3.11 Web Site Map Diagram



3.12 User Interface Design



212.18.138.201, https://procon.7

DATA INTEGRATION CENTER

- Active Process
- Disabled Process
 - Load prospect universe data
 - Load prospect universe data on Schedule
 - Load response data into heap

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

SETUP DOCUMENTS

Activities

- Prepare External Environment
- Copy file from FTP
- Load file in Database
- End execution

INTEGRATION PROCESS DETAILS

Integration Process ID	1
Integration Process Unique Reference	85a0d6fa-85ca-98f-aa72-55b2b1a20918
Integration Process Name	Load prospect universe data on Schedule
File Encryption Key	QuartzKey
Enabled	<input checked="" type="checkbox"/>
Created Date	
Modified Date	

ENABLE UPDATE

11:58 AM 3/2/2017

DATA INTEGRATION CONTROL CENTER

- Active Process
- Disabled Process
 - load prospect universe data
 - load prospect universe data for schedule
 - load foreign data into hana

Activities

PREPARE RUNTIME ENVIRONMENT: PROCESSED_SELECTION

Event Group Name: PREPARE_RUNTIME

Event Group Order Index: 1

Activity Name: Prepare Runtime Environment

Activity Cycle Index: 1

Activity Type: INITIALIZATION

Trigger Type: SCHEDULED

Schedule Setup

MINUTES HOURLY DAILY MONTHLY YEARLY ADVANCED

Create Expression: 0 9 5 * * * * *

More details about how to create these expressions can be found here.

10:00 AM 28/03/2020

DATA INTEGRATION CONTROL CENTER

- Active Process
- Disabled Process
 - Load prospect universe data
 - Load prospect universe data on schedule
 - Load Torquecube data into Hadoop

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

PREPARE | EXECUTION | PROCESSING SPECIFICATION

Activities

- Copy file from FTP
- Load file in Torquecube
- Job executor

Activity Execution ID: [ActiveExecution6]

Step To Trigger: 2

Workflow File Path: \$[WorkflowPath](\$[WorkflowPath], \$[WorkflowPath])

Workflow Type: Transformation

Output Parameters

UPDATE

132.168.138.95/whines/process/0/activity5

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

SETUP 23/01/2018

COPY FILE FROM FTP: whines@132.168.138.95 COPY FILE TO: SUPPLY/WHINES

Activities

- Repopulate runtime browserport

Event Group Name	COPY_FILE
Event Group Order Index	1
Activity Name	Copy file from FTP
Activity Order Index	2
Activity Type	INITIALIZATION
Trigger Type	MANUAL
Course New Process Execution	false
Checked Date	
Modified Date	
- Load Data Database
- End execution

DATA INTEGRATION CONTROL CENTER

- > Active Processes
- > Disabled Processes
 - Load prospect universe data
 - Load prospect universe data on schedule
 - Load prospect data into heap

DATA INTEGRATION CONTROL CENTER

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

ACTIVE PROCESS

DISABLED PROCESS

- load prospect universe data
- load prospect universe data on schedule
- load prospect data into New4

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

ACTIVITY EXECUTION

ACTIVITY EXECUTOR ID: [04activityExecution0]

WORKFLOW FILE PATH: [S:\sw\folder\Part\Sub_2\Sub\flow\Proc_2\magna]

STEP TO RESUME: [3]

WORKFLOW TYPE: [Job]

OUTPUT PARAMETERS

UPDATE

DATA INTEGRATION CONTROL CENTER

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

ACTIVITY EXECUTION

ACTIVITY EXECUTOR ID: [04activityExecution0]

WORKFLOW FILE PATH: [S:\sw\folder\Part\Sub_2\Sub\flow\Proc_2\magna]

STEP TO RESUME: [3]

WORKFLOW TYPE: [Job]

OUTPUT PARAMETERS

UPDATE

DATA INTEGRATION CONTROL CENTER

- > Active Process
- > Disabled Process
 - load prospect universe data
 - load prospect universe data on schedule
 - load foreign data into snow

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

SETUP EXECUTIONS

ACTIVITIES

- Prepare Eventive Environment
- Load the in Database
- End execution

COMP FILE PREFIX:TT PROCESSING SPECIFICATION INPUT PARAMETERS

Activity Description ID:

Subscriber ID:

Integration Process Execution ID:

Integration Process ID:

Base Folder Path:

8:51 AM 03/20/17

192.168.1.108:8080/portal/processes/activities/job

DATA INTEGRATION CONTROL CENTER

- Active Processes
- Disabled Processes
 - Load prospect universe data
 - Load prospect universe data on Schedule
 - Load Terminate data file (new)

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

SETUP EXECUTION

Activities

- Preload-Business Development
- Copy file from FTP
- File example

LOAD FILE IN DATABASE	PROCEEDING SOLUTION	INPUT PARAMETERS
Event Group Name	LOAD_FILE	
Event Group Order Index	1	
Activity Name	Load file in Database	
Activity Order Index	1	
Activity Type	INTEGRATION	
Trigger Type	MANUAL	
Columns: New Process Execution	Job	
Created Date		
Modified Date		

10:18 AM 26/08/2017

DATA INTEGRATION CONTROL CENTER

Active Process

Disabled Process

- load prospect universe data
- load prospect universe data on schedule
- load forqase data into Hord

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

STOP EXECUTIONS

LOAD TABLE PROCESSING SPECIFICATION INPUT PARAMETERS

Prepare Existing Environment

Copy file from FTP

Do execution

Activity Execution ID: [ActivityExecutionID]

Workflow file path: [BaseFolderPath\004_300\board\07\Proc_3\stage]

Step To Trigger: 4

Workflow Type: Transformation

Output Parameters:

UPDATE

10:35 AM 2/10/2017

DATA INTEGRATION CONTROL CENTER

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

Active Process
 Disabled Process

- Load prospect universe data
 - Load prospect universe data on schedule
 - Load longrun data into head

SETUP EXECUTIONS REPORT PARAMETERS

LOAD PROSPECT UNIVERSE REPORT PARAMETERS

Activities

Preprocess Runtime Environment

Copy file from FTP

For execution

Input File Name:

Activity Execution ID:

Subscriber ID:

Integration Process Execution ID:

Integration Process ID:

DATA INTEGRATION CONTROL CENTER

- Active Process
- Disabled Process
 - Load prospect universe data
 - Load prospect universe data on schedule
 - Load foreign data into hew4

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

SETUP EXECUTIONS

Activities

Repair by new browser
 Copy the last FTP
 Load the in database

Next Group Name	PROCESSED SPECIFICATION	DEFINITION
Next Group Order Index	IND_EXEC(IND)	IND_EXEC(IND)
Activity Name	2	Ind execution
Activity Order Index	4	
Activity Type	END	
Trigger Type	MANUAL	
Could be new Process Execution	Isa	
Created Date		
Modified Date		

3:59 AM 3/8/2017

The screenshot displays a web application interface for monitoring and controlling data integration processes. The main title is "LOAD PROSPECT UNIVERSE DATA ON SCHEDULE".

DATA INTEGRATION CONTROL CENTER

- Active Processes
- Disabled Processes
- Load prospect universe data
 - Load prospect universe data on Schedule
 - Load prospect universe data (via http)
 - Load prospect universe data (via http)

EXECUTIONS

12/13/17 EXECUTIONS

Executions

Average Execution Time

Process Execution Details

Load Execution Details

The interface includes a navigation menu on the left with options like "Active Processes", "Disabled Processes", and "Load prospect universe data". The "EXECUTIONS" section features a bar chart for "Average Execution Time" and a table for "Process Execution Details". The "Load prospect universe data" section is expanded, showing three active processes: "Load prospect universe data on Schedule", "Load prospect universe data (via http)", and "Load prospect universe data (via http)".

DATA INTEGRATION CONTROL CENTER

- Active Processes
 - Load Side Item data into MySQL
- Disabled Processes
 - Load prospect address data
 - Load prospect address data on Schedule
 - Load response data into MySQL

LOAD SIDE ITEM DATA INTO MYSQL

STATUS: EXECUTIONS

Executions

Average Execution Time: 2 seconds

View Execution Details

Integration Process Execution ID	Integration Process ID	Execution Start Time	Execution Finish Time	Status
955	4	08 Feb 2017 at 11:00 PM	08 Feb 2017 at 11:00 PM	COMPLETED

Previous Executions Details

10:00 PM 2/8/2017

DATA INTEGRATION CONTROL CENTER

LOAD SIDE ITEM DATA INTO MYSQL

ACTIVE PROCESS

- Local Item Item data into MySQL

DISABLED PROCESS

- Local prospect address data
- Local prospect address data on Schedule
- Local Corporate data into New4

EXECUTIONS

Current Execution Detail

Execution ID	StartTime	FinishTime	Status
955	08 Feb 2017 at 12:00 PM	08 Feb 2017 at 12:00 PM	COMPLETED
956	08 Feb 2017 at 11:35 AM	08 Feb 2017 at 11:35 AM	COMPLETED
953	08 Feb 2017 at 11:03 AM	08 Feb 2017 at 11:03 AM	COMPLETED
952	08 Feb 2017 at 10:35 AM	08 Feb 2017 at 10:35 AM	COMPLETED
951	08 Feb 2017 at 10:00 AM	08 Feb 2017 at 10:00 AM	COMPLETED

DATA INTEGRATION CONTROL CENTER

Active Process

- Load Side Item data into MySQL

Disabled Process

- Load prospect address data
- Load prospect address data as schedule
- Load language data into head

LOAD SIDE ITEM DATA INTO MYSQL

EXECUTIONS

Current Execution Detail

Executions

Execution ID	Starttime	Activity Type	Starttime	Endtime	Status	Outcome
856	08 Feb 2017 at 12:00 PM	INTEGRATION	08 Feb 2017 at 12:00 PM	08 Feb 2017 at 12:00 PM	✓	COMPLETED
Activity Name	Activity Type	Starttime	Status	Outcome		
Prepare Runtime Environment	INTEGRATION	08 Feb 2017 at 12:00 PM	✓	COMPLETED		
Load Item into MySQL	INTEGRATION	08 Feb 2017 at 12:00 PM	✓	COMPLETED		
End execution	END	08 Feb 2017 at 12:00 PM	✓	COMPLETED		

Execution ID : 856 Starttime : 08 Feb 2017 at 11:35 AM Endtime : 08 Feb 2017 at 12:25 AM Status : COMPLETED

102.168.2.85(20) | Request: Done | Data Integration | E:\Kulouatze_MySQL (DICC_FRAMEWORK)\Integration-Files | E:\Kulouatze_MySQL (DICC_FRAMEWORK)\Integration-Files | (sub_1)\Proc_4\Peripherals\prepare-runtime-environment.kjb

DATA INTEGRATION CONTROL CENTER

- Active Process
 - Load table data into table
- Disabled Process
 - Load prospect archive data
 - Load prospect archive data on schedule
 - Load response data into table

LOA

Execution ID: E:\Kulouatze_MySQL (DICC_FRAMEWORK)\Integration-Files

Subscriber ID: 1

Integration Process ID: 908

Execution ID: 4

Integration Process ID: 4

Source file: E:\source\ehoh

FDI File Path: E:\Kulouatze_MySQL (DICC_FRAMEWORK)\Integration-Files\sub_1\Proc_4\Peripherals\prepare-runtime-environment.kjb

Log Entries

- 2017-02-08 06:30:00.033 : Executing Prepare Runtime Environment

FinishTime : 08 Feb 2017 at 12:00 PM **COMPLETED**

StartTime	Status	Outcome
08 Feb 2017 at 12:00 PM	✓	■
08 Feb 2017 at 12:00 PM	✓	■
08 Feb 2017 at 12:00 PM	✓	■

FinishTime : 06 Feb 2017 at 11:15 AM **COMPLETED**

DATA INTEGRATION CONTROL CENTER

LOAD SIDEL ITEM DATA INTO MYSQL

SETUP EXECUTIONS

Activities INTEGRATION PROCESS DETAILS

Prepare runtime Environment	Integration Process ID	4
Load Item into MySQL	Integration Process Unique Reference	8002bae0-d7de-11e1-af28-0e0000000000
End execution	Integration Process Name	Load Sidel Item data into MySQL
	File Encryption Key	wh176038
	Enabled	<input checked="" type="checkbox"/>
	Created Date	
	Modified Date	

CREATE UPDATE

DATA INTEGRATION CONTROL CENTER

Active Process

- Load Sidel Item data into MySQL

Disabled Process

3:07 PM 1/19/2017

132.168.1.58:8081 -> /admin/process/activities/01

DATA INTEGRATION CONTROL CENTER

LOAD SIDEL ITEM DATA INTO MYSQL

Active Process

- Load Sidel Item data into MySQL
- Disabled Process

ACTIVITIES

PREPARE RUNTIME ENVIRONMENT PROCESSING SPECIFICATION

Event Group Name	PREPARE_RUNTIME
Event Group Order Index	1
Activity Name	Prepare Runtime Environment
Activity Order Index	1
Activity Type	ITERATION
Trigger Type	SCHEDULED

Schedule Setup:

MINUTES HOURLY DAILY MONTHLY YEARLY ADVANCED

00:05:00

3:07 PM 1/19/2020

192.168.1.58:8080/Forms/processView.asp?1

DATA INTEGRATION CENTER

- Active Process
 - Load Error Item into MySQL
 - Disabled Process

Trigger Type: **SCHEDULED**

Schedule Setup

MINUTES HOURLY DAILY MONTHLY YEARLY ADVANCED

Cron Expression: 0 0/15 * * * *

More details about how to create these expressions can be found here

Cron Expression: 0 0/30 * * * ?

STATUS: SCHEDULED

Class Name: ProcessException

Class: Bus

Created Code

Modified Code

3:07 PM 10/1/2013

DATA INTEGRATION CONTROL CENTER

Active Process

- Load Item into MySQL
- Disabled Process

LOAD SIDE ITEM DATA INTO MYSQL

STATUS DOCUMENTS

ACTIVITIES

PREPARE BERTHUB DEVELOPMENT PROCESSING SPECIFICATION

Activity Execution ID:

Step To Trigger:

Workflow File Path:

Workflow Type:

Output Parameters:

UPDATE

15:27 PM 1/11/2013

DATA INTEGRATION CONTROL CENTER

LOAD SIDE ITEM DATA INTO MYSQL

STATUS: ENABLED

Activities

MySQL runtime Environment

End executor

LOAD ITEM INTO MYSQL	EXECUTION SPECIFICATION	GPU INFORMATION
Event Group Name	LOAD_MYSQL_DATA	
Event Group Order Index	1	
Activity Name	Load Item into MySQL	
Activity Order Index	2	
Activity Type	PROCESSION	
Trigger Type	MANUAL	
Course New Process Execution	table	
Created Date		
Modified Date		

- Active Process
 - Load side item data into mysql
- Disabled Process
 - Load prospect archive data
 - Load prospect archive data on schedule
 - Load foreign auto data from

DATA INTEGRATION CONTROL CENTER

- Active Process
 - Load Side Item data into MySQL
- Disabled Process
 - Load prospect entrance data
 - Load prospect entrance data on Schedule
 - Load Torqueus data into Headq

LOAD SIDE ITEM DATA INTO MYSQL

SETUP EXECUTIONS

Activities

- Prepare Runtime Environment
 - Load prospect entrance data
- Load execution

LOAD ITEM INTO MYSQL

PROCESSING SPECIFICATION

Activity Execution ID: [ActiveExecution]

Workflow File Path: [BaseFolderPath].Sub.[SubscriptionID].Proc.[Strategy]

Step To Toggle: 3

Workflow Type: Transformation

Output Parameters

UPDATE

DATA INTEGRATION CONTROL CENTER

- Active Process
 - Load data from into mysql
- Disabled Process
 - Load prospect address data
 - Load prospect address data on database
 - Load corporate data into mysql

LOAD SIDEL ITEM DATA INTO MYSQL

EXECUTIONS

Activities

Project based specification

Etd Item Car Path

UPDATE

Windows taskbar: 10:10 AM 2/26/2017

The screenshot shows a web application interface for managing data integration. The main content area is titled "LOAD SIDEL ITEM DATA INTO MYSQL". It features a navigation menu with "SETUP" and "EXECUTIONS" options. The "EXECUTIONS" section is active, displaying a list of execution records. A "Previous Executions Detail" section provides a breakdown of a specific execution, including its ID, process ID, start and finish times, and status.

DATA INTEGRATION CONTROL CENTER

- Active Process
 - load side item data into mysql
- Disabled Process
 - load prospect universe data
 - load prospect universe data in reverse
 - load foreign data into mysql

LOAD SIDEL ITEM DATA INTO MYSQL

EXECUTIONS

Average Execution Time: 1 second

Load Execution Details

Integration Process Execution ID	881
Integration Process ID	4
Execution Start Time	06 Feb 2017 at 1:00 PM
Execution Finish Time	06 Feb 2017 at 1:00 PM
Status	COMPLETED

Previous Executions Detail

DATA INTEGRATION CONTROL CENTER

LOAD SIDEL ITEM DATA INTO MYSQL

Active Process

- Load Sidel Item data into MySQL

Disabled Process

- Load prospect universe data
- Load prospect universe data on Schedule
- Load Tongue data into MySQL

EXECUTIONS

Current Execution Detail

Execution ID	StartTime	EndTime	ActivityType	StartTime	Status	Outcome
660	05 Feb 2017 at 1:00 PM	05 Feb 2017 at 1:00 PM	INTEGRATION	05 Feb 2017 at 1:00 PM	✓	COMPLETED
ActivityName						
Prepare Runtime Stacktrace						
Load Item into MySQL			INTEGRATION	05 Feb 2017 at 1:00 PM	✓	COMPLETED
End execution			END	05 Feb 2017 at 1:00 PM	✓	COMPLETED

Execution ID : 660 StartTime : 05 Feb 2017 at 12:35 PM EndTime : 05 Feb 2017 at 12:35 PM Status : COMPLETED

157.136.1.98 (21.77.17.1) | 157.136.1.98 (21.77.17.1) | 157.136.1.98 (21.77.17.1)

DATA INTEGRATION CONTROL CENTER

- Active Process
 - Load Data from data into MySQL
- Disabled Process
 - Load project reference data
 - Load project reference data on Schedule
 - Load Terpinone data into Hadoop

LOA

Source folder: E:\Visualize_MySQL\DICC_FRAMEWORK\IntegrationFiles

Subscriber ID: 1

Integration Process Execution ID: 661

Integration Process ID: 4

Source file: \$(sourceFilePath)

OCI File Path: E:\Visualize_MySQL\DICC_FRAMEWORK\IntegrationFiles\sub_1\proc_4\tereshotles\prepare-runtime-environment.jsp

Log Entries

- 2017-02-06 07:30:00.036 : Executing Prepare Runtime Environment

OK

Runtime: 06 Feb 2017 at 1:00 PM

Runtime	Status	Outcome
06 Feb 2017 at 1:00 PM	✓	OK
06 Feb 2017 at 1:00 PM	✓	OK
06 Feb 2017 at 1:00 PM	✓	OK

Runtime: 06 Feb 2017 at 12:35 PM

COMPLETED

3.13 Data Dictionary

<u>Field Name</u>	<u>Data Type</u>	<u>Size</u>	<u>Description</u>
Activity_id	Bigserial	32	It is used for Activity_Id
Activity_exe_id	bigserial	32	Activity execution id
Activity_name	String	max	Name of the activity
Base64Data	String	max	
Corn_gen_id	bigserial	32	Corn generation id
Created_date	timestamp		Process Created date
Enable	boolean	1	Flag
EQ_id	bigserial	32	Event Queue id
Event_finish_time	bigserial	32	Event finish time
Event_start_time	bigserial	32	Event start time
File_encryption_key	bigserial	32	File encryption key
File_name	String	max	
File-id	bigserial	32	Primary Key
IP_id	bigserial	32	Integration process id
Ip_name	String	max	Integration process name
Ip_unique_referencing	String	max	Referencing key
IPE_end_time	timestamp		Integration process End time

IPE_id	bigserial	32	Integration process execution id
IPE_start_time	timestamp		Integration process Start time
Js_id	bigserial	32	Job scheduling id
Modified_date	timestamp		Modified date
next_Act_id	Bigserial	32	
Status	String	max	Status
Sub_id	Bigserial	32	Subscriber_id
Tf_id	Bigserial	32	Transform id

3.14 Table specifications

Subscriber:

<u>Field Name</u>	<u>Data Type</u>	<u>Size</u>	<u>Constraints</u>
Sub_id	bigserial	32	Primary Key
Password	String	50	
Client_id	bigserial	32	
Sub_unique_key	String	100	
Client_secret	String	100	
Sub_name	String	100	

Integration Process:

<u>Field Name</u>	<u>Data Type</u>	<u>Size</u>	<u>Constraints</u>
IP_id	Bigserial	32	Primary Key
Created_date	Timestamp		
Enable	Boolean	1	
File_encryption_key	Bigserial	32	
Ip_name	String	32	
Ip_unique_referencing	String	32	
Sub_id	Bigserial	32	Foriegn Key

Integration Process Execution:

<u>Field Name</u>	<u>Data Type</u>	<u>Size</u>	<u>Constraints</u>
IPE_id	Bigserial	32	Primary Key
IPE_end_time	Timestamp		
IPE_start_time	Timestamp		
IP_id	Bigserial	32	Foriegn Key

Event Queue:

<u>Field Name</u>	<u>Data Type</u>	<u>Size</u>	<u>Constraints</u>
EQ_id	bigserial	32	Primary Key
Created_date	timestamp		
IPE_id	bigserial	32	Foriegn Key
IP_id	bigserial	32	Foriegn Key
Sub_id	bigserial	32	Foriegn Key
Modified_date	timestamp		
Status	String	Max	

Activity:

<u>Field Name</u>	<u>Data Type</u>	<u>Size</u>	<u>Constraints</u>
Activity_id	bigserial	32	Primary Key
Created_date	timestamp		
Ip_id	bigserial	32	Foriegn Key
Status	string	Max	

Activity Execution:

<u>Field Name</u>	<u>Data Type</u>	<u>Size</u>	<u>Constraints</u>
Activity_exe_id	bigserial	32	Primary Key
Event_finish_time	bigserial	32	
Event_start_time	bigserial	32	
Status	string	Max	
Activity_id	bigserial	32	Foreign Key

Job Scheduling

<u>Field Name</u>	<u>Data Type</u>	<u>Size</u>	<u>Constraints</u>
Js_id	bigserial	32	Primary Key
Corn_gen_id	bigserial	32	
IP-Id	bigserial	32	Foriegn Key

Files:

<u>Field Name</u>	<u>Data Type</u>	<u>Size</u>	<u>Constraints</u>
File-id	bigserial	32	Primary Key
File_name	string	Max	
Base64Data	string	Max	

Step to trigger:

<u>Field Name</u>	<u>Data Type</u>	<u>Size</u>	<u>Constraints</u>
Activity_id	Bigserial	32	Foriegn Key
next_Act_id	Bigserial	32	

Transform File:

<u>Field Name</u>	<u>Data Type</u>	<u>Size</u>	<u>Constraints</u>
Tf_id	bigserial	32	Primary Key
Activity_id	bigserial	32	Foriegn Key
IPE_id	bigserial	32	Foriegn Key

3.15 Test Procedures and Implementation

Test plan

Introduction:

Test plan has following objectives:

Define the activities required for different testing.

Define the test tool and environment needed for the system
test

Scope:

This test plan covers a full system test for monitoring system which include all data entry screens.

Test strategy

Test strategy consist of different tests that will fully exercise the system.

The primary purpose of the test is to uncover system limitations and measures its full capacities.

a) Unit testing

Unit testing focuses on testing smallest unit of software design.

b) Performance testing

Performance test will be conducted to ensure that the system response time meets the user expectation and do not exceed the specified performance criteria.

c) system testing:

This testing focus on the behavior of the system. Overall it includes testing the integrated system and verify that it meets the requirement specified during design phase.

d) Environment requirement:

- windows operating system
- database PostgreSQL server
- internet explorer/Google chrome

e) Risk:

- 1) **Schedule:** the schedule for each and every phase is very aggressive and could affect testing.
- 2) **Technical:** This is a new system, in event of failure maintenance is required.
- 3) **Management:** management support is required so the project falls behind, the test schedule does not get squeezed to make for delay.

Implementation:

1. Eventually multiple users will be using application simultaneously; therefore concurrent connection will be issue for implementation.
2. We will be looking for the entry and exit condition of data will make sure all the function work without any troubles.
3. We will use table to log the entire test describe them and to record of the tests. Below are the tables :

TEST CASES

Test item - Login

Cardinality: negative

Test case name	Test case description	Input	Expected Output	Actual output	Status	Priority
Validate login	User name or password Fields are blank	Username = Password=	Focus on Username and password field and Give message Field should not be empty	Please enter user name	pass	High

Validate Login	Password Entered is wrong	Username = iquantify Password= 12345	Display message Incorrect password	Incorrect User-name or password	pass	High
----------------	---------------------------	---	------------------------------------	---------------------------------	------	------

Cardinality: positive

Test case name	Test case description	Input	Expected Output	Actual output	Status	Priority
Validate login	Enter correct user name And	Username = iquantify Password= Iquantify1	Successfully login and redirect To home	Redirect to Home page Of Appropria	pass	High

	password	23	page	te user		
--	----------	----	------	---------	--	--

Test item - Auth 2 Token

Cardinality: positive

Test case name	Test case description	Input	Expected Output	Actual output	Status	Priority
Check Auth 2 Token is granted.	Enter correct user name And password	Username = iquantify Password= Iquantify1 23	Successfully login and redirect To home page And will get Auth 2 Token	Redirect to Home page Of Appropriate user And will get Auth 2 Token	pass	High

Test item: Cron Expression Generation

Cardinality: negative

Test case name	Test case description	Input	Expected Output	Actual output	Status	Priority
Validate Cron Expression Generation	Select Invalid cron expression	Cron Exp = 12 13 1 13 *	Message will be display Invalid Cron Expression	Invalid Cron Expression	pass	High
Validate Cron Expression Generation	Filed kept Blank	Cron Exp =	Message will be Display Cron Exp Required	Message will be Display Cron Exp Required	pass	High

n						
---	--	--	--	--	--	--

Cardinality: positive

Validate	Enter	Cron	Successfully	Successfully	pass	High
Cron	Field	Exp=	Saved	Saved		
Expression	correctly	12 9		And stored		
Generation		1 12		in databse		
		*				

Test item: Step to Trigger

Cardinality: negative

Test case name	Test case description	Input	Expected Output	Actual output	Status	Priority
Validate Entered Activity Id	Enter blank Activity Id	Step to Trigger =	Message Will be Display that Please Enter Activity Id.	Message Will be Display that Please Enter Activity Id.	pass	High

Cardinality: positive

Test case name	Test case description	Input	Expected output	Actual output	Status	Priority
Validate Entered Activity Id	Enter blank Activity Id	Step to Trigger = 2	Message Won't Display.	Message Won't Display.	pass	High

Test item: Activity Execution

Cardinality: positive

Test case name	Test case description	Input	Expected Output	Actual output	Status	Priority
Activity	Click On	null	Stored in	Stored	pass	High

Exexecution	Execute		Database Message will be Success	in Database Message will be Success		
-------------	---------	--	---	---	--	--

Test item: Integration Process Execution

Cardinality: positive

Test case name	Test case description	Input	Expected Output	Actu- al output	Status	Priority
Integration Exexecution	Click On Execute	null	Stored in Database Message will be Success	Stored in Database Message will be Success	pass	High

Chapter 4

USER MANUAL

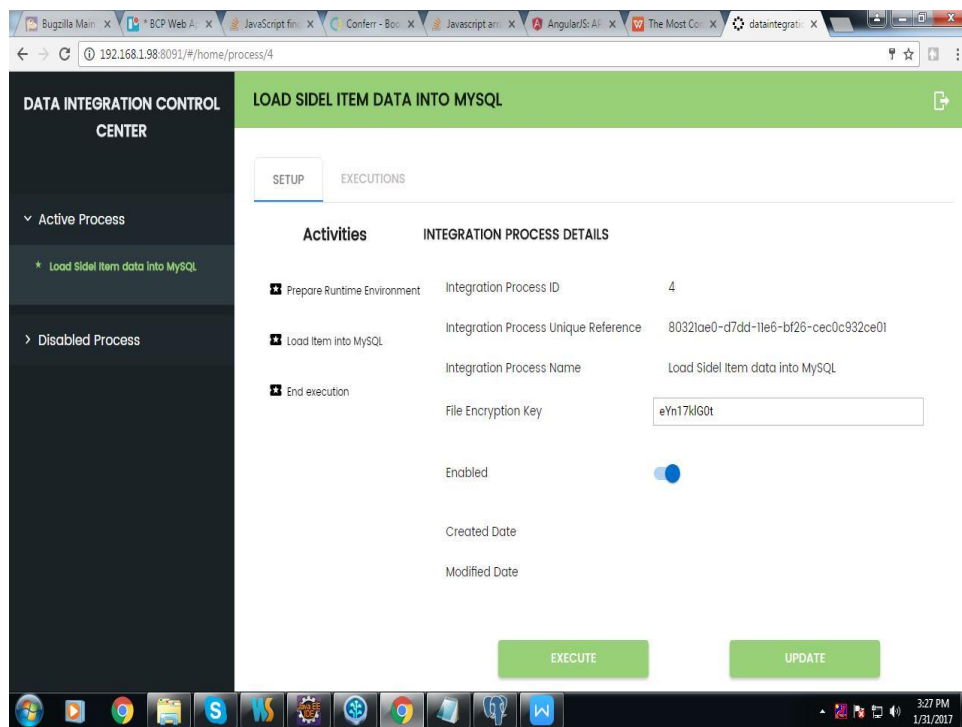
4.1 User manual

The user manual is meant to be used by all users using the system, with prior training session from the Development unit, plus he/she has to be skilful enough in operating the intended system. This manual is used for benefit of intended user to make it more clearly along with functioning of system, the processes and precautions that must be followed during working with the system. It also tells the user how to use various functionality of the site being provide according to the type of user, whenever user logs in to the system.

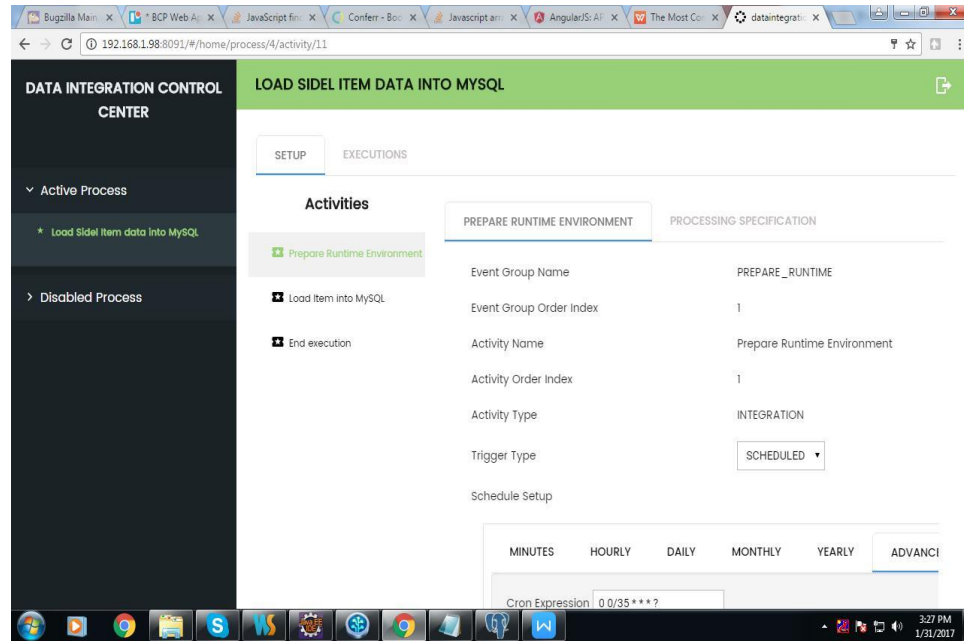
How to use this system:-

- 1)The User needs to login to the System.
- 2)Then there are 2 Categories.
- 3)One is Enabled Process and other One is disabled process.

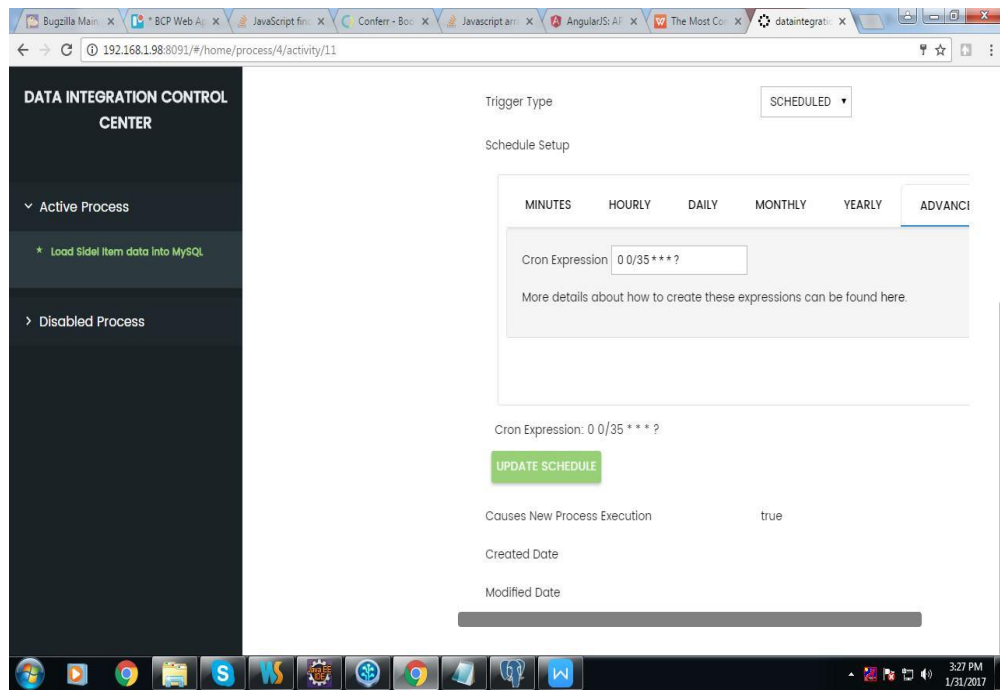
4) User needs to select that he wants to do the operations on.



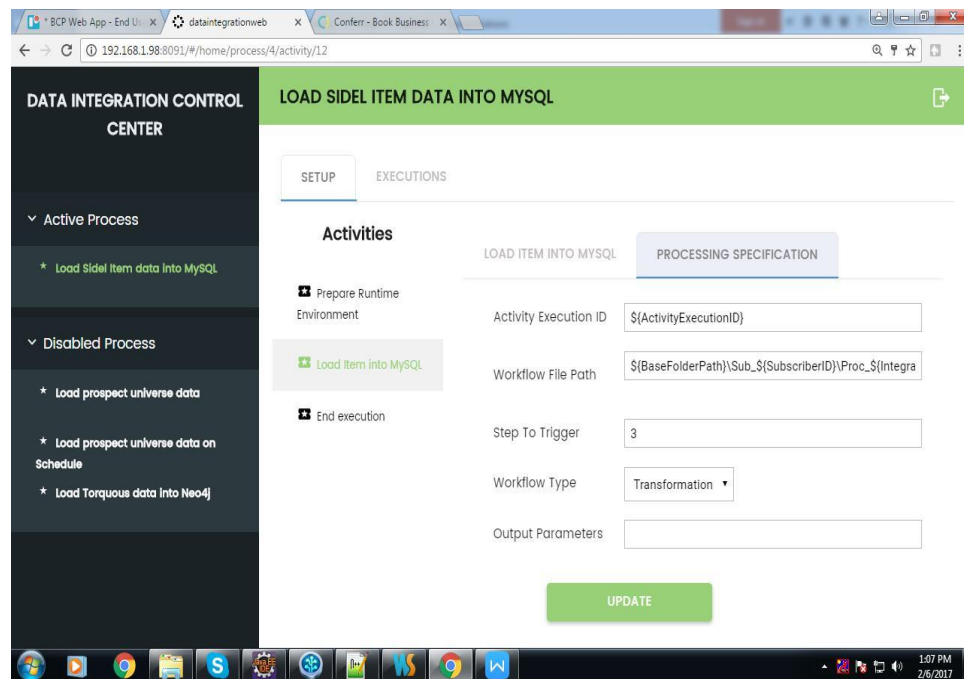
5) When User selects one of the process then the user will get the activities of that Integration process.



6)Then User needs to set the Cron Expression.



7) When User moves further to next activity then he has to give some inputs to the activity and needs to set the next activity and click on the Execute button or Update button.



8)The user can see the current execution and previous execution by clicking the Execution tab.

The screenshot shows a web browser window displaying the 'DATA INTEGRATION CONTROL CENTER' interface. The main heading is 'LOAD SIDEL ITEM DATA INTO MYSQL'. There are two tabs: 'SETUP' and 'EXECUTIONS', with 'EXECUTIONS' being the active tab. Under the 'EXECUTIONS' tab, there are two sections: 'Current Execution Detail' and 'Previous Executions Detail'. The 'Current Execution Detail' section shows 'Average Execution Time' as '1 second'. The 'Previous Executions Detail' section shows 'Last Execution Details' with the following information:

Integration Process Execution ID	861
Integration Process ID	4
Execution Start Time	06 Feb 2017 at 1:00 PM
Execution Finish Time	06 Feb 2017 at 1:00 PM
Status	COMPLETED

The left sidebar contains a list of processes under 'Active Process' and 'Disabled Process'. The 'Active Process' list includes 'Load Sidel Item data Into MySQL'. The 'Disabled Process' list includes 'Load prospect universe data', 'Load prospect universe data on Schedule', and 'Load Torquous data Into Neo4j'. The Windows taskbar at the bottom shows the time as 1:09 PM on 2/6/2017.

4.2 Operations Manual / Menu Explanation

User's Login Page:-

User enters the credential in the login page, the login page verifies the credentials, if the credentials are authorized the the login page generates the auth2token and gives the access to the system , otherwise it will allow the User to enters the credentials again.

Home Page/Integration Process :-

There can be a one or more integration processes. When a user clicks on the Integration Process, it will allow the user to either executes/updates the process or go to the activities related to the Integration Process.

Activity Execution:-

There can be a one or more Activities. When a user clicks on one of the activities then there is a Step to trigger field,by default it has next activity's number but the ser can enter the number the he/she wants

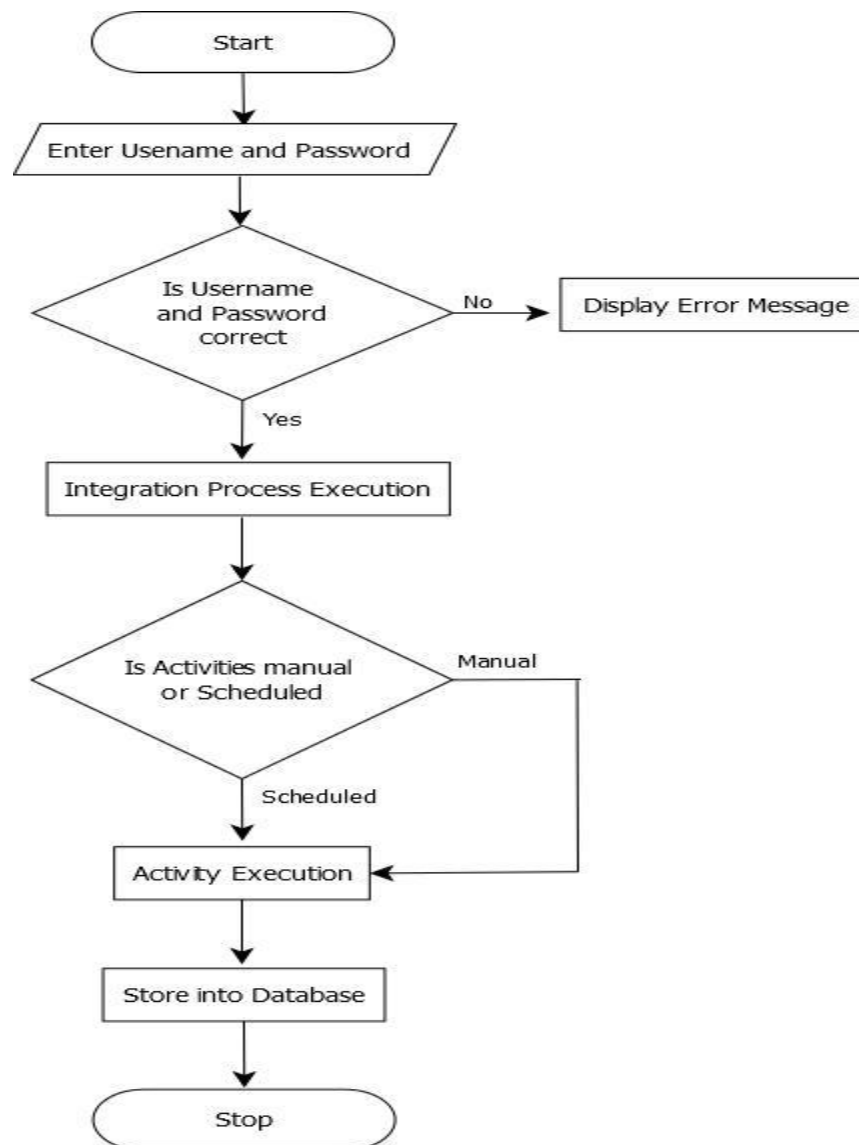
to execute an next activity , it will allow the user to execute or update an Activity.

Previous Execution And Current Execution Tab :-

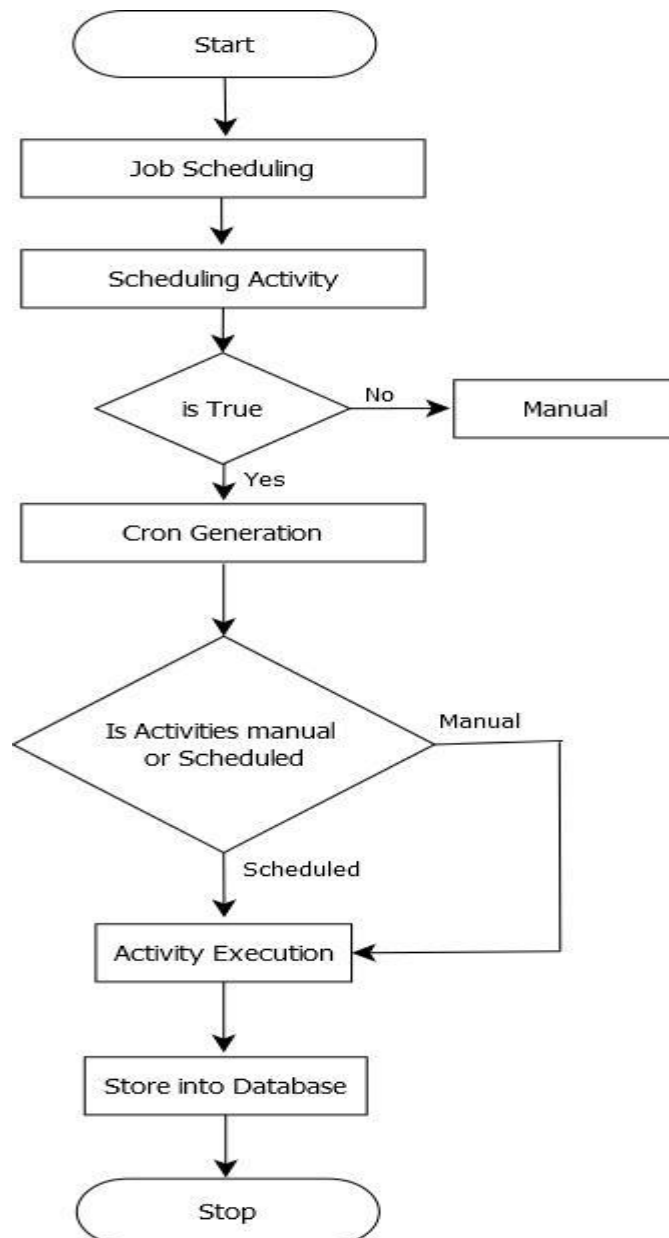
Current Execution Tab will allow the user to see , which activity of which Integration Process is executing currently and details of that activity and Previous Execution Tab will allow the User to see the previous executions and details of those activites.

4.3 Program Specification / Flow Charts

4.3.1 System's Flowchart



4.3.2 Cron-Expression Generation Flowchart



Proposed Enhancements :-

Delete function:

An Integration Process created by user should be deleted when it is no longer needed by the users or too old.

Conclusions:

The “Data Integration Control Center” is developed for the converting the raw data into information. This project is developed in AngularJS and Spring Boot. It is very user friendly.

I have got an opportunity to learn AngularJS with SpringBoot techniques and how to use the PostgreSQL-Server as backend and experience of project implementation in those particular technologies.

“Data Integration Control Center” is implemented successfully on client machine so it’s our pleasure to see that our code is going to work and reap result as expected.

The application has been tested with live data and has provided successful result.

Hence the software has proved to work efficiently.

Bibliography:-

WEBSITES

⑩ www.Angular.org

⑩ www.StackOverFlow.com

BOOKS

⑩ AngularJS, the complete
Reference By Robert standefer .

⑩ Programming PostgreSql Server
2005 By Andrew J.Brust.

ANNEXURE 1

DATA INTEGRATION CONTROL CENTER

Active Process

- Load Data from Data into Myco

Disabled Process

- Load Proposed Universe Data
- Load Proposed Universe Data on Schedule
- Load Template Data into Head

Task Name: t_Unavailable_Myco [Data_Maintenance] Integration-
Task ID: 1

Integration Process ID: 98

Execution ID: 4

Integration Process ID: 4

Source File: 8 | source\Task8

POI File Path: 2 | Unavailable_Myco\DCO_MYCO\Work\Integration-
Task\Sub_1\Proc_4\UniverseFile\prepare-runtime-
environment.kyo

Log Entries

- 2017-02-08 07:30:00.035 - executing prepare runtime
Environment

Task ID: 1

Start Time	Status	Outcome
05 Feb 2017 at 1:00 PM	✓	COMPLETED
05 Feb 2017 at 1:00 PM	✓	COMPLETED
05 Feb 2017 at 1:00 PM	✓	COMPLETED

Task ID: 1

Start Time: 05 Feb 2017 at 1:00 PM

Status: COMPLETED

DATA INTEGRATION CONTROL CENTER

- Active Process
- Disabled Process
 - load prospect universe data
 - load prospect universe data on schedule
 - load frequent data into hew4

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

SETUP EXECUTION

ACTIVITIES

INTEGRATION PROCESS DETAILS

Program Purpose Description	Integration Process ID	2
Copy the team rfp	Integration Process Name	Integration-2500-180-0422-846044801
Locate in database	Integration Process Name	Load prospect universe data on Schedule
SQL execution	File Encryption Key	Keyw@rKey
	Enabled	<input checked="" type="checkbox"/>
	Created Date	
	Modified Date	

SAVE UPDATE

DATA INTEGRATION CONTROL CENTER

- Active Process
- Disabled Process
 - Level proposed substance data
 - Level proposed substance data on schedule
 - Level Tongue data into head

Activities

SETUP

SELECTOR

REFINE RUNTIME ENVIRONMENT

PROTECTING INFORMATION

Event Group Name: Upgrade_Schedule

Event Group Order Index: 1

Activity Name: Prepare Runtime Environment

Activity Order Index: 1

Activity Type: activation

Trigger Type: SCHEDULED

Schedule Setup

MINUTES HOURLY DAILY MONTHLY YEARLY ADVANCED

Create Expression: * * * * *

More details about how to create these expressions can be found here

DATA INTEGRATION CENTER

- 3 Active Processes
- 0 Disabled Processes
- Load prospect universe data
 - Load prospect universe data on Prospects
 - Load prospect data into fact

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

SETUP

Activities

- Copy the input PTP
- Load the database
- End activities

PROCESSING SPECIFICATION

Activity Execution ID: [ActivityName]@

Step To Trigger: 3

Execution File Path: [BaseFolderPath]\Subsequent\Proc_Steps

Workflow Type: Transformer

Output Parameters: _____

REPORT



DATA INTEGRATION CONTROL CENTER

- Active Process
- Disabled Process
 - Load prospect universe data
 - Load prospect universe data on prospect
 - Load prospect data into lead

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

SETUP EXECUTIONS

Activities

Copy File From FTP Process (Name) Activity Name Input Parameters

Event Group Name	Event Group Order Index	Activity Name	Activity Order Index	Activity Type	Trigger Type	Created Date	Modified Date
Copy File	1	Copy File from FTP	1	FILETRANSFER	MANUAL		
	2		2				

DATA INTEGRATION CONTROL CENTER

- Active Process
- Disabled Process
 - Load prospect universe data
 - Load prospect universe data on schedule
 - Load response data into model

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

5/23/19 1:00:11:02PM

Activities

- RequestLogins-Encoremed
 - Load prospect universe data
- Load file in Database
- Ort execution

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

Activity (revision 0)

Workflow file path

Step to Trigger

Workflow Type

Output Parameters

Details

10.10.2.108.1:8000/WholesaleProcessActivity

DATA INTEGRATION CONTROL CENTER

- Active Process
- Disabled Process
 - Load prospect universe data
 - Load prospect universe data on schedule
 - Load Enterprise data into Hears

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

SETUP EDIT PROCESS

COMPANY: TRUCK LIFE ADDRESS: 8505711000 PHONE: 7818441199

Activities

- Import/Update Transmitter
 - Activity Execution ID:
 - Subscriber ID:
- Load file in Database
 - Integration Process Execution ID:
- Test execution
 - Integration Process ID:
 - Base Folder Path:

11:57 AM 3/8/2017

DATA INTEGRATION CONTROL CENTER

- Active Processes
- Disabled Processes
 - load prospect universe data
 - load prospect universe data on schedule
 - load target universe data (new)

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

SETUP [PERFORMANCE](#) [LOAD FILE IN DATABASE](#) [PROCESSING SPECIFICATIONS](#) [EXPORT PARAMETERS](#)

Activities

- Prepare Runtime Environment
- Copy file from FTP
- File evaluation

LOAD FILE IN DATABASE	PROCESSING SPECIFICATIONS	EXPORT PARAMETERS
Event Group Name	LOAD_FILE	
Event Group Order Index	1	
Activity Name	Load file in Database	
Activity Order Index	3	
Activity Type	ROTATION	
Trigger Type	MANUAL	
Course New Process Execution	false	
Created Date		
Modified Date		

DATA INTEGRATION CONTROL CENTER

- > Active Process
- > Disabled Process
 - Load prospect universe data
 - **Load prospect universe data on schedule**
 - Load Prospect data into Hadoop

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

1/24/2017 10:14:10 AM PROCESSING SPECIFICATION 00111111111111111111

SETUP EXECUTIONS

Activities

- Process Future Enrollment
- Copy the New FTP
 - Activity Execution ID: [ActivityExecutionId]
 - Execution File Path: [BaseFolderPath\00111111111111111111\Prospect] [Browse]
 - Step To Skip: [4]
 - Workflow Type: [Task/operation]
 - Output Parameters: []
- Get execution

UPDATE

11:58 AM 1/24/2017

DATA INTEGRATION CENTER

- Active Process
- Disabled Process
 - Lead prospect universe data
 - Lead prospect universe data on schedule
 - Lead response data into lead

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

SETUP EXECUTED

ACTIVITIES

Request External Environment

Copy the main file

File execution

REPORT PARAMETERS

Input file Name: E:\Data\Lead\Prospect_20180808\Proc_Active

Activity Execution ID: ActivityExecutionID

Subscriber ID: SubscriberID

Integration Process Execution ID: IntegrationProcessExecutionID

Integration Process ID: IntegrationProcessID

UPDATE

15:59 AM 08/08/2018

DATA INTEGRATION CONTROL CENTER

- Active Process
- Disabled Process
 - Load prospect universe data
 - Load prospect universe data on schedule
 - Load Temporal data into Hadoop

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

SETUP EXECUTION

Activities

Process Runtime Environment

- Copy file from FTP
- Insert in database

END EXECUTION PROCESSING DESCRIPTION NEXT PAGES ITEMS

Event Group Name	END_EXECUTION
Event Group: Global Index	END_EXECUTION
Activity Name	End execution
Activity Order Index	4
Activity Type	END
Trigger Type	MANUAL
Custom Item Process Execution	Active
Created Date	
Modified Date	

DATA INTEGRATION CONTROL CENTER

- > Active Process
- < Disabled Process
 - Load prospect universe data
 - Load prospect universe data on schedule
 - Load prospect data into NewQ

LOAD PROSPECT UNIVERSE DATA ON SCHEDULE

EXECUTIONS

Executions

Periodic Dataflow Detail

Periodic Dataflow Detail	Average Execution Time	Last Execution Details

1:58 PM 3/9/2017

DATA INTEGRATION CONTROL CENTER

- Active Processes
 - Load Sales Item data into MySQL
- Disabled Processes
 - Load prospect address data
 - Load prospect address data on Schedule
 - Load Tonggah data into MySQL

LOAD SIDE ITEM DATA INTO MYSQL

SETUP EXECUTIONS

Executions

Previous Iterations Detail

Average Execution Time: 3 seconds

Total Executions: Success

Integration Process Execution ID	Integration Process ID
08 Feb 2017 at 12:00 PM	415
08 Feb 2017 at 12:00 PM	4
08 Feb 2017 at 12:00 PM	08 Feb 2017 at 12:00 PM
08 Feb 2017 at 12:00 PM	08 Feb 2017 at 12:00 PM
STATUS	COMPLETED

DATA INTEGRATION CONTROL CENTER

- Active Process
 - Load sidel item data into mysql
- Disabled Process
 - Load prospect universe data
 - Load prospect universe data on schedule
 - Load response data into mysql

LOAD SIDEL ITEM DATA INTO MYSQL

EXECUTIONS

Current Execution Data

Execution ID	StartTime	EndTime	FinalTime	Status
955	08 Feb 2017 at 12:00 PM	08 Feb 2017 at 12:00 PM	08 Feb 2017 at 12:00 PM	COMPLETED
954	08 Feb 2017 at 11:35 AM	08 Feb 2017 at 11:35 AM	08 Feb 2017 at 11:35 AM	COMPLETED
953	08 Feb 2017 at 11:00 AM	08 Feb 2017 at 11:00 AM	08 Feb 2017 at 11:00 AM	COMPLETED
952	08 Feb 2017 at 10:25 AM	08 Feb 2017 at 10:25 AM	08 Feb 2017 at 10:25 AM	COMPLETED
951	08 Feb 2017 at 10:00 AM	08 Feb 2017 at 10:00 AM	08 Feb 2017 at 10:00 AM	COMPLETED

10:00 PM 2/8/2017

DATA INTEGRATION CENTER

- Active Process
 - Load Item Data into MySQL
- Disabled Process
 - Load prepared reference data
 - Load prepared reference data on Schedule
 - Load temporal data into MySQL

LOAD SIDE ITEM DATA INTO MYSQL

EXECUTIONS

Current Execution Data

Execution ID	StartTime	EndTime	FinalTime	Status	Outcome
154	08 Feb 2017 at 12:00 PM	08 Feb 2017 at 12:00 PM	08 Feb 2017 at 12:00 PM	COMPLETED	

ActivityName	ActivityType	StartTime	Status	Outcome
Prepare Runtime Environment	INITIALIZATION	08 Feb 2017 at 12:00 PM	✓	■
load item into MySQL	INITIALIZATION	08 Feb 2017 at 12:00 PM	✓	■
END EXECUTION	END	08 Feb 2017 at 12:00 PM	✓	■

Execution ID : 154 StartTime : 08 Feb 2017 at 12:00 AM FinalTime : 08 Feb 2017 at 12:00 AM Status : COMPLETED

DATA INTEGRATION CONTROL CENTER

Active Process

- Load data into data lake HDFS

Disabled Process

- Load prospect address data
- Load prospect address data on schedule
- Load response data into Hadoop

LOA

EMR0000107

Boys folder Path: E:\msuite_mysql\DOC_FRAMEWORK\Integration-

Subscriber ID: 1

Integration Process: 665

Execution ID: 4

Integration Process ID: 4

Source file: # (sourcefilesh)

PDI File Path: E:\msuite_mysql\DOC_FRAMEWORK\Integration-Data\sub_1\proc_4\initialize\prepare-runtime-environment.jp

Log Entries

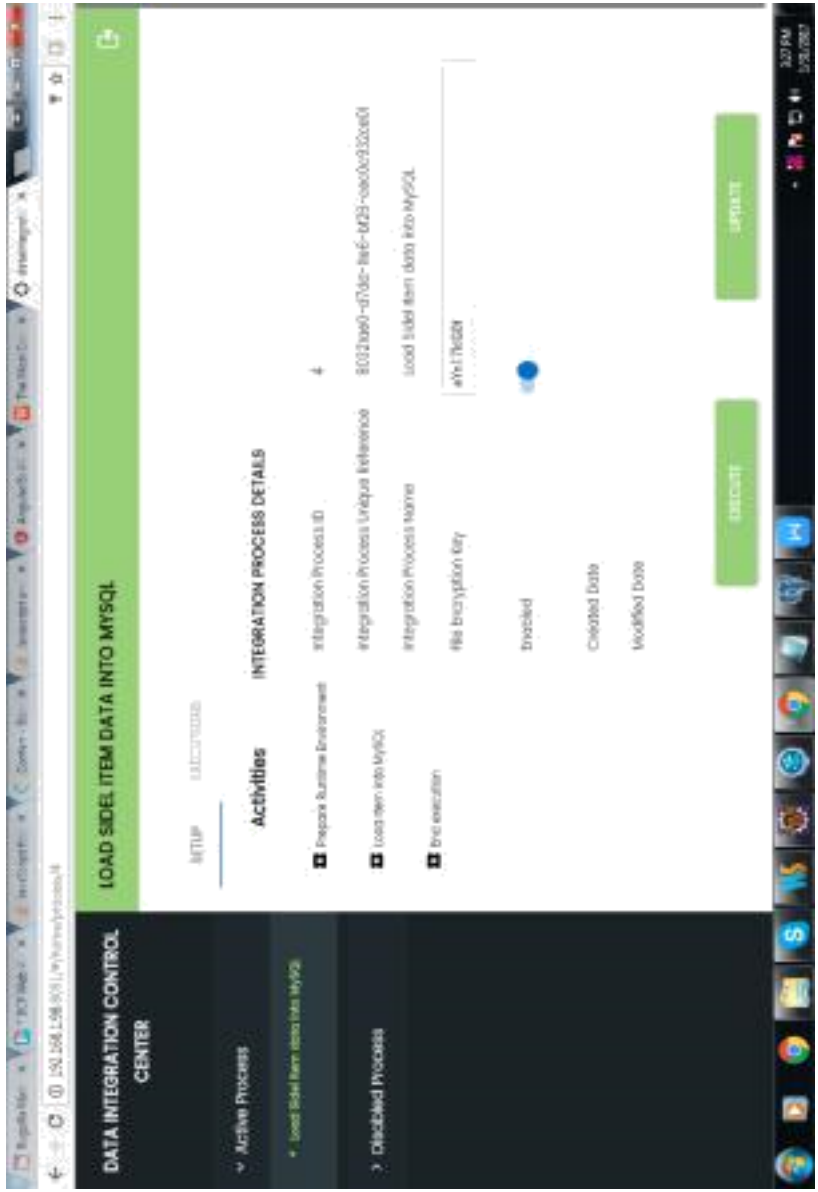
- 2017-02-08 08:30:00.033 : Executing prepare-runtime Environment

OK

Finaltime: 08 Feb 2017 at 12:05 PM COMPLETED

Starttime	Status	Outcome
08 Feb 2017 at 12:05 PM	✓	■
08 Feb 2017 at 12:05 PM	✓	■
08 Feb 2017 at 12:05 PM	✓	■

Finaltime: 08 Feb 2017 at 11:35 AM COMPLETED



103.108.1.98:8021/04/Screen/Process/Activity/11

DATA INTEGRATION CONTROL CENTER

Active Process

- Load Side Item Data into MySQL
- Disabled Process

LOAD SIDE ITEM DATA INTO MYSQL

SETUP EXECUTION

Activities

PREPARE RUNTIME ENVIRONMENT PROCESSING SPECIFICATION

Event Group Name PREPARE_RUNTIME

Event Group Order Index 1

Activity Name Prepare Runtime Environment

Activity Order Index 1

Activity Type INFORMATION

Trigger Type SCHEDULED

Schedule Setup

MINUTES HOURLY DAILY MONTHLY YEARLY ADVANCED

3:07 PM 1/6/2017

DATA INTEGRATION CENTER

- Active Process
 - Load Slow Sam data into MyDS
- Disabled Process

Trigger Type: SCHEDULED

Schedule (M/D):

MINUTES HOURLY DAILY MONTHLY YEARLY ADVANCED

Cost Expression: 0 0 25 * * * * ?

More details about how to create these expressions can be found here.

Cost Expression: 0 0 25 * * * * ?

[CREATE SCHEDULE](#)

Create New Process Execution: true

Created Date:

Modified Date:

10:27 PM 1/11/2017

DATA INTEGRATION CONTROL CENTER

LOAD SIDE ITEM DATA INTO MYSQL

Active Process

- Load Item Data into MySQL

Disabled Process

SETUP INFO HELP

Activities

- Load Item Data into MySQL
- End executor

mybatis Injured_DryExecution? PROCESSING SPECIFICATION

Activity description ID:

Step No Toggle:

Workflow File Path:

Workflow Type:

Output Parameters:

DATA INTEGRATION CONTROL CENTER

- Active Process
 - Load item data into MySQL
- Disabled Process
 - Load prospect universe data
 - Load prospect universe data on Schedule
 - Load forquote data into MySQL

LOAD SIDE ITEM DATA INTO MYSQL

LOAD ITEM INTO MYSQL PROCESSING SPECIFICATIONS SET-UP PARAMETERS

Activities

- Prepare Runtime Environment
 - Load Item into MySQL
- End execution

Event Group Name	LOAD_ITEM_DATA
Event Group Order Index	1
Activity Name	Load Item into MySQL
Activity Order Index	2
Activity Type	MITIGATION
Trigger Type	MATERIAL
Current Step Process Execution	Idle
Created Date	
Modified Date	

LOG FILE 2/16/2017

DATA INTEGRATION CONTROL CENTER

- Active Process
 - Load Side Item data into MySQL
- Disabled Process
 - Last prospect universe data
 - Last prospect universe data on Schedule
 - Last Torqous data into Head

LOAD SIDE ITEM INTO MYSQL

SETUP EXECUTIONS

Activities

- Propose Runtime Environment
 - Load Side Item into MySQL
- End execution

LOAD SIDE ITEM INTO MYSQL

Activity Execution ID: \$(Activity.ExecutionID)

Workflow File Path: \$(BaseFolderPath)\Job_\$(SubelementID)\Proc_\$(Intags)

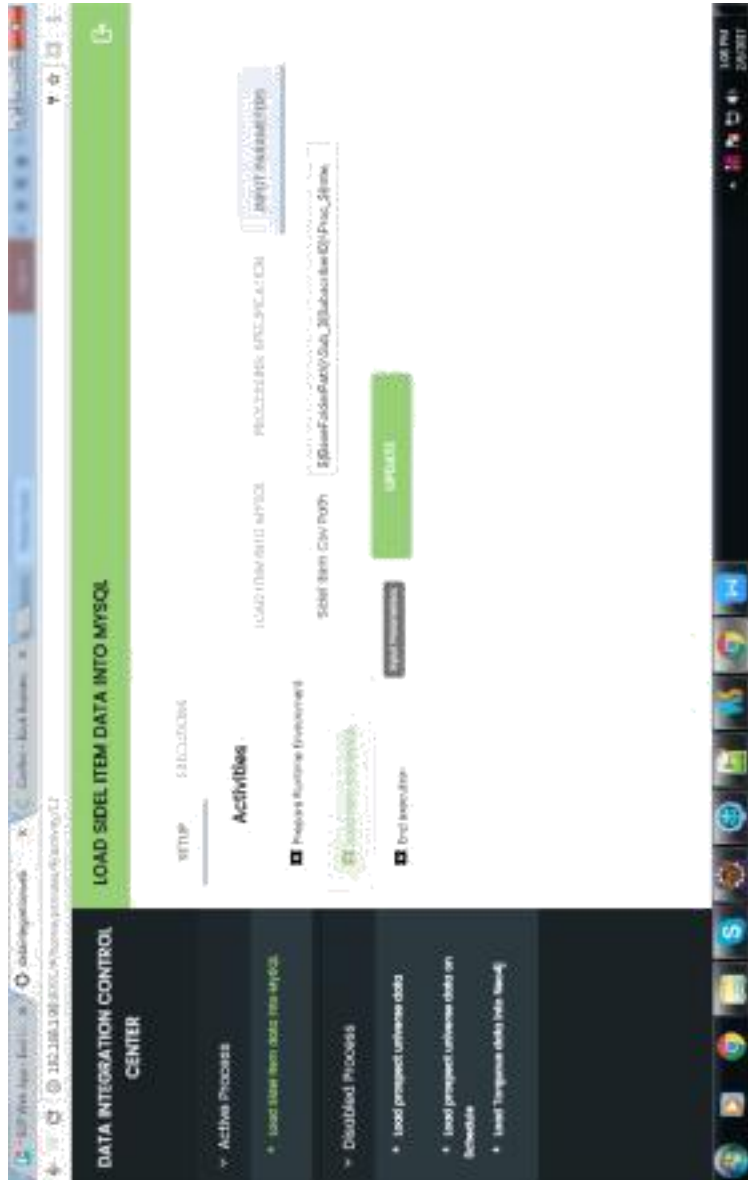
Step To Log: 2

Workflow type: Transformation

Output Parameters

UPDATE

1:07 PM 2/2/2017



DATA INTEGRATION CONTROL CENTER

LOAD SIDE ITEM DATA INTO MYSQL

STATUS: EXECUTING

Executions

Process Executions Detail

Integration Process Execution ID	Integration Process ID	Execution Start Time	Execution Finish Time	Status
89	4	08 Feb 2023 05:10:00 PM	08 Feb 2023 05:10:03 PM	COMPLETED

Integration Process Execution Error: 1 second

Last Tracked: Details

Active Process

- Load item item data into mysql

Disabled Process

- Load prospect reference data
- Load prospect reference data on schedule
- Load response data into mysql

DATA INTEGRATION CENTER

LOAD SIDE ITEM DATA INTO MYSQL

Executions

Current Execution: None

Execution ID	Start Time	Activity Type	Start Time	Status	Outcome
881	05 Feb 2017 at 1:00 PM	PREPARATION	05 Feb 2017 at 1:00 PM	✓	COMPLETED
1000 Item into MySQL		LOAD	05 Feb 2017 at 1:00 PM	✓	
End execution		END	05 Feb 2017 at 1:00 PM	✓	

Execution ID: 880
Start Time: 05 Feb 2017 at 12:35 PM
End Time: 05 Feb 2017 at 12:35 PM
Status: COMPLETED

Active Process

- Load Side Item into MySQL

Disabled Process

- Load prepared archive data
- Load prepared archive data on Schedule
- Load Ingested data into MySQL

DATA INTEGRATION CENTER

Active Processes

- Load Data from data into Myco

Disabled Processes

- Load prepared universe data
- Load prepared universe data in schedule
- Load prepared data into fact

LOA

Base folder path: E:\vivafile_mysqa\pcc\pcc_Multitrotes\Integration-Item

Subscriptive ID: 1

Integration Process ID: 001

Integration Process ID: 4

Source file: S | sourcefactsh

POC file Path: E:\vivafile_mysqa\pcc\pcc_Multitrotes\Integration-Item\Sub_1\Proc_4\Items\sourcefactsh\prepare-universe-environment.kjb

Log Entries

- 2017-02-08 03:30:05.035 : executing prepare runtime Environment

TaskTime: 08 Feb 2017
at 1:07 PM

COMPLETED

StartTime	Status	Outcome
05 Feb 2017 at 1:00 PM	✓	2
05 Feb 2017 at 1:00 PM	✓	2
05 Feb 2017 at 1:00 PM	✓	2

TaskTime: 06 Feb 2017
at 12:35 PM

COMPLETED

ANNEXURE 2

Subscriber:-

Subscriber_ID	Client_ID	Client_Secret	Created_Date	Login	Modified_Date	Password	Sub_Scriber_Name	Subscriber_Unique_Key
1	1734281402	646a78-301	15/11/2016	ipathy		ipathy123	ZEsak	90792644c29
2	2344281456	246a78-302	16/11/2016	ipathy	03/02/2017	ipathy123	TennJink	60792644c29
3	2344281402	246a78-303	20/12/2016	ipathy	03/02/2017	ipathy123	SEN	60792644c29
4	3064281456	546a78-306	25/12/2016	ipathy	03/02/2017	ipathy123	SEN	90792644c29
5	2344281405	446a78-336	20/11/2017	karada	03/02/2017	ipathy123	Karada	90792644c29
6	5402894437	9464078-303	16/12/2017	haja	03/02/2017	ipathy123	Haja	30792644c29

Integration Process:-

Integration Process ID	Created Date	Enabled	File Template Key	Integration Process Name	Integration Process Description	Start Date	Sequence ID	Integration Process Execution	Status
1	2016/07/6	Yes	Load Project Summary Data	Load651-Table	Load651-Table	15/09/2011	1	1	Success
2	2016/07/6	Yes	Load Project Summary Data on Site	Load651-Table	Load651-Table	15/09/2011	1	2	Success
3	2016/07/7	Yes	Load Project Summary Data on Site	Load651-SQL	Load651-SQL	15/09/2011	1	3	Success
4	2016/07/7	Yes	Load Project Summary Data on Site	Load651-Sql	Load651-Sql	15/09/2011	1	4	Success

Integration Process Execution:-

IntegrationProcess_Executio nID	Execution_FinishTime	Execution_StartTime	Integration_Process_ID	Status
1	1149333576603	1049333576236	1	Success
2	2449123576879	2549123576879	2	Success
3	1659333576887	12149123576825	3	Success
4	9659333576887	65849123576825	4	Success

Event Queue:-

EventQueue_ID	Created_Date	Event_Specification	IntegrationProcess_ExecutionID	Integration_Process_ID	Modified_Date	Status	Subscriber_ID
1	26/12/2016	00_03d\Toques universe Data rto need)	3	3	15/06/2017	Running	1
2	04/11/2017	00_03d\Toques universe Data	4	4	15/06/2017	Running	1
3	12/11/2017	00_03d\Toques universe Data rto need)	3	3	15/06/2017	Executed	1

Activity Execution:-

ActivityExecution_ID	ExecutionFinishTime	ExecutionStartTime	ExecutionStep/Output #	Status	Activity_ID	IntegrationProcess_ExecutionID
1	19-03-2024	19-03-2024		Wrong	1	1
2	19-03-2023	19-03-2024		Wrong	2	2
3	19-03-2025	19-03-2023		Wrong	3	2
4	19-03-2023	19-03-2024	Success	Done	4	2

Activity:-

Activity_ID	Activity_name	Created_Date	Modified_Date	Step_No	Trigger	Integration_Process_ID	GroupID	Status
1	Prepare Runtime Environment	23/02/15	15/02/17	2	1	1	10511117	Running
2	Copy File from FTP	21/02/15	15/02/17	3	1	1	0401211111	Running
3	Load in Data Base	04/02/17	15/02/17	4	1	1	0401211111	Running
4	EndExecution	15/02/17	15/02/17		1	1	0401211111	Done

Subscriber Monthly Report:-

input:Timestamp:-1510721869000

Subscriber ID	Client ID	Client Secret	Created Date	Login	Validated Date	Payment	Subscriber Name	Subscriber Group Key
1	173421482	e4e463431	8/11/2016	ready		quantity(2)	1 Bank	5070284453
2	200021545	2e6e73312	8/11/2016	waiting	20102207	quantity(2)	1 Bank	4070284453

Integration Process Monthly Report:-

input:Timestamp:1514005408000

Integration Process ID	Created Date	Enabled	File Location	Integration Process Name	Integration Process ID	Integration Process Name	Method Name	Subscriber ID	Integration Process ID	Status
1	201706	Yes	LocalServer\Program Files	BankShare	BankShare	BankShare	ECOM	1	1	Success
2	201707	Yes	LocalServer\Program Files	ShareShare	ShareShare	ShareShare	ECOM	1	2	Success

Event Queue Monthly Report:-

input:Timestamp:-1510721869000

EventQueue ID	Created Date	Event Description	Regular Fixure Location	Regular Process Location	Mobile No	Start	Subscriber ID
1	2017-11-15 10:31:09	Regular Fixure	3	1	9890012345	10:31:09	1

Activity Monthly Report:-

Activity ID	Activity Name	Created Date	Modified Date	Step Id (Type)	Integration Process ID	Cooper	Status
1	Formal Review	25/02/2016	15/03/2017	2	1	0.3511111	Running
2	Open Feedback FTP	27/02/2016	15/03/2017	3	1	0.01127142857	Running

ANNEXURE 3

```

/**
 * @author Akshay Misal
 * @name dataintegrationweb.ActivityController
 * @description controller for Process details
Activity
 */
(function() {
    'use strict';
    angular
        .module('dataintegrationweb')
        .controller('ActivityController',
        ['$scope', 'SubscriberService', '$state', '$http',
        'ApplicationStorage', 'ENDPOINTS', 'UtilService',
        ActivityController]);

function ActivityController($scope, SubscriberService,
$state, $http, ApplicationStorage, ENDPOINTS,
UtilService) {
    $scope.causesNewProcessExecutionValue = true;
    $scope.formdata = {};
    $scope.NavigationMenu = {};
    $scope.NavigationMenu =
    ApplicationStorage.getValue("NavigationMenu");
    $scope.activity = {};
    $scope.currentState = $state.current.name;
    $scope.flag3 = false;
    $scope.convertNormalCaseFromCamelCase=
    UtilService.convertNormalCaseFromCamelCase;
    $scope.triggerTypeList = ["MANUAL", "SCHEDULED"];
    $scope.workflowTypeList = ["Transformation",
    "Job"];
    $scope.selectedWorkFlowType = "";
    $scope.selectedTriggerType = "";
    $scope.changeTriggerType = changeTriggerType;
    $scope.changeWorkFlowType =
    changeWorkFlowType;
    $scope.initTriggerType = initTriggerType;
    $scope.initWorkFlowType = initWorkFlowType;
    $scope.getCron = getCron;
    $scope.reschedule = reschedule;
    $scope.iscausesNewProcessExecution=
    iscausesNewProcessExecution;
    $scope.clearFields = clearFields;
}

```



```

$scope.getInitialValue = getInitialValue;

function getInitialValue(value) {
    var jsonvalue = JSON.parse(value);
    $scope.formdata.scheduleSetup =
    jsonvalue.cronExpression;
}

function iscausesNewProcessExecution(value) {
console.log("causesNewProcessExecutionValue :: "
+ value);
    $scope.causesNewProcessExecutionValue
    = value;
}

init();

function clearFields() {
    $scope.formdata.errorMessage = "";
    $scope.formdata.successMessage = "";
}

function init() {

    var noOfProcess =
Object.keys($scope.NavigationMenu.integrationProc
esses).length;
for (var j = 0; j < noOfProcess; j++) {
    var size =
Object.keys($scope.NavigationMenu.integrationProc
esses[j].activities).length;

for(var i = 0; i < size; i++) {

var integrationProcessName =
$scope.NavigationMenu.integrationProcesses[j].int
egrationProcessName;
var activityName =
$scope.NavigationMenu.integrationProcesses[j].act
ivities[i].activityName;

```

```

$scope.stateName      =      "homepageState."      +
getStateName(integrationProcessName) + "." +
getStateName(activityName)
if ($scope.stateName == $scope.currentState) {
$scope.activity      =
$scope.NavigationMenu.integrationProcesses[j].act
ivities[i];
$scope.tabname      =
$scope.NavigationMenu.integrationProcesses[j].act
ivities[i].activityName;
var      str      =
$scope.NavigationMenu.integrationProcesses[j].act
ivities[i].processingSpecification;
$scope.processingspec = angular.fromJson(str)
if($scope.processingspec.hasOwnProperty('Activity
ExecutionID')) {
$scope.flag3 = true
}
$scope.inputparameter =
$scope.processingspec.inputParameters;

$scope.integrationProcess =
$scope.NavigationMenu.integrationProcesses[j]; }

}
}
}

function getCron(value){
if (value == null) return null;
return angular.fromJson(value).cronExpression;
}

function reschedule(activityID){
var bodyJSON = {"cronExpression" :
$scope.formdata.scheduleSetup };
console.log("activityID : " + activityID + ",
scheduleSetup : " + $scope.formdata.scheduleSetup
+ ", bodyJSON : " +bodyJSON);

//Write code To reschedule process
var      promise      =
SubscriberService.updateActivityByActivityID(ENDP
OINTS, activityID, bodyJSON);

```

```

promise.then(function (promise) {
  if (promise.status == 200) {
    var responseData = promise.data;
    $scope.formData.successMessage = "Activity
    successfully updated";
    console.log("Activity successfully updated : " +
    responseData);

  }
  else if (promise.status == 400) {
    $scope.formData.errorMessage = "Error : Enter
    correct expression..";
    console.log(promise.status + " : Bad request");
  }
  else if (promise.status == 401) {
    console.log(promise.status + " : User is
    undefined... Unauthorized access");
    redirectToLogin();
  }
  else if (promise.status == 404) {
    $scope.formData.errorMessage = "Error : Activity
    can not updated.";

    console.log(promise.status + " : Not found");
  }
  else if (promise.status == 500) {
    $scope.formData.errorMessage = "Error : Activity
    can not updated.";

    console.log(promise.status + " : Internal server
    error");
  }
});
}

function getStateName(stateName) {
  stateName = stateName.toLowerCase()
  .replace(/\b[a-z]/g, function (letter)
  { return letter.toUpperCase(); });
  stateName = stateName.charAt(0).toLowerCase() +
  stateName.substr(1);
  stateName = stateName.replace(/ /g, "_");
  return stateName;
}

```

```
function initTriggerType(value){
$scope.selectedTriggerType = value;
}

function          changeTriggerType(selectedTriggerType)
{
```

```
    $scope.selectedTriggerType =
selectedTriggerType; }
function changeWorkFlowType(selectedWorkFlowType) {
$scope.selectedWorkFlowType = selectedWorkFlowType;
}
function initWorkFlowType(value){
$scope.selectedWorkFlowType = value;
}
}
}) ();
```