

A project report on

Cognitive Cultural Economy Based Platforms with Gateways

Submitted in partial fulfillment of the requirement
For the award of the degree

MASTER OF COMPUTER APPLICATIONS
Of



Visvesvaraya Technological University
Belgaum, Karnataka

By

SUNIL KUMAR K S

1CY18MCA67



CMR INSTITUTE OF TECHNOLOGY
132, IT Park Road, Kundalahalli, Bangalore-560037
2019-2020

A project report on

Cognitive Cultural Economy Based Platform with Gateways

Submitted in partial fulfillment of the requirement
For the award of the degree

MASTER OF COMPUTER APPLICATIONS
Of



Visvesvaraya Technological University
Belgaum, Karnataka

By

SUNIL KUMAR K S
1CY18MCA67



CMR INSTITUTE OF TECHNOLOGY
132, IT Park Road, Kundalahalli, Bangalore-560037
2019-2020

A project report on

Cognitive Cultural Economy Based Platform With Gateways

Submitted in partial fulfilment of the requirement

for the award of the degree

MASTER OF COMPUTER APPLICATIONS

of

Visvesvaraya Technological University

Belgaum, Karnataka

By

Sunil Kumar K S

1CY18MCA67

Under the guidance of

Internal Guide

Ms. Ashwini Patil

Assistant professor

MCA Department

CMR Institute Of Technology

Bangalore

External Guide

Mr. Abhishek

Technical Manager,

Meta TechsysPvt Ltd

Bangalore



CMR INSTITUTE OF TECHNOLOGY

132, IT Park Road, Kundalahalli, Bangalore-560037

2019-2020

CMR INSTITUTE OF TECHNOLOGY
Department of Master of Computer Applications
Bangalore - 560037



CERTIFICATE

This is to certify that the project work entitled

Cognitive Cultural Economy Based Platform With Gateways

*Submitted in partial fulfilment of the requirement for
the award of the degree of Master of Computer Applications of
the Visvesvaraya Technological University, Belgaum,
Karnataka is a result of the bonafide work carried out by*

SUNIL KUMAR K S
1CY18MCA67

during the academic year 2019-2020.

Signature of the Guide
Ms. Ashwini Patil
Assistant Professor, MCA

Signature of the HOD
Ms. Gomathi.T
HOD, MCA

Signature of the Principal
Dr. Sanjay Jain
PRINCIPAL, CMRIT

External Viva

Name of the Examiners

Signature with date

- 1.
- 2.

DECLARATION

I, **Sunil Kumar K S**, Student of 6th MCA,CMR Institute of Technology, Bearing USN **1CY18MCA67** hereby declare that the project entitled “**Cognitive cultural economy based platform with gateways**” has been carried out by me under the supervision of External guide **Mr. Abhishek** Technical Manager at Meta Techsys Pvt Ltd and under the guidance of internal guide **Ms. Ashwini Patil, Assistant Professor DEpartment of Master of Computer Applications**, CMR INSTITUTE OF TECHNOLOGY, and this Project Work is submitted in the partial fulfillment of the requirements for the award of the degree of Master of Computer Applications by the **Visvesvaraya Technological University** during the academic year 2019-2020. The reports has not been submitted to any other University or Institute for the award of any degree or certificate

Place: Bangalore

Date:

Sunil Kumar K S

(1CY18MCA67)

ACKNOWLEDGEMENT

I would like thank to all those who are involved in this endeavour for their kind cooperation for its successful completion. At the outset, I wish to express my sincere gratitude to all those people who have helped me to complete this project in an efficient manner.

I offer my special thanks to my external project guide Mr. Abhishek, Technical Manager, Meta Techsys Pvt Ltd, Bangalore, and to my Internal Project guide Ms. Ashwini Patil, Department of MCA, CMRIT, Bangalore without whose help and support throughout this Internship would not have been this success.

I am thankful to Dr. SANJAY JAIN, Principal, CMRIT, and Bangalore for his kind support in all respect during my study. I would like to thank Mr. Abhishek, Technical Manager, Meta Techsys Pvt. Ltd, Bangalore who gave opportunity to do this Internship at an extreme organization Most of all and more than ever, I would like to thanks my family members for their warmness, support, encouragement, kindness and patience. I am really thankful to all my friends who always advised and motivated me throughout the course.

SUNIL KUMAR K S
(1CY18MCA67)



CERTIFICATE

This is to certify that the project titled "Cognitive cultural economy based platform with gateways" is submitted to Metatechsys in fulfillment of the requirement for the final semester degree of MCA from CMR INSTITUTE OF TECHNOLOGY, Bangalore.

The project is a bona fide record at work carried out by Mr. Sunil Kumar KS (1CY18MCA67) under the supervision and guidance of Mr. Abhishek (Technical Manager) Metatechsys, Bangalore between the periods from 23/12/2019 to 27/5/2020.

The source code of the Project is not issued to the trainee as per the policy of the company. Screen print for the application is provided in limited no's.

Best regards,

A handwritten signature in blue ink, appearing to read 'Abhishek', written over a faint circular stamp.

META TECHSYS
92A, 7th Cross,
Mr. Abhishek Domlur Layout,
Technical Manager Bangalore-560 071
(For Meta Techsys)

No 92 A, 7th Cross,
Domlur Layout,
Bangalore 560071
Email: info@metadatatechsys.com,
Contact- +917204404772,
Web: www.metadatatechsys.com

S.NO.	CONTENTS	Page No.
1	INTRODUCTION	1
	1.1 PROJECT DESCRIPTION	1
	1.2 COMPANY PROFILE	2
2	LITERATURE SURVEY	6
	2.1 EXISTING AND PROPOSED SYSTEM	6
	2.2 FEASIBILITY STUDY	8
	2.3 HARDWARE AND SOFTWARE REQUIREMENTS	9
	2.4 TOOLS AND TECHNOLOGIES	10
3	SOFTWARE REQUIREMENTS SPECIFICATION	14
	3.1 FUNCTIONAL REQUIREMENTS	15
	3.2 NON-FUNCTIONAL REQUIREMENTS	17
4	SYSTEM DESIGN	20
	4.1 SYSTEM PERSPECTIVE	20
	4.2 CONTEXT DIAGRAM	21
5	DETAILED DESIGN	22
	5.1 USE CASE DIAGRAM	22
	5.2 CLASS DIAGRAM	23
	5.3 SEQUENCE DIAGRAM	29
	5.4 ACTIVE DIAGRAM	24
	5.5 ER-DIAGRAM	26
6	IMPLEMENTATION	29
	6.1 SCREEN SHOTS	31
	6.2 SAMPLE CODE	38
7	SOFTWARE TESTING	42
8	CONCLUSION	45
9	FUTURE ENHANCEMENTS	46
10	APPENDIX A BIBLIOGRAPHY	47
11	APPENDIX B USER MANUAL	48

CHAPTER 1

INTRODUCTION

1.1 PROJECT DESCRIPTION

Expertise collaboration for the technological work with global perceptions of inbuilt identities is provided through the service that is been designed. The references of the service will be elaborated so different types of working do mean organizations can be targeted. The service platform that is been designed is suitable for different references where is a corporate organizations and the individual users can also login to gain the benefits. The system includes a multi task professional workability platform which will be used substantially for the technological working and work projections. All types of work projections can be distributed on the platform so that different identities can have a differential bid for the work.

All the references that are included will be sustainable and will be acknowledged in a formation that the considerations can be optimized and centralized through all requirements proposed provided. The system includes all types of design formations that have required undertaking projection work and the real time workability based on different types of Technologies. Requirement for the technological variation is different from one organization to another and even the system will be utilized in different formations of workability from different locations so it is be incorporated with the when the services so that the users can get the type of resources they require directly from the vendor side. The vendors can be selected according to the choice of the users and even the preference setups can be originated or we can say that the system provides the resources in such a way that users will be having the reference of selecting them and using it.

The considerations are also provided in such a way that from the platform itself the accessibility can be formed. Accessibility is provided from the platform itself it is much more flexible for the integrated used to perform the activities as each reference of getting acknowledgement of the work can also be formed from the system so it can be used in multiple layers so as soon as particular project is being a time the same platform can be defined for working also. The incorporated collaboration which is required to perform Global task and workability is also associated within the system and it can establish with the help of different types of regulations that will be set by the related administrator or by the related single user.

The references are provided in such a way that even the standards for the Representation of the work can be achieved because if any company wants to represent the work they require it can be done with the help of different types of channel in pages where the inputs are already structured and the users are required to provide the information. Substantial check for the user in corporation can also be done in real time so that the company can select with whom the collaboration has to be achieved.

All types of working references that are required to be acknowledged is also provide so if a particular account wants more Sab uses he had perform the activities it can be also done as the system is based on workability for bigger projects also. Multiple types of hierarchies can be design and different types of working consideration scan selected this will help to associate frock type of activity associations. Various types of commercial activity based on working are also supported so for example of any type of gateway has to be associated it can be also done.

Processes that will be undertaken is on the virtual format so various types of incorporated deals and discussions and presentations of the work can be performed with the help of system and this will also from multiple client integrated working so one account can provide the professional work service to different types of organizations worldwide and for which different types of virtual space can be design so that up of a collaboration can be achieved with the related clients.



Figure 1 Cycle of work associations are shown in the above diagram

All types of associations that are required is provided which will include different types of keyboard processing so that if required manually to search profiles of the other provisional users either for the Sourcing or either for request working it will be supported as each and every account holder is required to make profile with all types of working consideration they are looking for. Platform usages also supported multiple spaces that can be design which can be incorporated with different types of workability and for each page the designed working establishment can be achieved. Multiple types of customization is also supported which is very helpful as different types of working considerations are required to be acknowledged.

1.2 COMPANY PROFILE

Meta Techsys



Numerous product arrangement and administrations are given to help keep up the intricate capacity plan and counseling in different points of view for the related customers. To give an engaged Win-Win arrangement the organization is into numerous sort of scientific recognition comprehension and announcing where appropriate raging plans are required to be intended for undertaking various kinds of business thought. Various affiliation based devices for dealing with an appropriate usefulness is likewise hand crafted so the customers will satisfy the necessary working imminent.

We structure and offer the types of assistance to respect the related client desire with serious prerequisite investigation and plan. Kinds of business discernment are embraced with the assistance of skill group which will chip away at a customized work organizing for the customers. Multi-level customer server arrangement or the related statistical surveying the organization is productive for the specific prerequisite accuracy with more savvy execution affiliation and structure.



- Different innovative work for understanding the work necessities
- Worldwide customer working observations
- Expounded solid work group in various aptitude
- Different reviewing regarding consumer loyalty
- We offer the going with organizations:
- Testing, usability testing for application and locales
- SMS organization applications
- Market research and analytics
- Complex Internet-based courses of action,
- Online business applications,
- Work area programming

CHAPTER 2

LITRATURE SURVEY

2.1 EXISTING AND PROPOSED SYSTEM

2.1.1 Existing system

In the existing system we found that there is no proper approach for the business related engagement which is needed in global scenario to have more understandable workability for the complicated project. There is no mechanism where the individual references can be highlight and can be engaged with bigger clients to get the type of working perception required according to the expertise. In the existing system even the organizations are facing lots of problems for the new technological workability that has to be achieved as they require the training to be provided for the task undertaken.

Some of the important substantial problems that are being established by understanding the existing scenario workability are listed as following-

- In the existing system there is no means of collaboration based on scenario engagements as all business communities are working individually for their project process and task
- In the existing system even various types of variations are not supported or we can say that there is more centralized reference available where the engagements and the related workability is supported from one place
- In the existing system we also found that global representation of expert is not possible so different expertise workforce is not getting the type of work association they required on a global scenario which is not good in overall understanding of technological working
- The companies are also facing the problem of distributed engagements which are needed to accomplish the work faster with the help of distribution show the companies are required through undertake the expertise by themselves which requires more training, time investment and money investment
- When the ventures are required to be provided with different variations of resources again the organizations have to arrange those resources from themselves making it too complicated as for each perception a different tool is required for the work handling will be quite complicated
- The references of real-time collaboration conditions and workability is also not supported in the existing system specially in a global scenario formation

- We also found that the financial setups that are required to be acknowledged for example the Gateway integrations is also not supported in the existing system so again the clients are required to manage the Gateway by themselves
- The custom provisions that have required is also quite difficult in the existing work scenario to be maintained as each aspect of the communication and project working is organized individually with the help of predefined resources which cannot be customized

Data integrity problems are also acknowledged and even the collaborated working problems are been acknowledged by the clients when they are undertaking any type of technological working

2.1.2 Proposed system

The proposed system is well equipped with custom options which will enhance the individual representations that are required on a global scenario and even will provide the bigger organization to assist their work requirements to other business community. Multiple types of provisions are acknowledged and are listed in such a way that all types of problems that are faced in the existing system can be eliminated. The propose system provides various types of working resources which are very much informed and undertaken the technological variation base working. Some of the important perception that is included in the proposed system is listed as following-

- The propose system provides a way of collaboration on a global business communication with different types of engagement features that are included
- All types of workability support is provided where according to the requirement the system can be utilized with multifold activities and process.
- In the proposed system the type of expertise can have the Global representation with detailed profile so that direct engagements with bigger business communities can be achieved Multiple collaborations in terms of the working project can also be organized at the same time from one account
- The bigger companies can also utilize the system for distributed engagement where the working requirements can be directly circulated and can be provided to individual identities for other distance community based on the preferences of expertise
- All types of venture related resources are included in the platforms so whenever a related venture is required to be accomplished the same platform can be utilized for the resource incorporation also and it can be directly utilized
- Workability collaboration in real-time is supported in the proposed system so that all the teams and business communities can utilize it for the real-time references when the technological project undertaken

- Various types of acknowledgement based on financial workability is also supported so for example if the platform is required to be utilized for any type of financial transfer the gateways are provided which can be selected configured and used
- The customization that is needed to undertake the required modeling of the system is associated source each identity associated with the platform can customize the working requirement
- All types of data integrity is supported which is very much helpful for the security aspect and for the centralized working.

2.2 Feasibility study

Feasibility understanding is required before the system is being actually designed and implemented so that we can have the differences of the requirements properly, different types of categories will be discussed as we want that detailed reference should be promoted so we will be acknowledging the type of financial requirements how the system will be operated in real time and what all technological factors will be associated.

- Technical feasibility
- Operational feasibility
- Economic feasibility

Technical feasibility

Technical considerations that are required for the modeling of the system will be taken as it will be used for the references of Identity and for outsourcing of related technological working so the preferences settings will be checked for the compatibility

The technological references that are required based on service will be all subject as the users are required to be provided with a real-time virtual platform which will be associated for different types of activities and processes

Technical perceptions that are associated in terms of the resource incorporation as we know that system will be utilized for different types of technological working and requires integrated support based on different types of tools so we have to acknowledge categories of tools that will be associated and will be checked for integrated working

The designing of different aspects of workability based on the client constellations with the help of customization will be also checked and undertaken

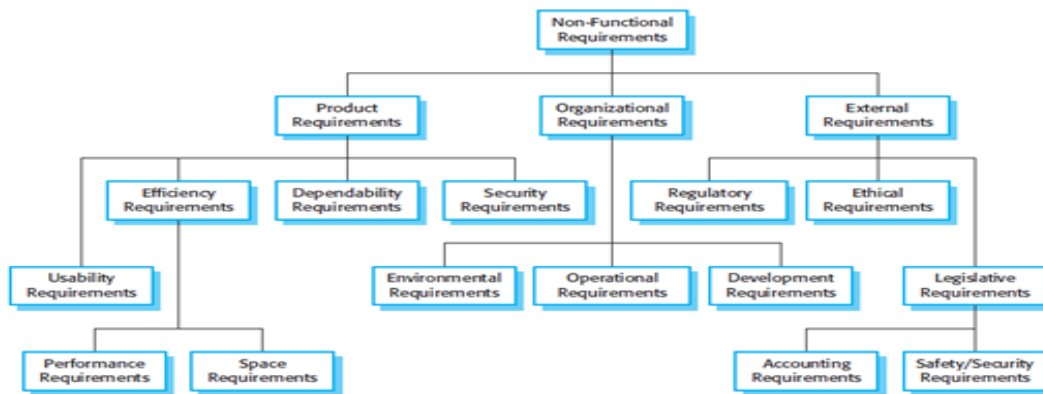


Figure 2- multiple sections of non-functional

Operational feasibility

Operational feasibility is based on the maintainability in the real time, different types of references that are included within the system it will be checked as users should understand that how to utilize various features so for which detailed representation of the workability will be provided in the form of documentation

In house training will be also conducted so that users will be having more working acknowledgement when we having tie-ups with corporate companies

The escalation that may arise in the future will be also discussed and the proper solution will be drafted

Economic feasibility

Economic considerations are important as we have to acknowledge the type of investment we required to support the design and limitation of the system and this will be done with the help of a financial department and for our project funding will be provided by the board of directors

The return on investment will be calculation with the help of protective software's and this will be done by the financial department

2.3 HARDWARE AND SOFTWARE REQUIREMENTS

Software requirements

Databases : MySQL 8.0.13
Technology : Hybrid cloud (implementation)
Platform : Windows
Languages : JAVA (J2EE, JavaScript, JSP)
Integrated development environment : NetBeans/ Eclipse
Supporting Server : Apache Tomcat 8, SSD cloud server, Amazon s3

Hardware requirements

- Computer processor : 4th generation Intel core i3
- Clock speed : 1.7 GHz
- Hard Disk Space : 500 GB
- RAM : 4 GB

2.4 TOOLS AND TECHNOLOGIES

Java

We will utilize different editors for Java that is accessible for instance Net Beans and Eclipse. Some noteworthy utilization of Java is that it is having meaning healthy faultlessness that suggests it is reliable as it can manage different sorts of uncommon case dealing with, memory portions, and waste social event.

Java has been configuration by sun Microsystems to give the necessary adaptability and furthermore it gives stage autonomous byte codes. Java is a made sure about language which will utilize different open keys for the refreshed security arrangement.

My SQL

My SQL is promoted in supported by My SQL which is a Swedish association, and different assortments are given by MySQL to point of reference

It is the most predominant database group and huge subsets of the functionalities can be properly sifted through

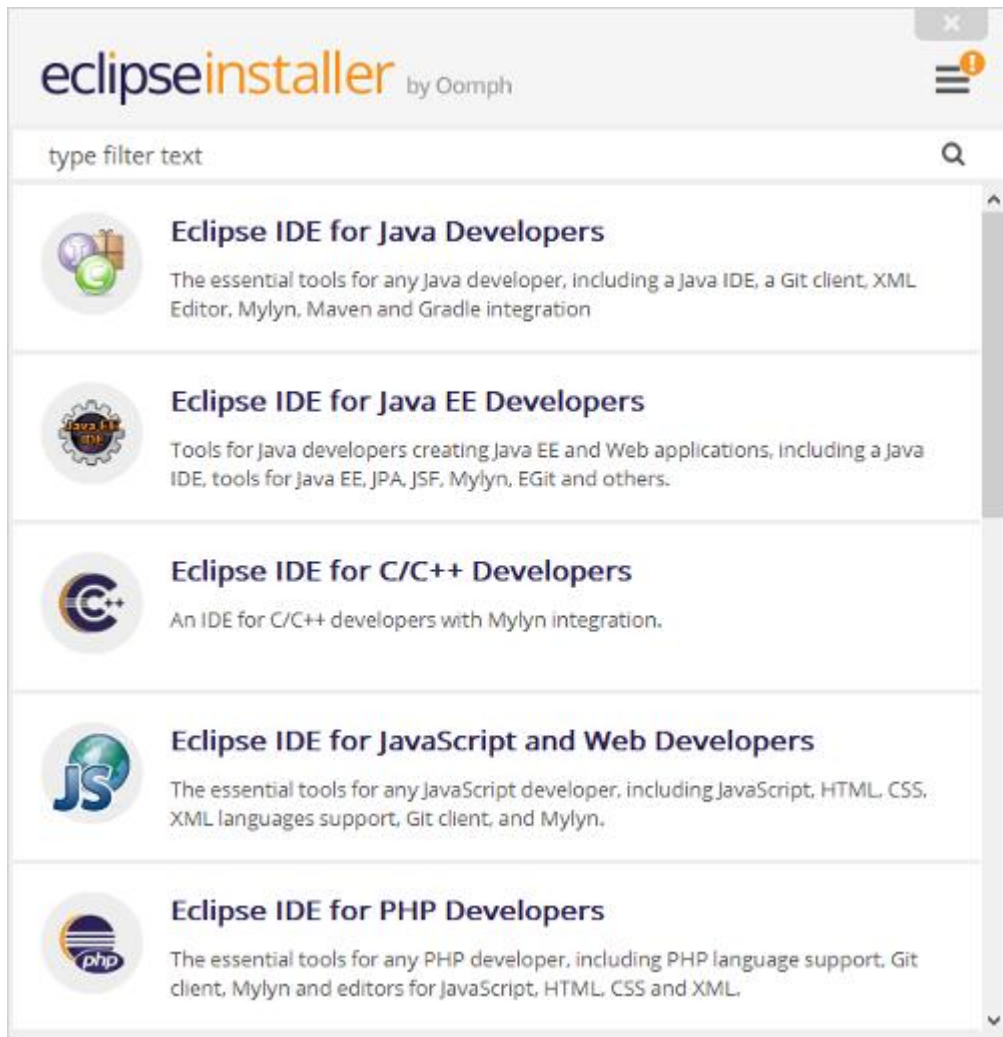
It is an open source grant based working

It will be versatile

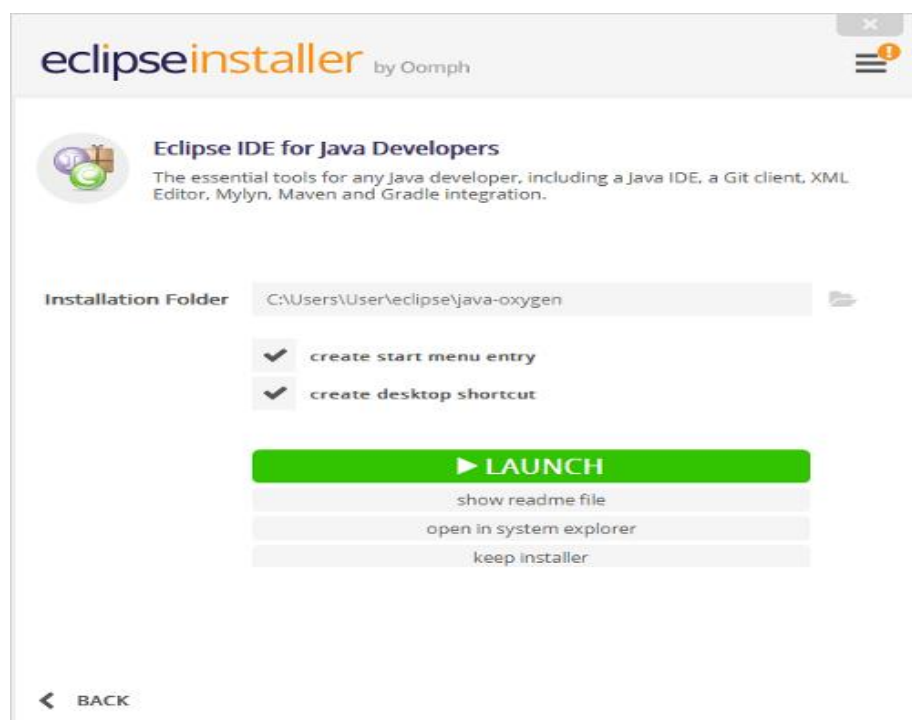
MySQL works on many working structures and it support different lingos for example Java PHP, etc.

Installation

1. *Run the Eclipse installer.*

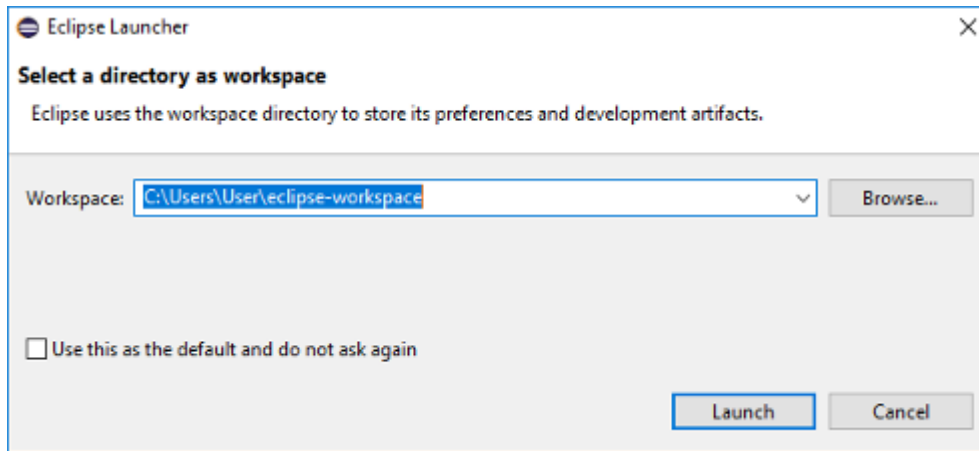


2. Click the "Launch" button.



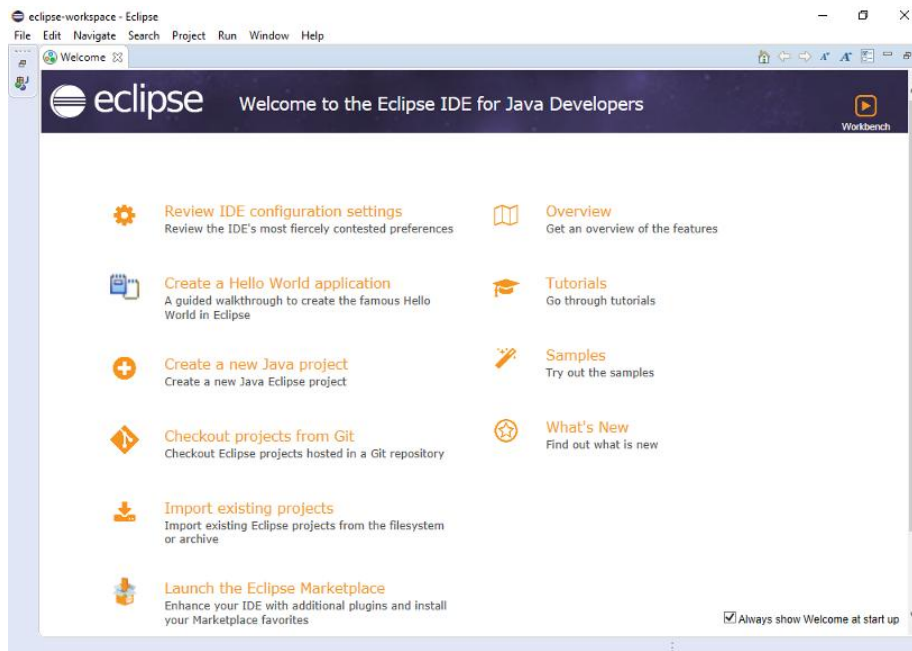
Configuration

1. Run Eclipse



2. Open the regular editor.

3. select "Java > Installed JREs":



CHAPTER 3

SOFTWARE REQUIREMENTS SPECIFICATION

3.1 Users

Working associate

Working associate will be the first login that will be provided for the working and this will be done by the service provider now the first login holder will be having all types of references to customize provisional working at is provided so if a single user is using it they can control according to their perception and if it is utilized on a corporate account basis then the first login will be automatically as an administrator

Assumptions and dependencies

We have assume that the system will be utilized by detailed profiling and correct information will be provided so that the working collaboration can be achieved properly

The dependency of the system is that when a particular work is required to be searched the system has to be login and in the same reference when any type of workability has to be accomplished then also the system space is required be utilized for the company for the individual who is using the system will be having the dependency of work

Scope and objective

Scope of the system is that it can be utilized by a single identity user and even by the bigger organizations so more references of integration can be acknowledged and each user can utilize the system in their own requirements

The main objective of the system is to provide proper communication between different types of identities so that the technological working can be outsourced and can be organized properly. All types of integration collaboration and workability references are provided on single system

Problem statement

Problem statement reference is based on the types of problems we are facing in terms of the reflect design that requires different references to the amalgamated so when the system is being design it has to work in a dual manner where the requirements can be outsourced and even the references of other requirements can be undertaken so we have to see the real time scenario working because the system has to react in the mode it has to be utilized. Multiple types of utility references are also required to be acknowledged which is quite difficult because perceptions will be different

3.2 Functional requirements

Functional requirements are the way that we can understand all types of features that are included within the system where we will be discussing the different types of processes that will be undertaken by the system when a particular feature is selected in the same way the outputs are also show checked for the reference workability design

Working mode option

Use Case Name	Working mode option
Trigger	Selective
Precondition	Admin control
Process	<p>Working mode option will be associated in such a way that users will be having their own choice that how the system has to be utilized so for example if the reference Outsourcing of a technological work has to be undertaken the related option will be selected and after which the uses will be guided by the system.</p> <p>The working mode will be established in such a way that users will be having their own choice of usability and even in parallel different types of modes can be selected so that if required different concentrations can be undertaken at the same time</p>
Post-condition	Reference mode selected

Integrative platforms

Use Case Name	Integrative platforms
Trigger	Settings
Precondition	Authentication
Process	<p>Integrative platforms are provided which will support the users to perform their activities more quickly and more appropriately yeah whatever projects are provided is required to be organized in such a way that proper results and Solutions can be obtained.</p> <p>The integrated platforms will provide the substantial usability of different third party platforms and resources so that the users can consider any type of technology that is needed to undertake a particular project</p>
Post-condition	Integration provided

Gateways

Use Case Name	Gateways
Trigger	Settings
Precondition	Authentication
Process	<p>The gateways that are required to control the financial aspects of the working references is also associated so any type of Gateway that is required has to be selected and accordingly the system will provide the setups and as the setups are acknowledged it can be utilized.</p> <p>Various types of security provisions for the Gateway working is all the associated so the users will be having the flexibility to use it</p>
Post-condition	Options seen

Collaborations

Use Case Name	Collaborations
Trigger	Selective
Precondition	Inputs and authentication
Process	Collaborations with the help of a platform is provided this will be undertaken with the help of regulations which will be set so for example if a related user is required to become indicated for a particular work related invitation has to be sent and if the relational workability is accepted the platform will be utilized for virtualized working and interaction
Post-condition	Selective team collaboration

Process

Use Case Name	Process
Trigger	Settings
Precondition	Reference authentication
Process	<p>Process based activity provision is associated with in the system which can be acknowledged in such a way that when multiple users are incorporated for a particular project associated workability can be provided and can be controlled from a central frame.</p> <p>Allocation of the work and tracking of the work is very much important so the system provides the mechanism to perform these perceptions</p>
Post-condition	Multi process support provided

3.2 Nonfunctional requirements_

Nonfunctional requirements are considered in such a way that when we are having different types of users using the system they have to accompanied with all types of references which are suitable for them to manage the workability they required. Different types of nonfunctional requirements will be considered so for example in the real-time the users require the availability of the system whenever they require in the same way they required security and likewise they require scalability.

Scalability

The scalability of the system is in the reference that different types of clients can utilize it and any type of workability compatibility can be associated or we can say that large set of data can be properly handled by the system without any type of complication. We have to reference that different types of bigger project will be associated so workability can be properly organized

Functional Requirements	Non Functional Requirements
<ul style="list-style-type: none">• Product features	<ul style="list-style-type: none">• Product property
<ul style="list-style-type: none">• Describe the actions with which the user work is concerned	<ul style="list-style-type: none">• Describe the experience of the user while doing the work
<ul style="list-style-type: none">• A functions that can be captured in use cases	<ul style="list-style-type: none">• Non-functional requirements are global constraints on a software system that results in development costs, operational costs
<ul style="list-style-type: none">• A behaviors that can be analyzed by drawing sequence diagrams, state charts, etc	<ul style="list-style-type: none">• Often known as software qualities
<ul style="list-style-type: none">• Can be traced to individual set of a program	<ul style="list-style-type: none">• Usually cannot be implemented in a single module of a program

Figure3.2.1 Difference is shown between functional and non-functional requirements

Availability

The system will be available for different references of modeled work which will be selected by the user themselves that how the system has to behave and for any type of workability that they want it can be associated with the direct login or we can say that whenever the working is required the users can login and perform their activities

Security

The system is incorporated with different types of security measures that can be undertaken and as the security measures are implemented it will be saved in different consideration. Multiple types of data provisions and acknowledgements are associated which will be helpful to manage the perceptions properly. Advanced encryption standards are utilized for the data transfer and Data integrity

Data backup

Data backup is associated in such a way that whatever the workability and the requirements that organized on to the platform will be saved also on the platform where a cloud platform will be utilized. All the data will be automatically synchronized as various types of working references by different types of pins for different types of projects will be associated

Constraints

The user should be provided with the detailed information that how the system can be utilized as when multiple users are using it in different scenarios it should be properly organized so a detailed constraint understanding will be designed and will be provided with various types of notifications to the client's vendor using the system

CHAPTER 4 SYSTEM DESIGN

4.1 Context diagram

Context diagram can help the stakeholders and analysts to understand the context of the system which is been designed without any technical knowledge

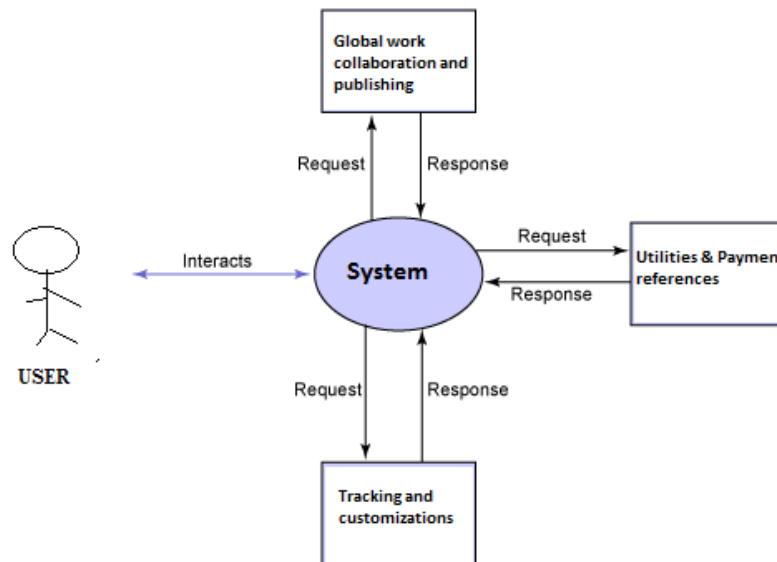


Figure 4.1.1 Context diagram

4.2 Data flow diagrams

Data flow diagram represent the flow of data and it will be done by referencing different types of components based on function database input output and flows

	Yourdon and Coad	Gane and Sarson
External Entity		
Process		
Data Store		
Data Flow		

DFD diagram

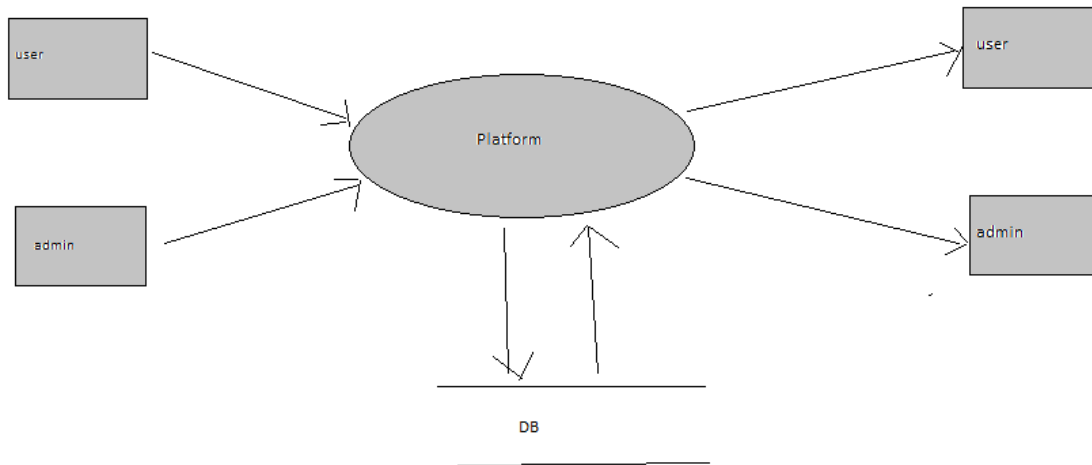


Figure 4.2.1 DFD diagram level-0

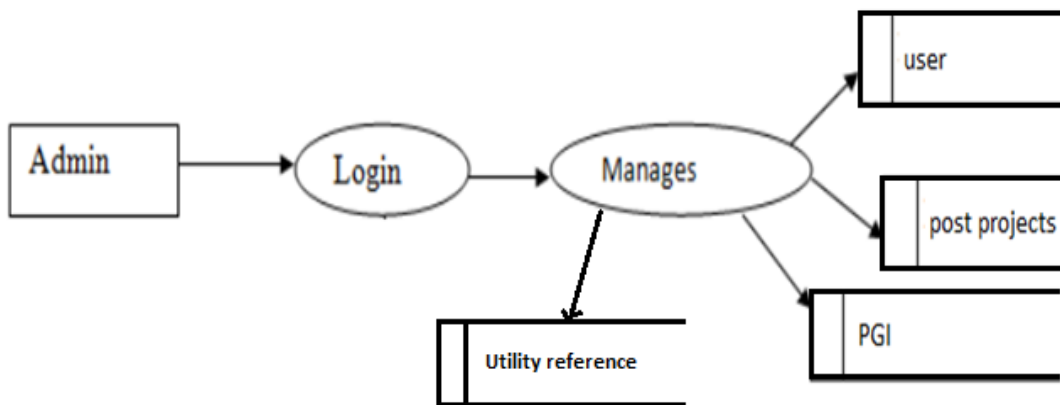
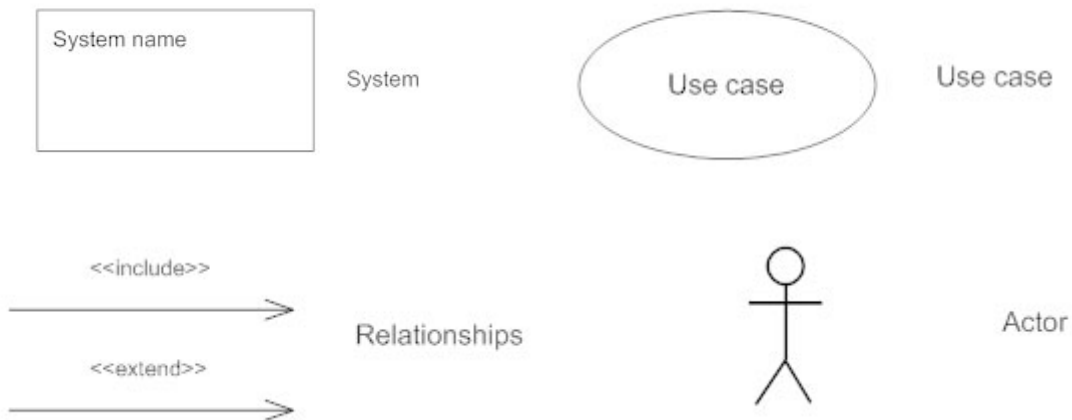


Figure 4.2.2 DFD diagram

CHAPTER 5 DETAILED DESIGN

5.1 Use case diagram

Use case diagram shows all types of interactions and relationships between the user and different types of use cases where the user is involved for the referential usage.



Use case diagram

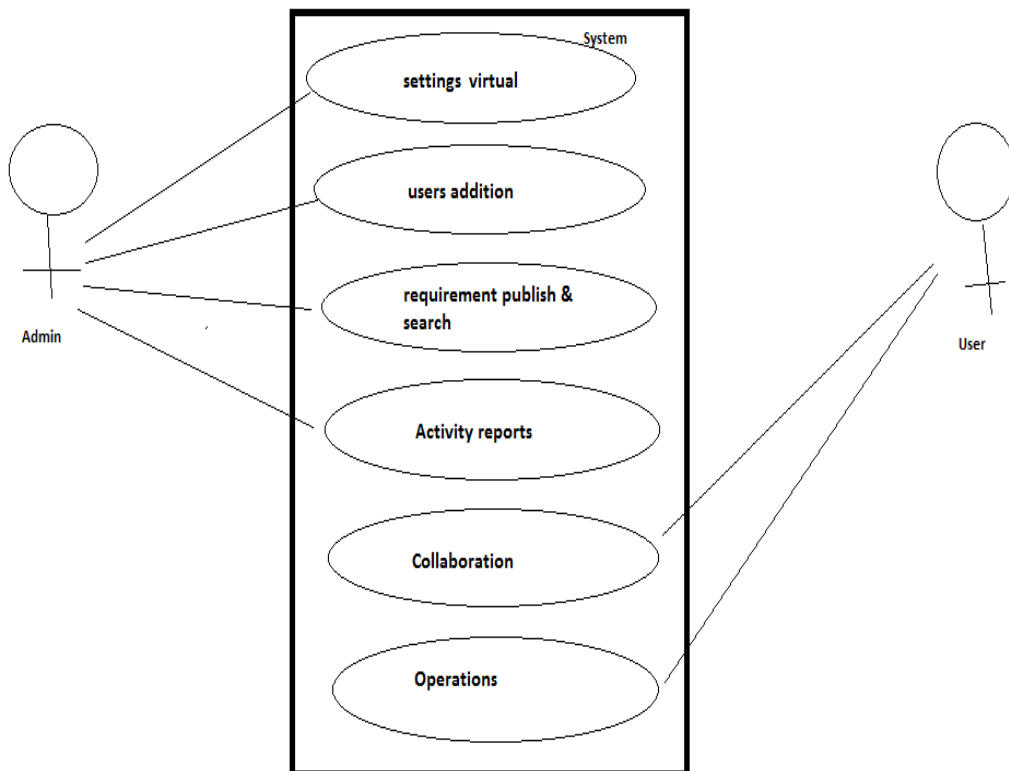


Figure 5.1.1 Use case diagram

5.2 Class diagram

Class diagram is divided into three main compartments where all types of class name attribute and operations of execution will be included.

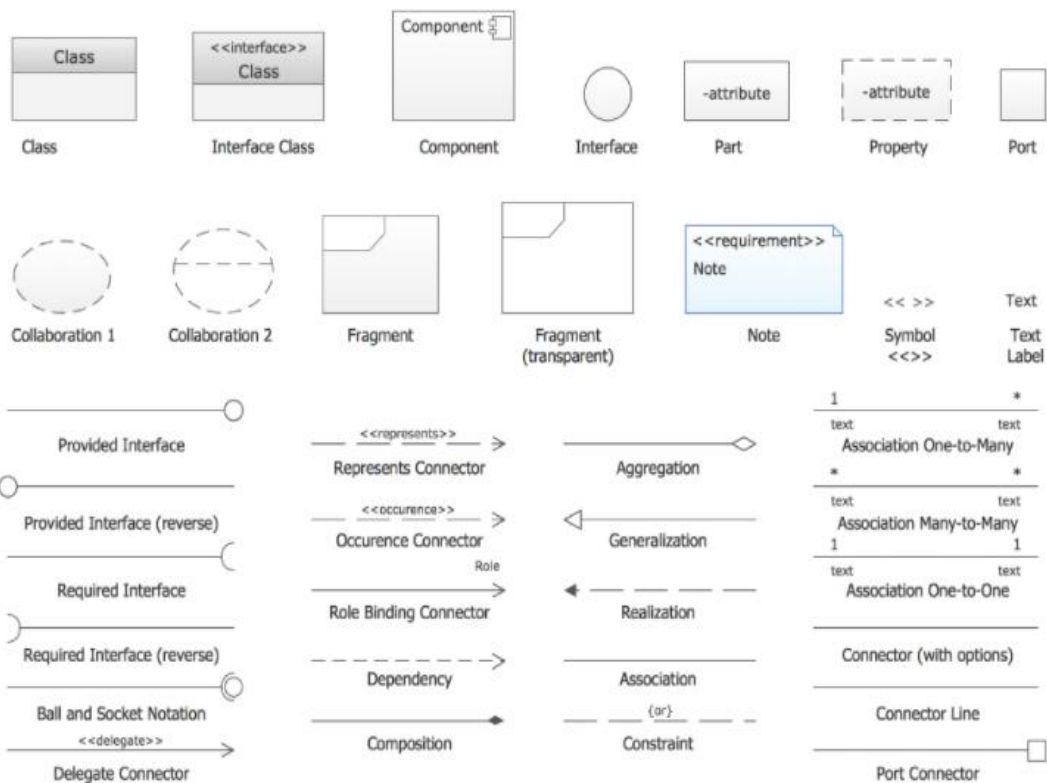
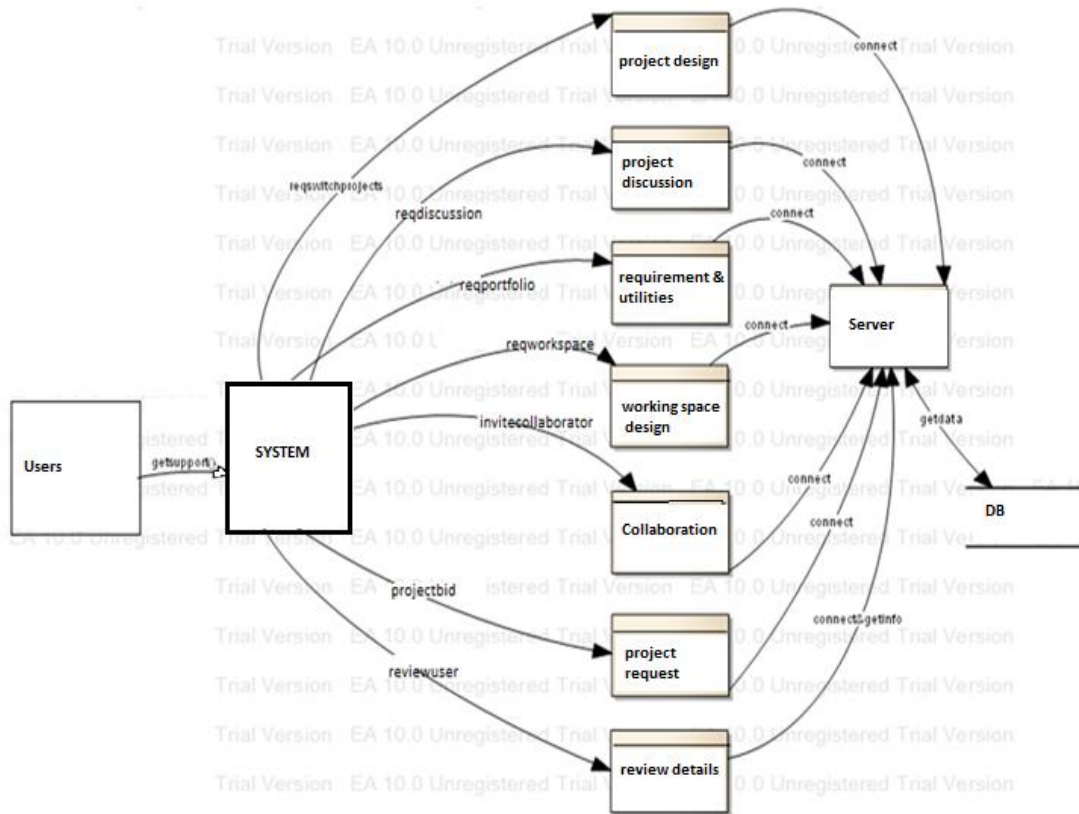


Figure 5.2.1 Class diagram employee selections

Class diagram

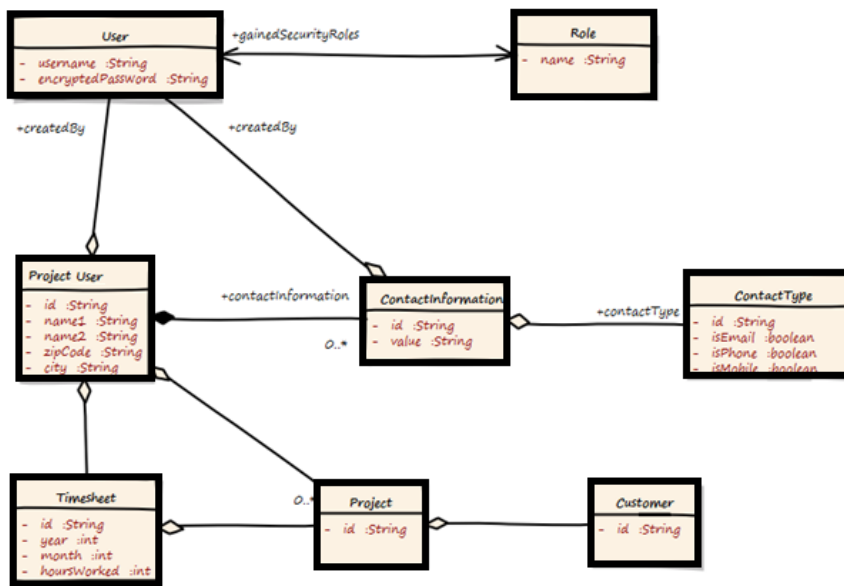


Figure 5.2.2 Class diagram

5.3 Entity relationship model

Entity relationship model helps us to understand the related data requirements so that well design database can be organized

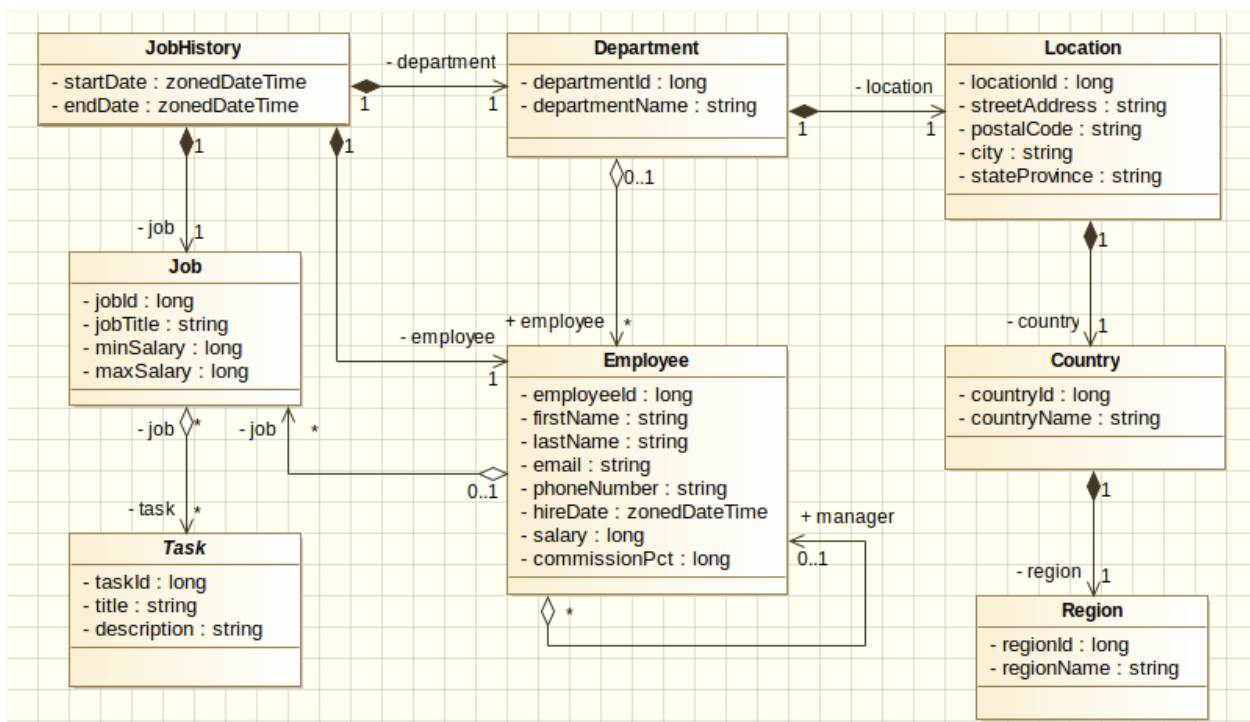


Figure 5.3.1 Entity relationship

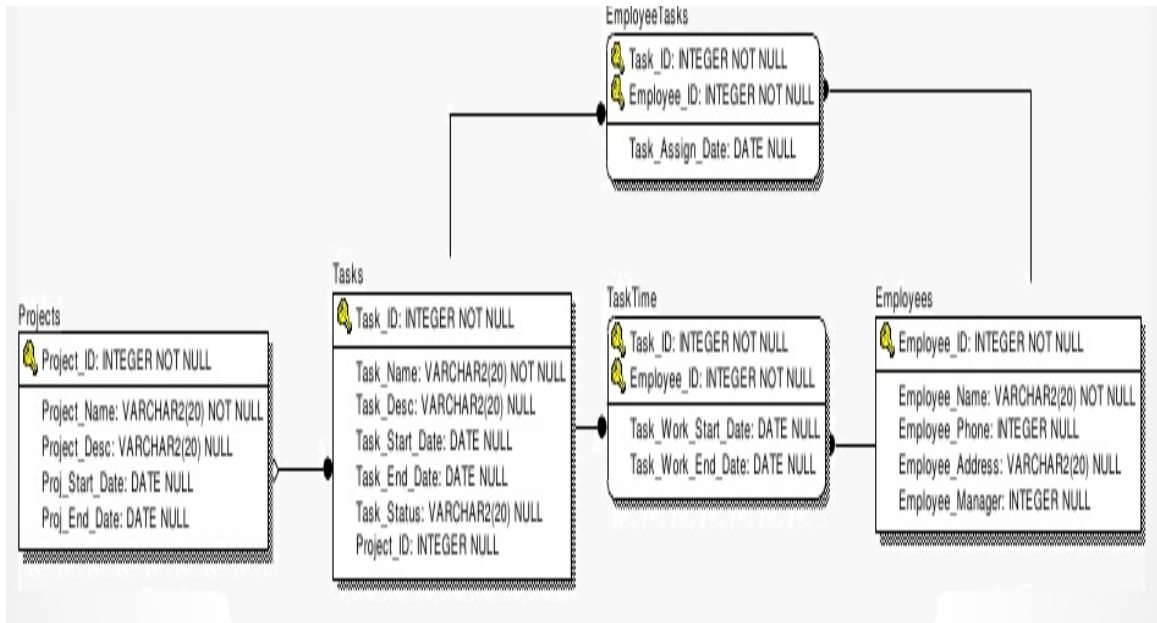


Figure 5.3.2 Entity relationship

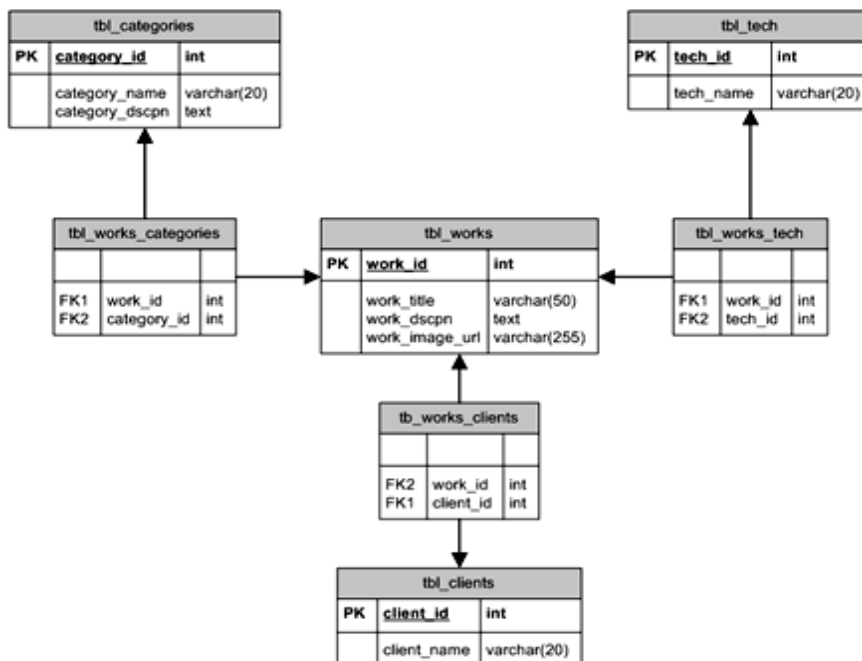


Figure 5.3.3 ER Diagram

5.4 Sequence diagram

Sequence diagram shows different types of task that will be done between the user and the system

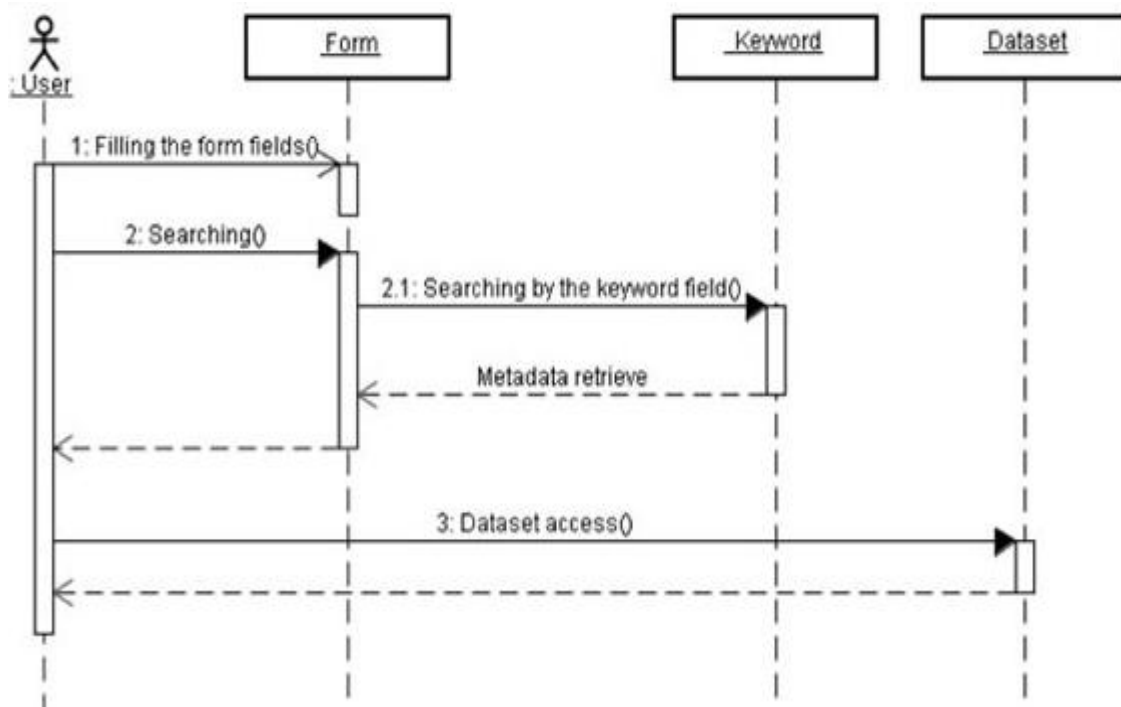


Figure 5.4.1 Sequence diagram

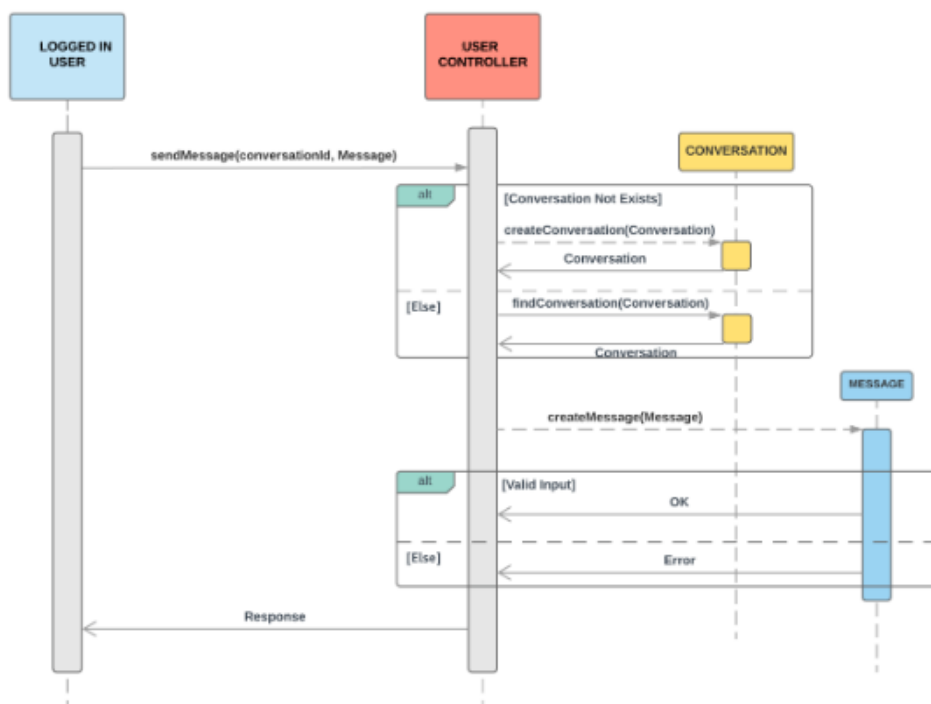


Figure 5.4.2 Sequence diagram

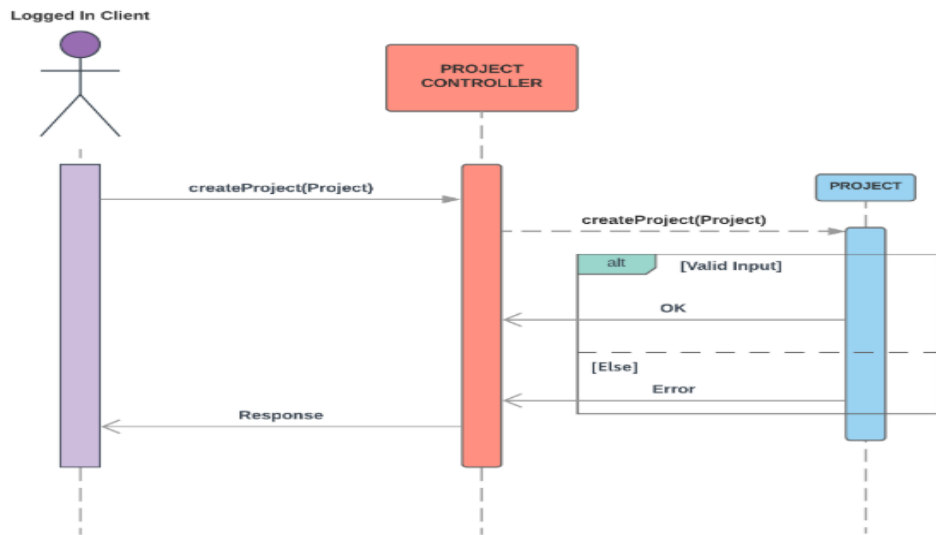


Figure 5.4.3 Sequence diagram

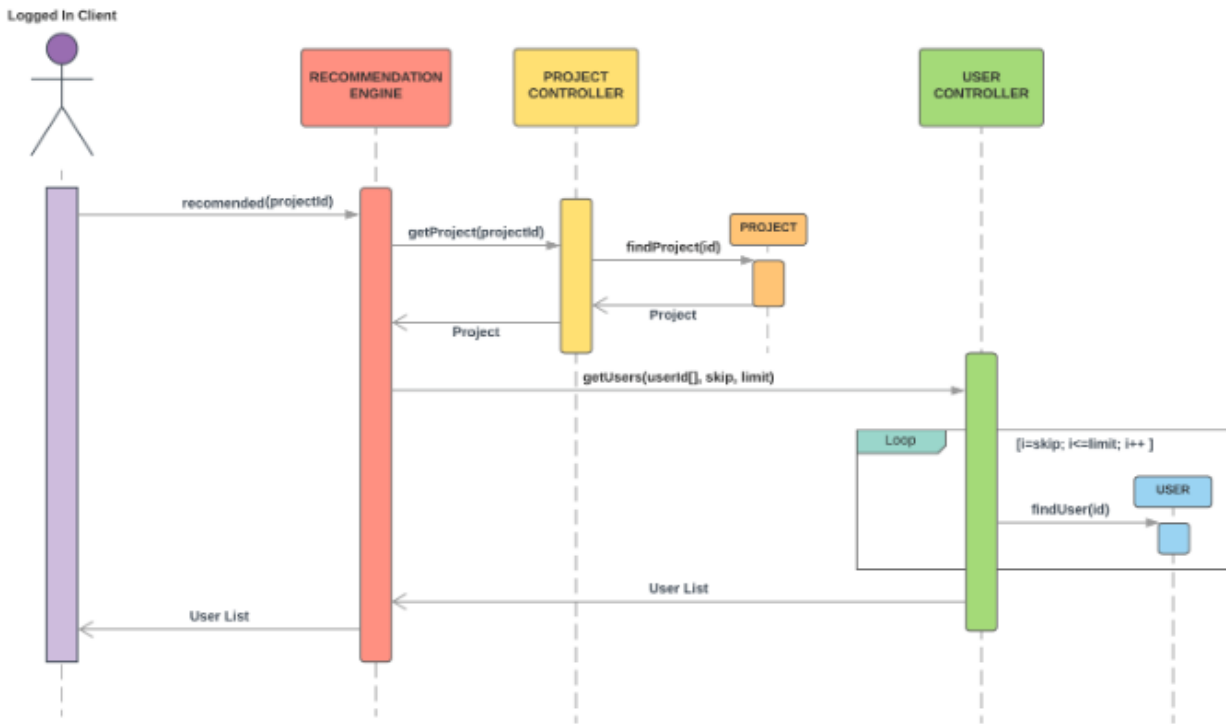


Figure 5.4.4 Sequence diagram

5.5 Activity diagram

Activity diagram shows all types of activities, associations, conditions and constraints to have a detailed understanding about the activities

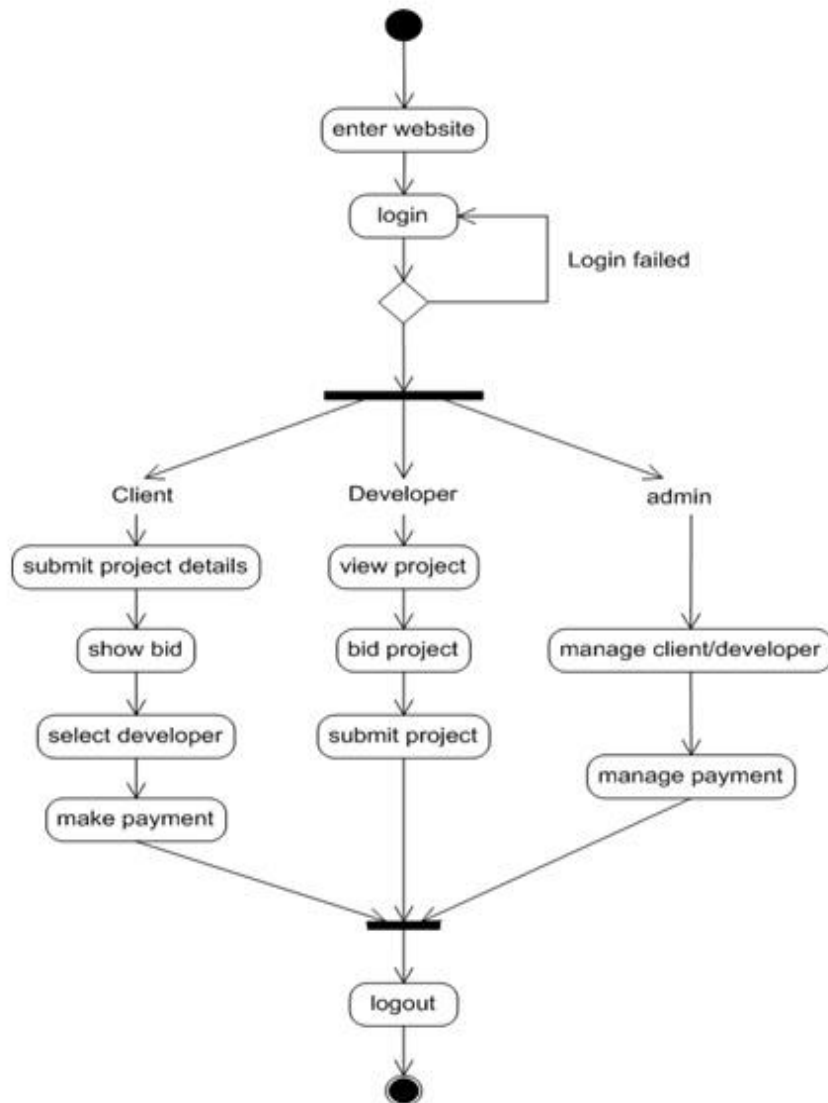


Figure 5.5.1 Activity diagram

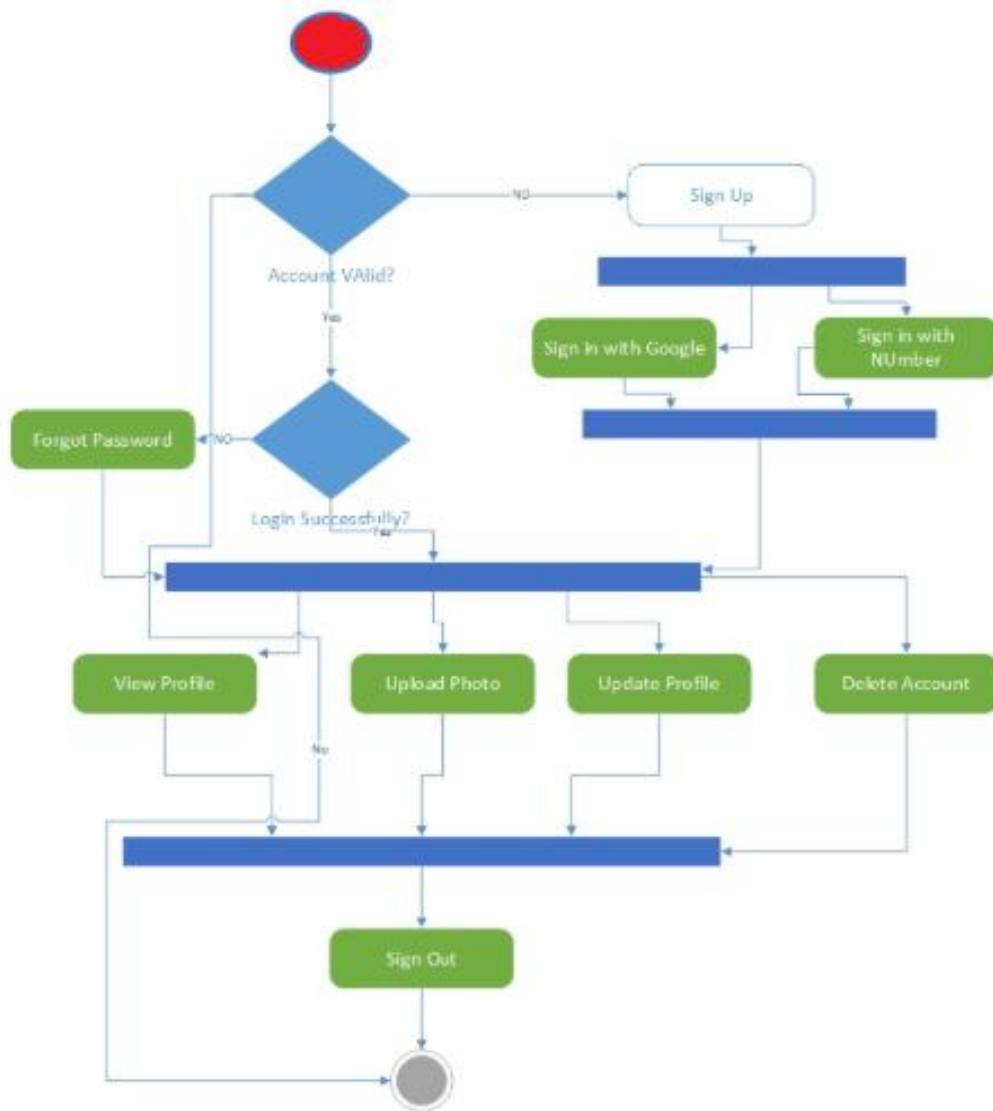


Figure 5.5.1 Login and profile settings activity diagram

CHAPTER 6 IMPLEMENTATION

6.1 Screen Shots

User login

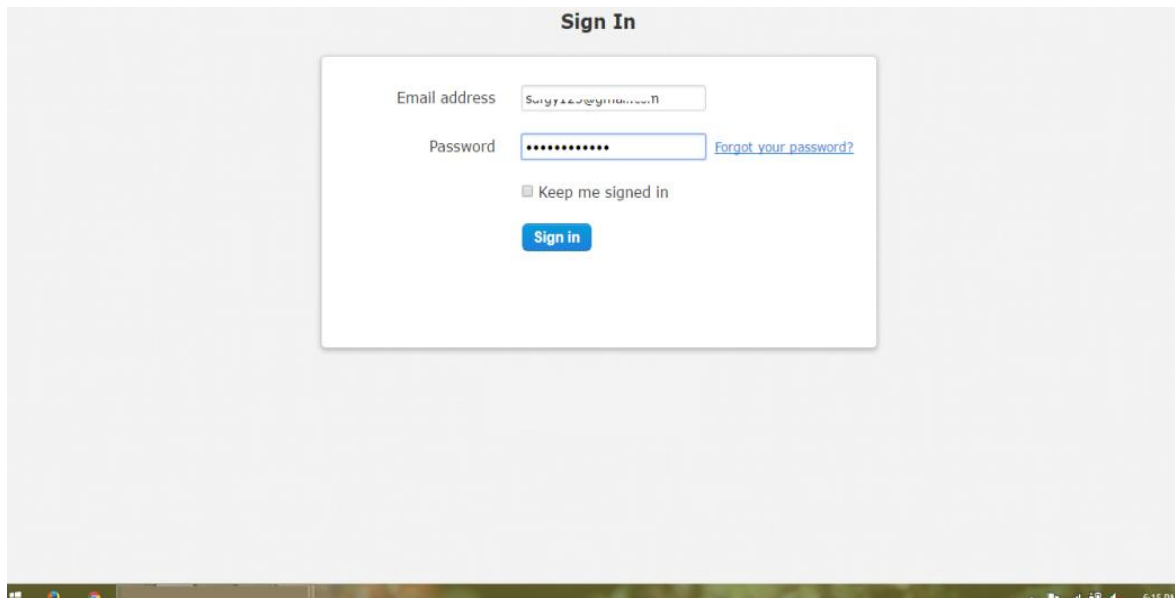


Figure 6.1.1 User login

Frame settings options are shown

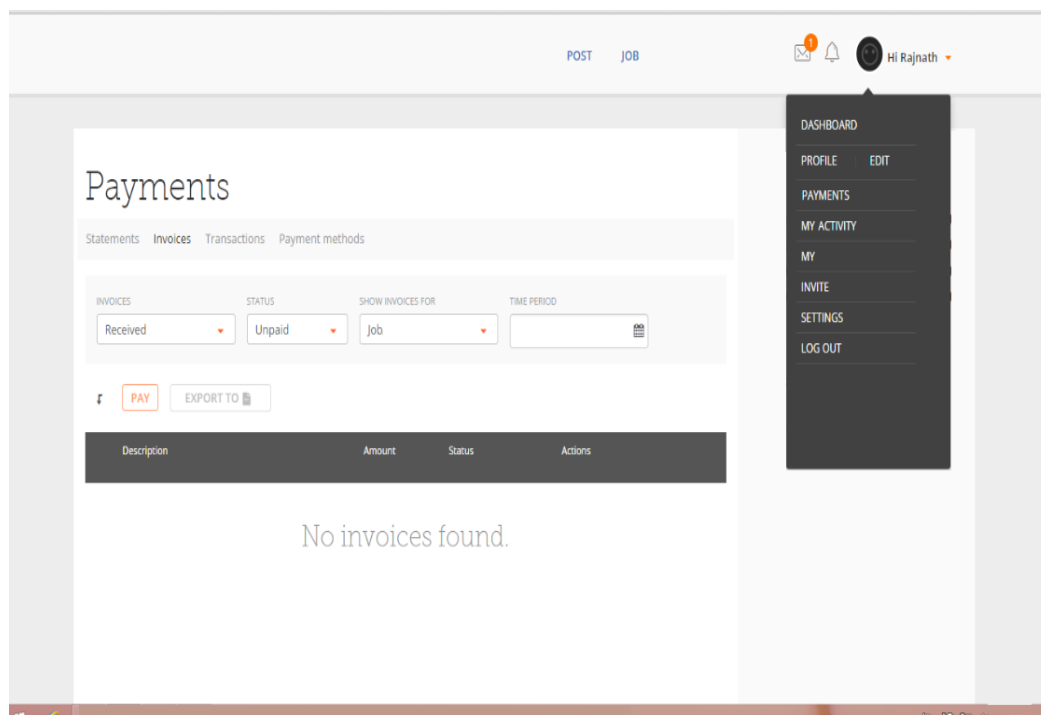
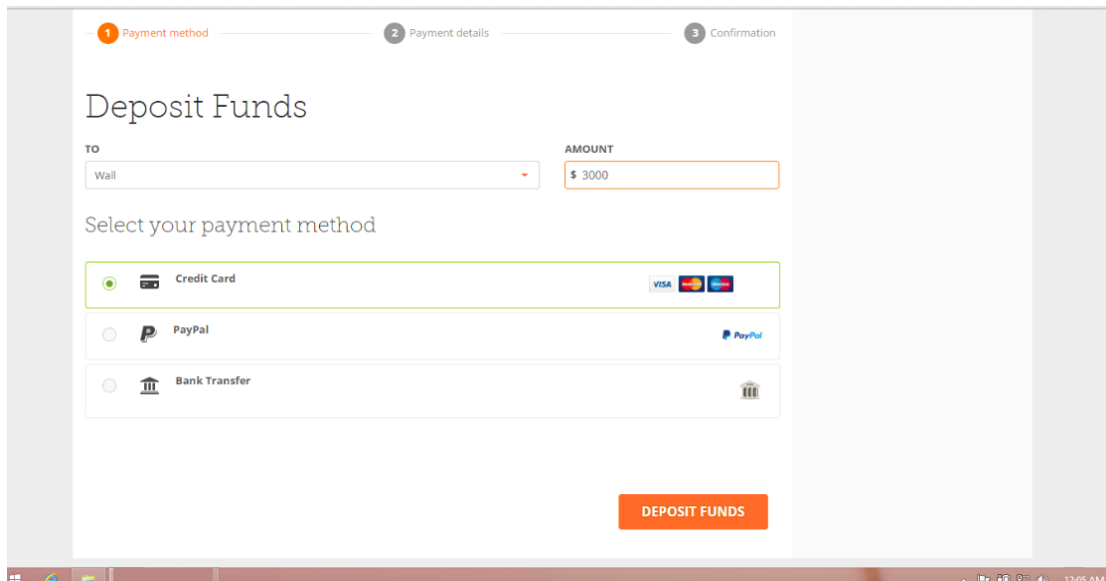


Figure 6.1.2 Frame settings

Payment method



The screenshot shows a web interface for depositing funds. At the top, there are three steps: 1. Payment method (highlighted), 2. Payment details, and 3. Confirmation. The main heading is "Deposit Funds". Below this, there are two input fields: "TO" with a dropdown menu showing "Wall" and "AMOUNT" with a text box containing "\$ 3000". Underneath, the text "Select your payment method" is displayed. There are three radio button options: "Credit Card" (selected, with icons for Visa, Mastercard, and American Express), "PayPal" (with the PayPal logo), and "Bank Transfer" (with a bank icon). At the bottom right, there is an orange button labeled "DEPOSIT FUNDS".

Figure 6.1.3 Payment method

Various corporate tools available

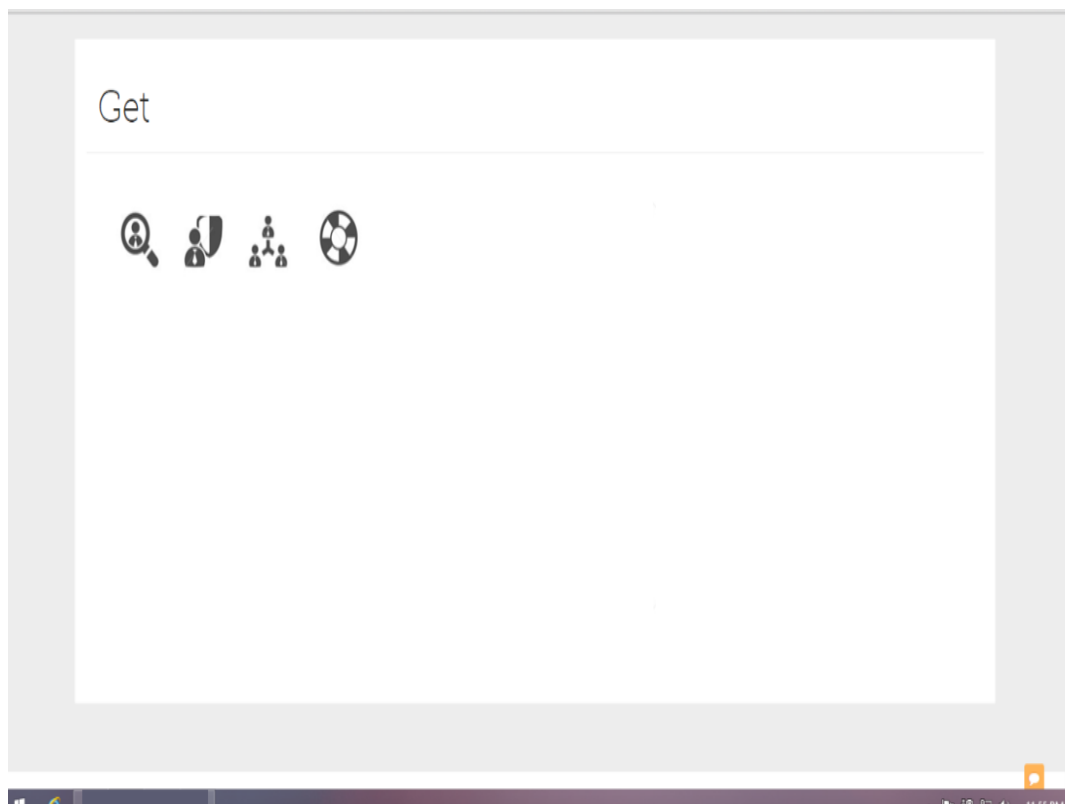


Figure 6.1.4 cooperate tools

Working tool usage shown

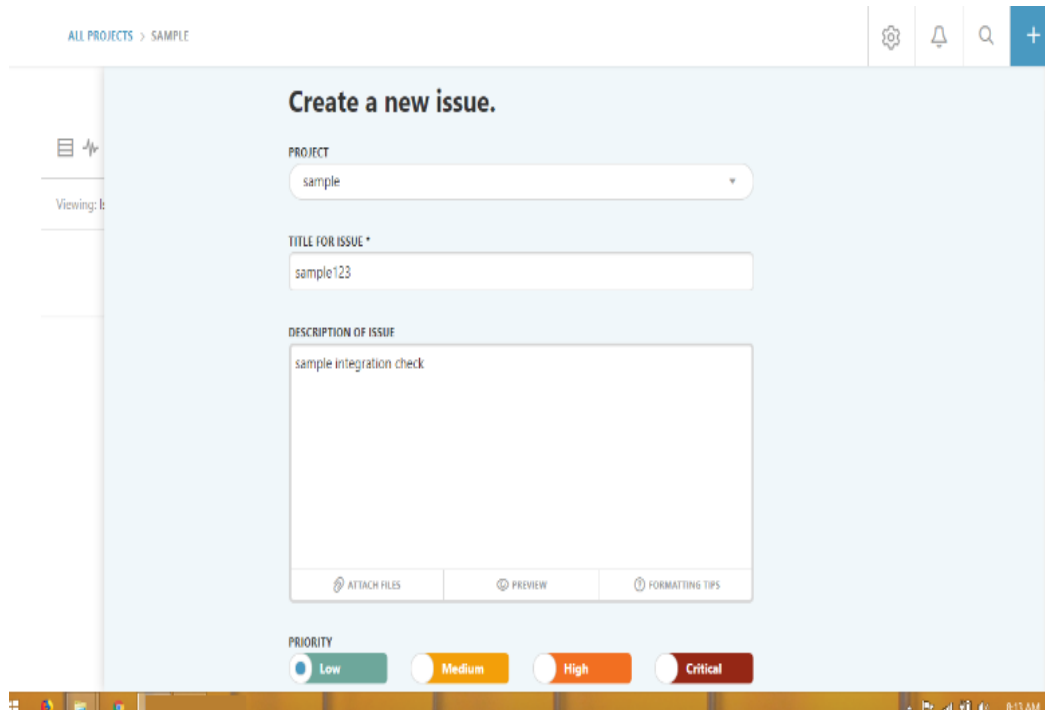


Figure 6.1.5 Working tool

Work assignments and operations

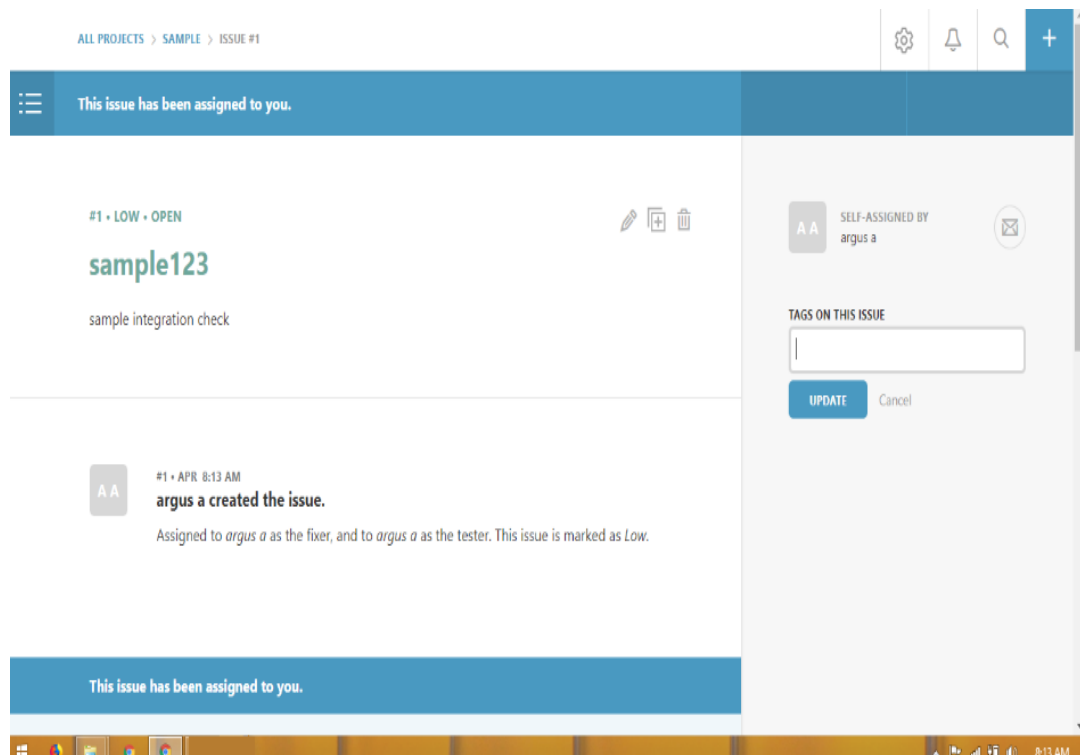


Figure 6.1.6 work assignment and operations

Reports generated

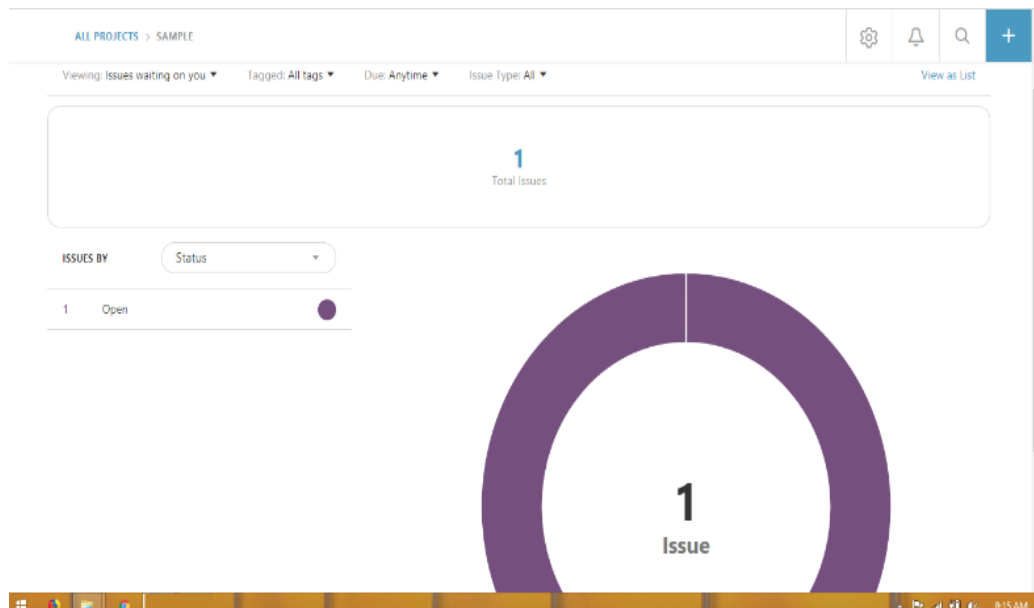


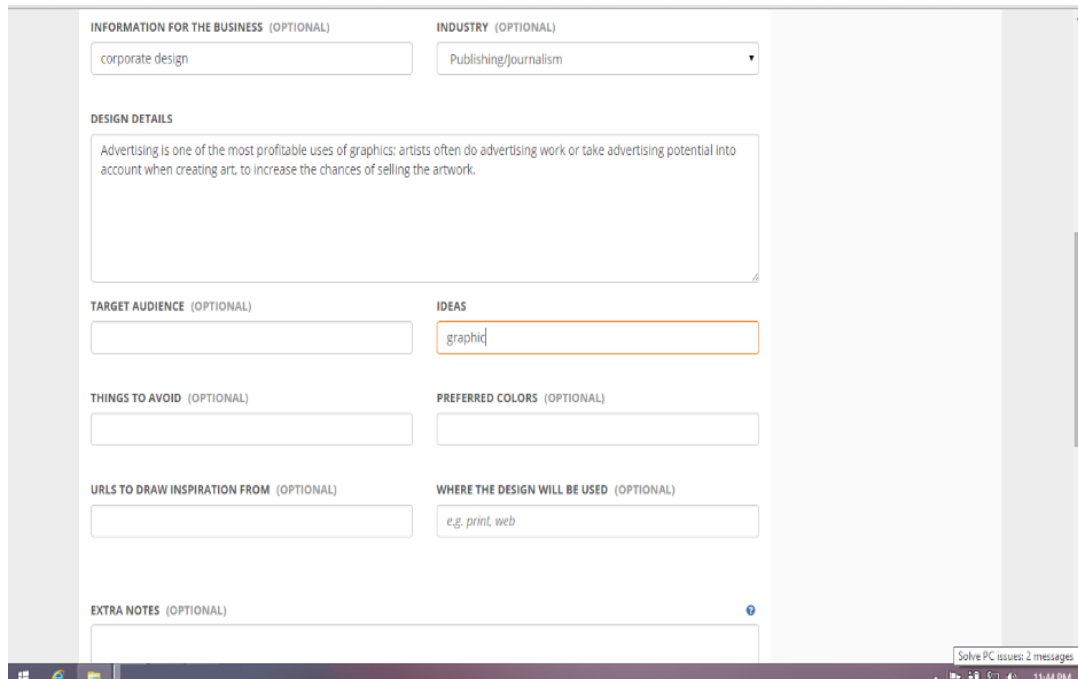
Figure 6.1.7 Reports generated

Posting-1

The screenshot shows a job posting form on a website. At the top, there are navigation links for 'POST' and 'JOB', along with icons for mail, notifications, and a user profile for 'Hi Rajnath'. A dropdown menu is open, showing options: 'BROWSE', 'POST', 'FIND', and 'SKILLS'. The form has several sections: 'WHERE TO WORK FROM?' with three radio button options: 'REMOTELY (anywhere)', 'REMOTELY (preferred country)', and 'ON-SITE (specific location)'; 'WHAT DO YOU NEED TO GET DONE?' with a text input field containing 'graphic designer'; 'PICK CATEGORY' with two dropdown menus, one set to 'Design' and the other to 'Illustration & Graphics'; and 'SOME MORE DETAILS ABOUT THE JOB' with a text area containing the text: 'Design details: Advertising is one of the most profitable uses of graphics; artists often do advertising work or take advertising potential into account when creating art. to increase the chances of selling the artwork.'

Figure 6.1.8 Posting 1

Posting-2



INFORMATION FOR THE BUSINESS (OPTIONAL)
corporate design

INDUSTRY (OPTIONAL)
Publishing/Journalism

DESIGN DETAILS
Advertising is one of the most profitable uses of graphics; artists often do advertising work or take advertising potential into account when creating art, to increase the chances of selling the artwork.

TARGET AUDIENCE (OPTIONAL)

IDEAS
graphic

THINGS TO AVOID (OPTIONAL)

PREFERRED COLORS (OPTIONAL)

URLS TO DRAW INSPIRATION FROM (OPTIONAL)

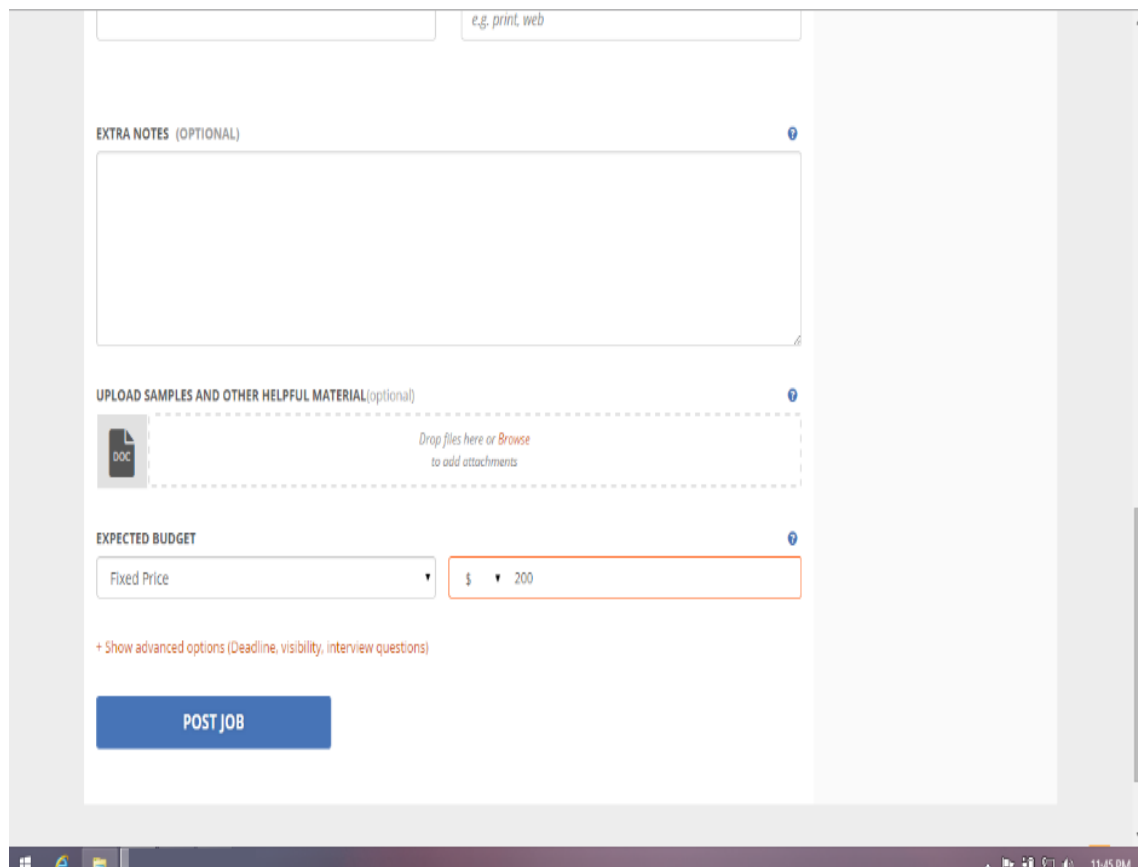
WHERE THE DESIGN WILL BE USED (OPTIONAL)
e.g. print, web

EXTRA NOTES (OPTIONAL)

Solve PC issues 2 messages

Figure 6.1.9 Posting 2

Additional reference to be uploaded



e.g. print, web

EXTRA NOTES (OPTIONAL)

UPLOAD SAMPLES AND OTHER HELPFUL MATERIAL(optional)

Drop files here or *Browse* to add attachments

EXPECTED BUDGET

Fixed Price \$ 200

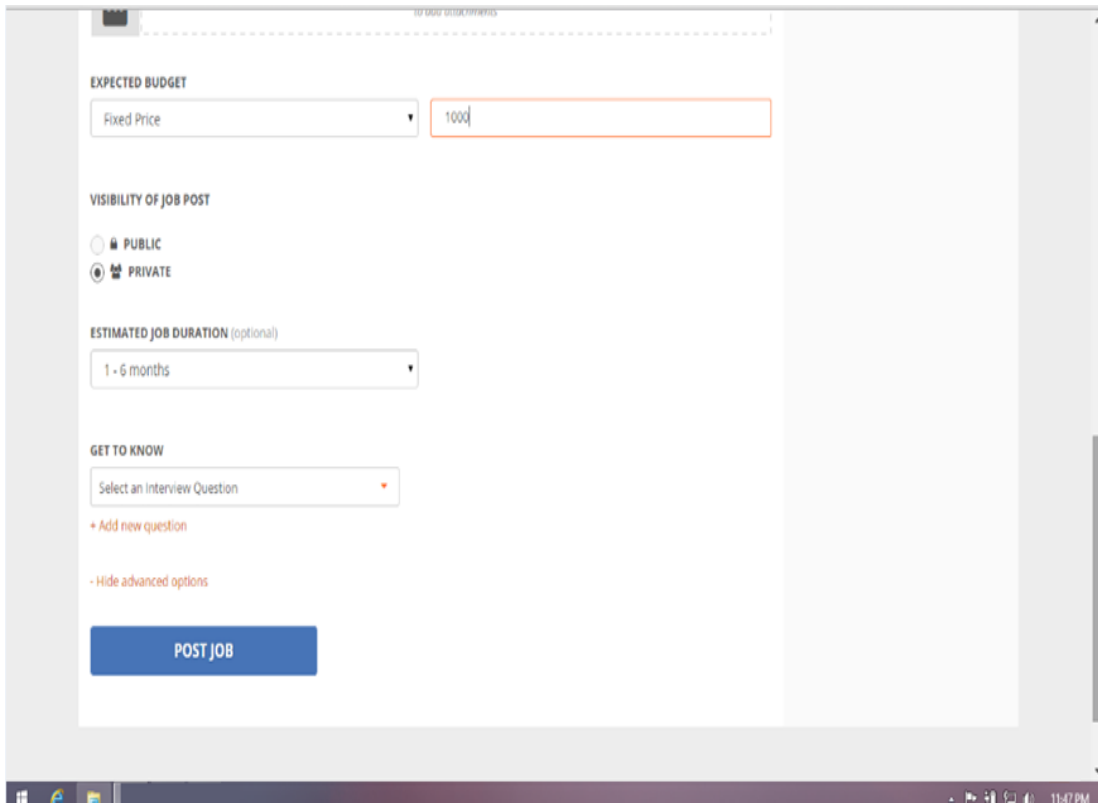
+ Show advanced options (Deadline, visibility, interview questions)

POST JOB

11:45 PM

Figure 6.1.10 additional reference to be uploaded

Remote-interview



EXPECTED BUDGET

Fixed Price

VISIBILITY OF JOB POST

PUBLIC

PRIVATE

ESTIMATED JOB DURATION (optional)

1 - 6 months

GET TO KNOW

Select an Interview Question

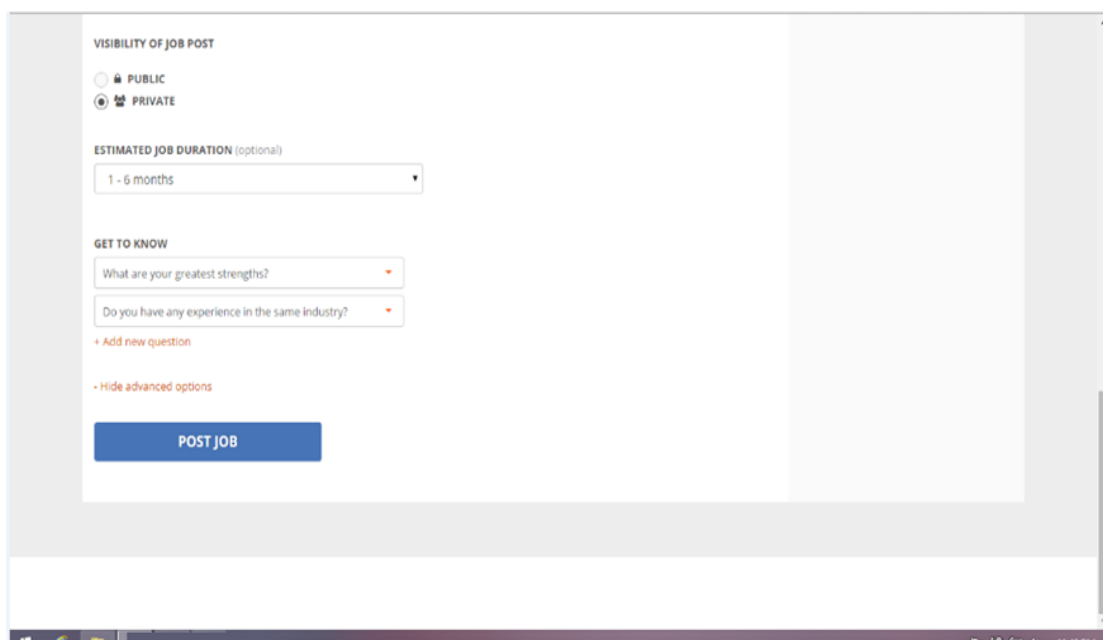
+ Add new question

- Hide advanced options

POST JOB

Figure 6.1.11 Remote interview

Interview questions



VISIBILITY OF JOB POST

PUBLIC

PRIVATE

ESTIMATED JOB DURATION (optional)

1 - 6 months

GET TO KNOW

What are your greatest strengths?

Do you have any experience in the same industry?

+ Add new question

- Hide advanced options

POST JOB

Figure 6.1.12 Interview Questions

Search options

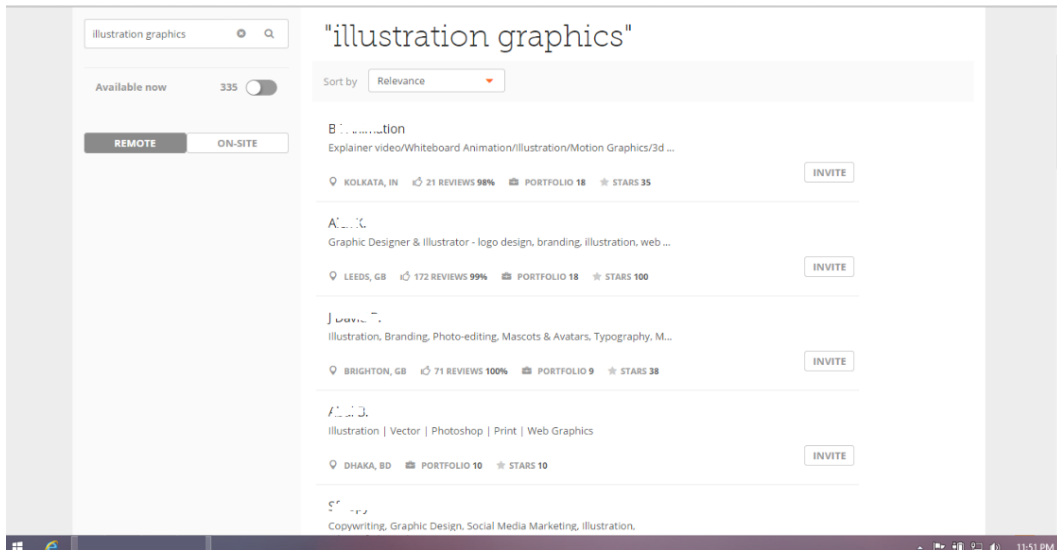


Figure 6.1.13 Search options

Direct contact reference

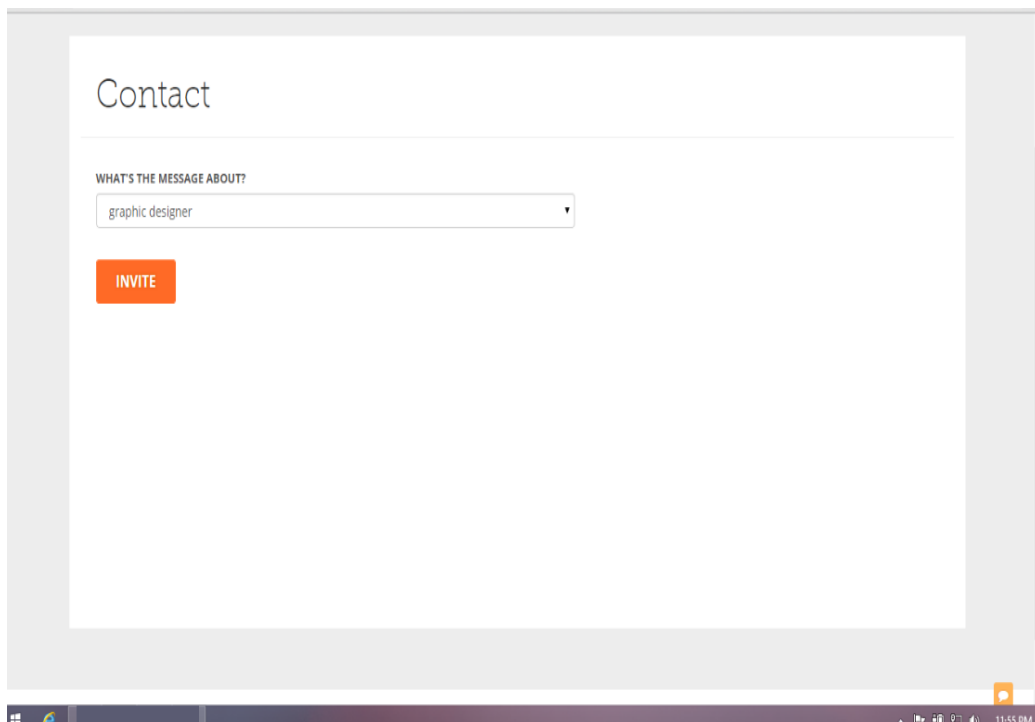


Figure 6.1.14 Direct Contact reference

6.2 SAMPLE CODE

Gateways

```
import com.mes.sdk.core.Settings;
import com.mes.sdk.exception.MesRuntimeException;
import com.mes.sdk.gateway.CcData;
import com.mes.sdk.gateway.Gateway;
import com.mes.sdk.gateway.GatewayRequest;
import com.mes.sdk.gateway.GatewayRequest.TransactionType;
import com.mes.sdk.gateway.GatewayResponse;
import com.mes.sdk.gateway.GatewaySettings;

class SaleTestCase {

    private static Gateway gateway;
    private static GatewaySettings settings;

    public void run() {
        settings = new GatewaySettings()
            .credentials("9410000xxxxx000000xx", "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
            .hostUrl(GatewaySettings.URL_CERT)
            .method(Settings.Method.POST)
            .timeout(10000)
            .verbose(true);

        gateway = new Gateway(settings);
    }
}
```

Upload

```
private boolean uploadImage(String filePath, CommonsMultipartFile file) {

    boolean filecreate = false;
    String createdFilePath = null;

    File imageFile = new File(filePath + "/images" + "/" +
sessionBox.getCurrentUser().getLogin() + "/" + file.getOriginalFilename().replaceAll(" ", "_"));
    if(imageFile.exists()) {
        StringBuffer sbf = new StringBuffer(file.getOriginalFilename());
        sbf.replace(sbf.lastIndexOf("."), sbf.lastIndexOf("."), new Date().getTime() + "");
        String strImageFileName = sbf.toString().replaceAll(" ", "_");
        imageFile = new File(filePath + "/images" + "/" +
sessionBox.getCurrentUser().getLogin() + "/" + strImageFileName);
    }
    try {
        FileOutputStream out = new FileOutputStream(imageFile);
        createdFilePath = writeFile(out, imageFile, file);

        if(createdFilePath != null) filecreate = true;

    } catch (FileNotFoundException e) {
        logger.error("Error while creating file " + imageFile.getAbsolutePath());
        logger.error(e);
    }
}
```

File

```
File file
= new File(request.getServletContext().getAttribute("FILES_DIR")+File.separator+fileName)
;
if(!file.exists()){
    throw new ServletException("File doesn't exists on server.");
}
System.out.println("File location on server: "+file.getAbsolutePath());
ServletContext ctx = getServletContext();
InputStream fis = new FileInputStream(file);
String mimeType = ctx.getMimeType(file.getAbsolutePath());
response.setContentType(mimeType != null? mimeType:"application/octet-stream");
response.setContentLength((int) file.length());
response.setHeader("Content-Disposition", "attachment; filename=\"" + fileName
+ "\"");

ServletOutputStream os = response.getOutputStream();
byte[] bufferData = new byte[1024];
int read=0;
while((read = fis.read(bufferData))!= -1){
    os.write(bufferData, 0, read);
}
os.flush();
os.close();
```

CHAPTER 7

SOFTWARE TESTING

Testing is important as it will play an important role to provide a quality system to the users and to maintain a good identity of the organization. Software testing will be performed in such a way that all types of perceptions can be defined in can be checked according to the main requirement perception that is outlined at the time of requirement gathering. Software testing will be done with the help of different types of techniques so that all related scenarios can be tested and can be checked properly.

All types of scenarios that will be checked will be documented also as we want that proper future reference based on workability can be established. The considerations that are required to be checked are very much helpful so that all the errors that are found can be eliminated. As soon as the errors are eliminated it will be useful for the organizations to maintain error-free workability for the clients. All the references that are acknowledged will be substituted in such a way that it should be profitable for the understanding so we have selected the automation testing and unit testing as the considerations

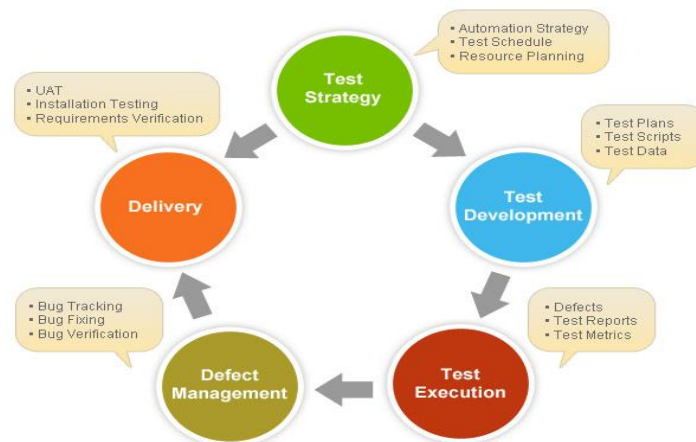


Figure 7.1- Testing formation plan details

Unit testing

Unit test perception will help us to more elaborate the working consideration as first we will check individual components and identities that have ended within the system and after which the integration testing will be performed. All types of resources that are required for different types of Mod working will be checked. All types of references that are required to be acknowledged in terms of considerable substitution or we can say that how the system behaves for different perceptions when it is selected will be also checked.

The references of multiple user working and interactions in the real-time will be checked as we want that each type of interaction that is undertaken should be properly organized with proper regulations.

Different types of working updates that are required for establishing different types of work understanding will be also established and will be checked for the scenario based working

Automation testing

Automation Testing is important as the system will be including different types of functions and each function are required to be checked so we can use the automated and regulated software for example we are using the Selenium software to perform different types of check

All references of automation will be important as the system will be provided on the server and when the system is provided on to the service the references should be properly acknowledged so the software will provide as different types of reports that has to be considered for eliminating the problem

Test cases

No	Detailed description	Inputs provided	Expected Result	Reference	Status	Severity
1	Associate	Inputs based on credential provided	Work interface	Structuring and settings provided	Pass	Critical
2	Work presentation	Inputs	Details added	All details presented and saved	Pass	Critical
3	Message in real time	Rule based	Reference rules added	Direct reference can be used for the working	Pass	Moderate
4	Tools	Selective	Reference provided	Various tools used	Pass	Critical
5	Find	Input based	Details provided	Different details	Pass	Critical

6	Fiscal	Selective	orking setups	Usage and reference working provided	Pass	Critical
7	adding third party platforms	Selective	atform defined	Reference added and organized	Pass	Critical
8	Setups	Selective	Different variance provided	Modes can be changed and parallel working is supported	Pass	Critical
9	Report generation	Auto	Different selections	As selected data is provided	Pass	Critical

Table 7.1 Test Cases

CHAPTER 8

CONCLUSION

We can conclude that it the professional activities that are required to be performed for the interactive sourced workability is associated with the platform because we have utilize the platform in different types of modes and be found that each type of mode work property and in accordance to the references that we required. All types of perceptions that are required to be acknowledged are also supported as the preferences are provided with inbuilt form which was very much suitable. Any type of search that is required for the direct identity identification is also provided or we can say that if we have to search the related work profession according to the criteria or we want a collaboration based on understanding the profile of other users it can be done. All types of references are selected and utilized where we have also added different types of resources what we require and we found that the resources can be utilized accordingly. Each type of resource that is being acknowledged works properly with few settings which is very much comfortable for us to associate the type of activity we require.

CHAPTER 9

FUTURE ENHANCEMENT

Future references are important and we know that the platform will be provided on service so the new requirements that are required to be changed according to the time are considered. New perceptions can be added so that more flexibility and consistency can be maintained. Some of the important future appliances that can be acknowledged is listed as following-

Working report section can be added so that we can have more detailed control with the statistics related to the workability

More professional aspects of resources and tools can be added so that different types of project undertaken can be organized

We can also establish some communication based tools so that if required webinars and video conferencing can be formed

APPENDIX A

BIBLIOGRAPHY

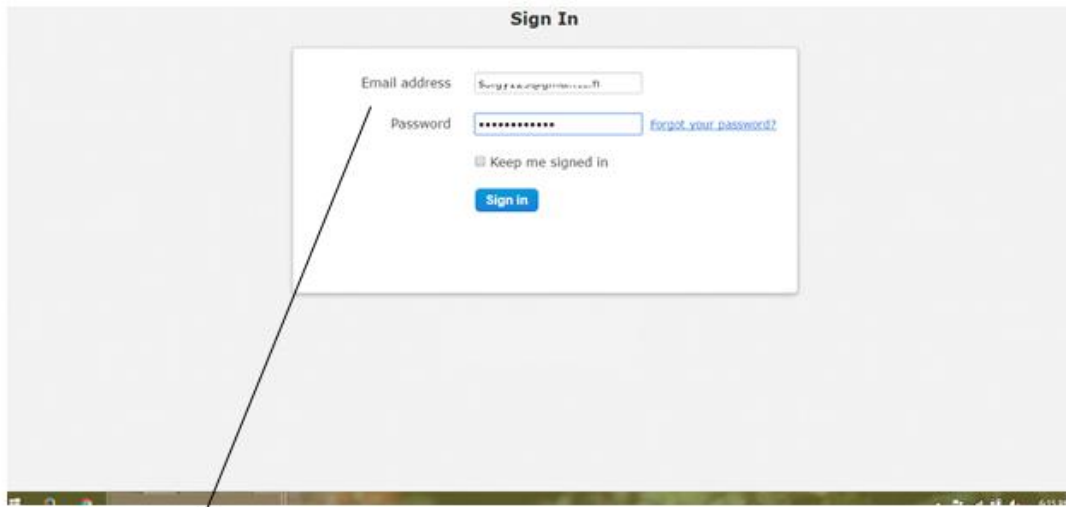
- "The Arrival of Java 14!". Oracle. March 17, 2020. Retrieved March 17, 2020.
- "Binstock, Andrew (May 20, 2015). "Java's 20 Years of Innovation". March 18, 2016.

Web referrals-

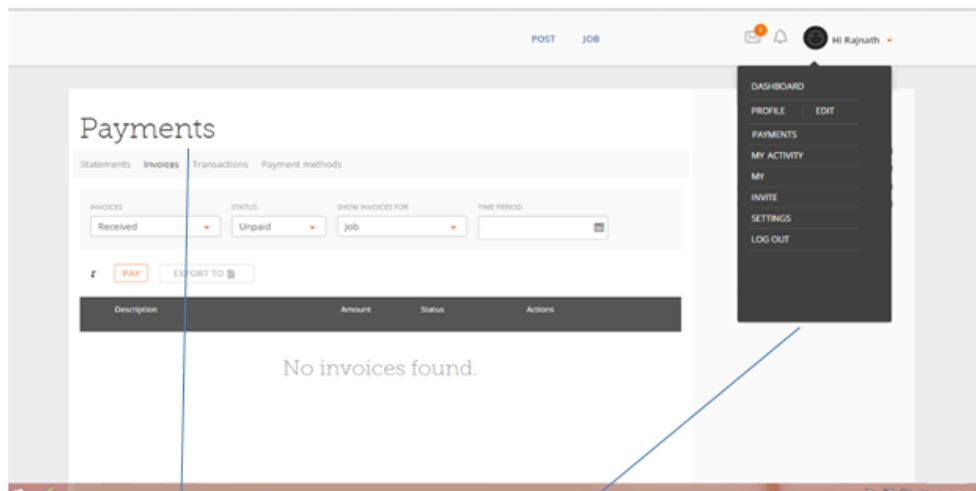
- www.wikipedia.com
- www.scribd.com
- www.microsoft.com
- www.google.com

APPENDIX B

USER MANUAL

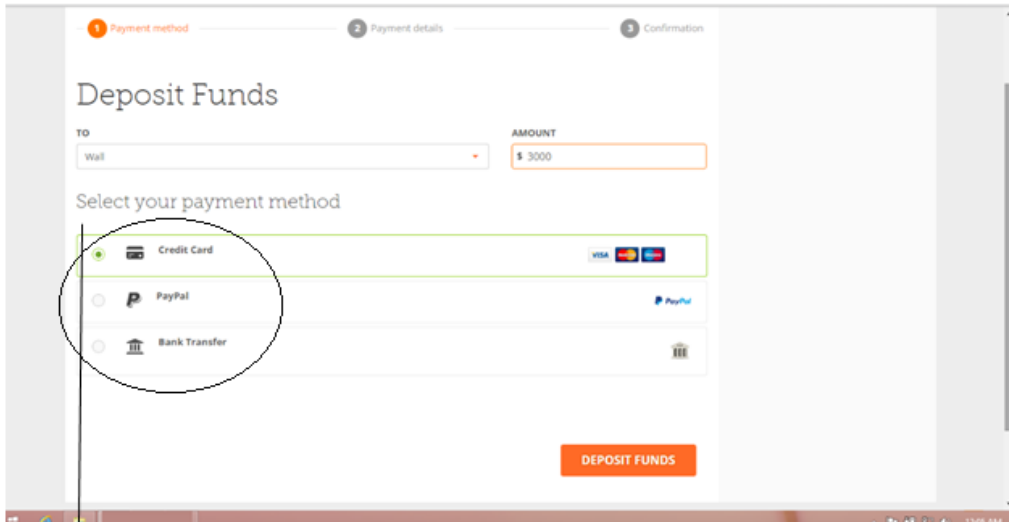


Login page for the user

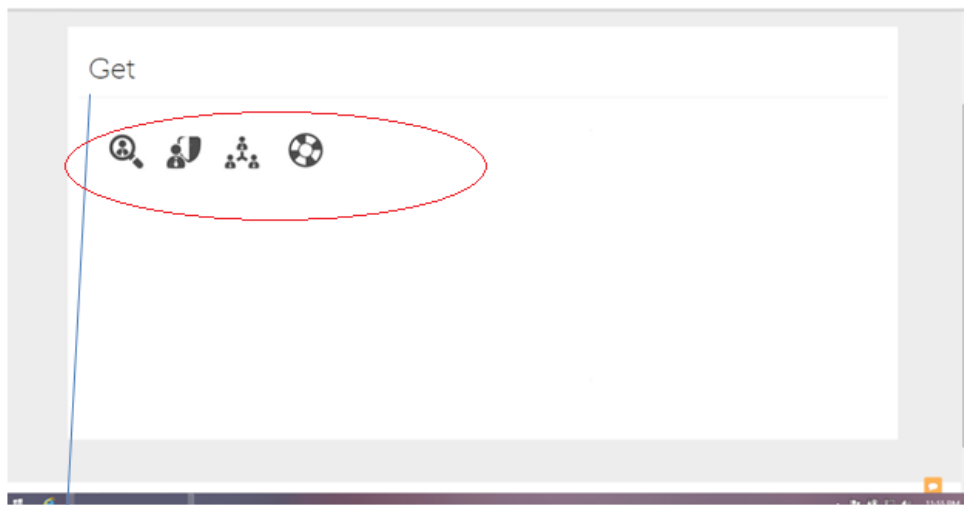


Financial methods available for the global working (payment methods, invoice generation, statements and transactions details tracker)

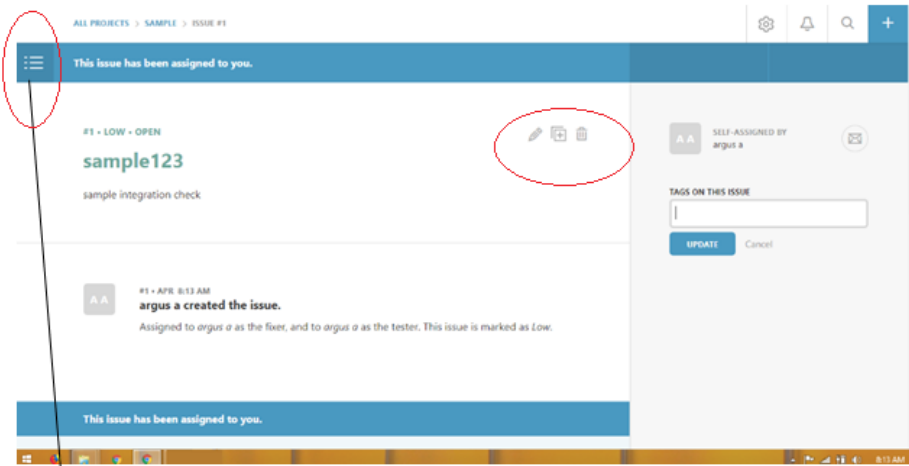
Account options shown (multiple dashboard, profile design, search, financial, tools selections, activity tracking)



Payment method selections shown

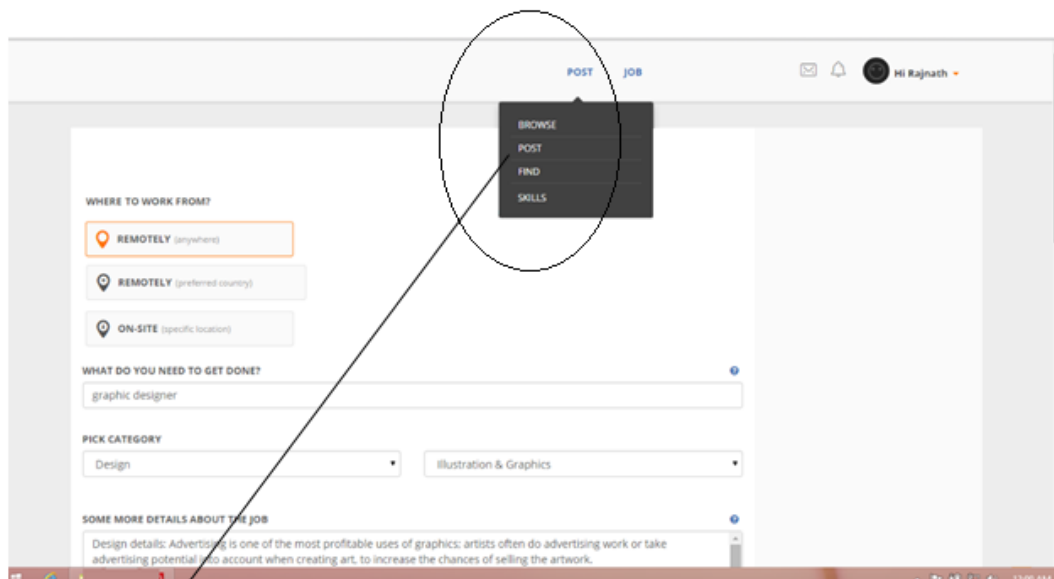


Selection of tools added for the working from account (MY)



Work assignments and operations can be undertaken

Post-2 more details added



Posting reference added with different details

EXPECTED BUDGET
Fixed Price 1000

VISIBILITY OF JOB POST
 PUBLIC
 PRIVATE

ESTIMATED JOB DURATION (optional)
1 - 6 months

GET TO KNOW
Select an Interview Question
+ Add new question
- Hide advanced options

POST JOB

Adding interview reference and budgets

VISIBILITY OF JOB POST
 PUBLIC
 PRIVATE

ESTIMATED JOB DURATION (optional)
1 - 6 months

GET TO KNOW
What are your greatest strengths?
Do you have any experience in the same industry?
+ Add new question
- Hide advanced options

POST JOB

Added more questions

Contact & invite

Contact

WHAT'S THE MESSAGE ABOUT?
graphic designer

INVITE