TheProject
Web Application

Software Design Document

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Software Designing Document

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1.Introduction

1.1 Purpose of this document

The Software Design Specification (SDS) document will provide an understanding of the system features to develop meaningful test cases and give useful feedback to the developers.

It focuses on specifying a high-level view of the architecture of our system, and on the interaction between the user and the system.

1.2 Scope of the development project

This document defines the the UI of the application. It contains all the features present for the project seekers and the project creators. It will also contain the features available to the panelists.

It includes information about the about the different classes, functions, methods and their implementations.

1.3 Definitions, acronyms, and abbreviations

a. SRS: Software Requirements Specification.

b. SDS: Software Design Specification

c. IEEE: Institutes of Electrics and Electronics Engineers

1.4 References

- IEEE SDS Template

1.5 Overview of document

This SDS is divided into seven sections with various sub-sections. The sections of the Software Design Document are:

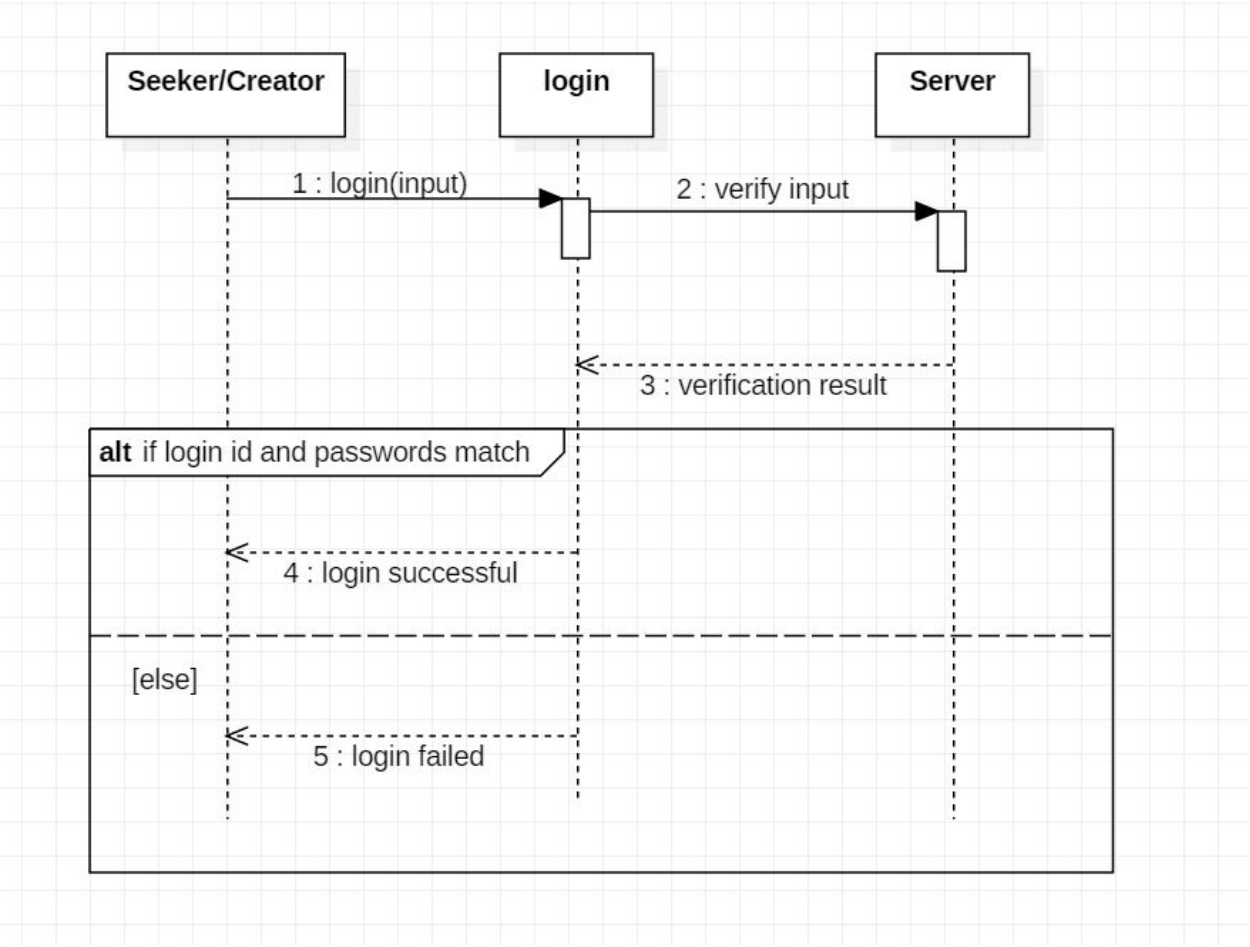
1. **Introduction**: It gives information about the document, its purpose, the scope of development of the project, some important definitions and abbreviations used in the document.
2. **Architecture Diagram**: It gives information about the overview of the components, modules, structure of the application and relationships and user interface issues.
3. **Logical Architecture**: It gives information about the Logical Architecture Description and Components of the application.

4. **Execution Architecture:** It gives information about the runtime environment, processes, deployment view of the application.
5. **Design Decisions and Trade-offs:** It gives information about the decisions taken and the reason as to why they were chosen over other alternatives.
6. **Pseudocode for components (not included in this document)**: It gives information about the pseudocode of the application, as the name indicates.
7. **Appendices**: It gives information about the subsidiary matter if any.

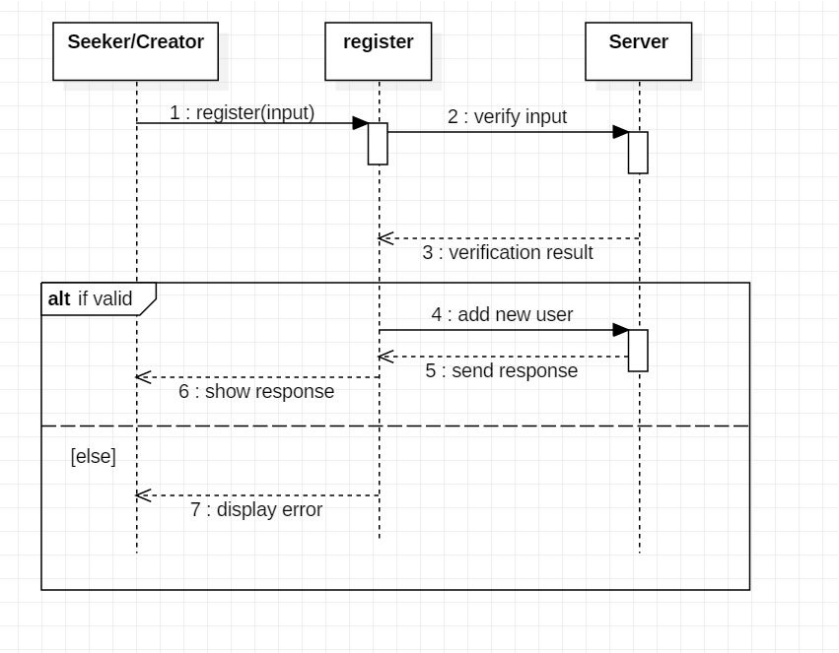
2. Logical Architecture (Class Diagram, Sequence Diagram, State Diagram)

2.1 Sequence Diagrams:

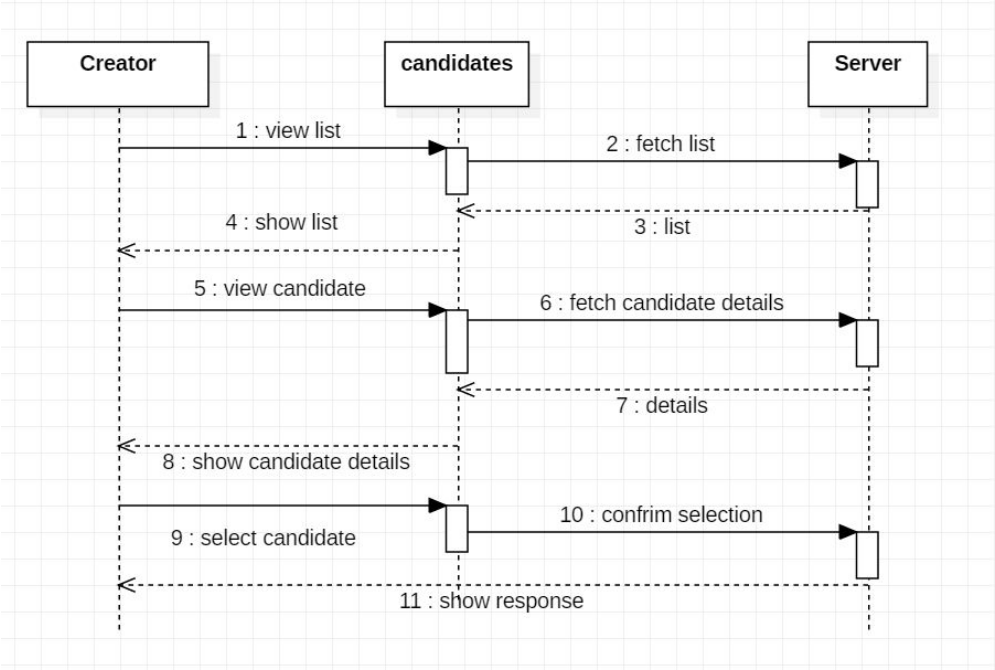
1.) Login Page (for project seeker,creator and panelist)



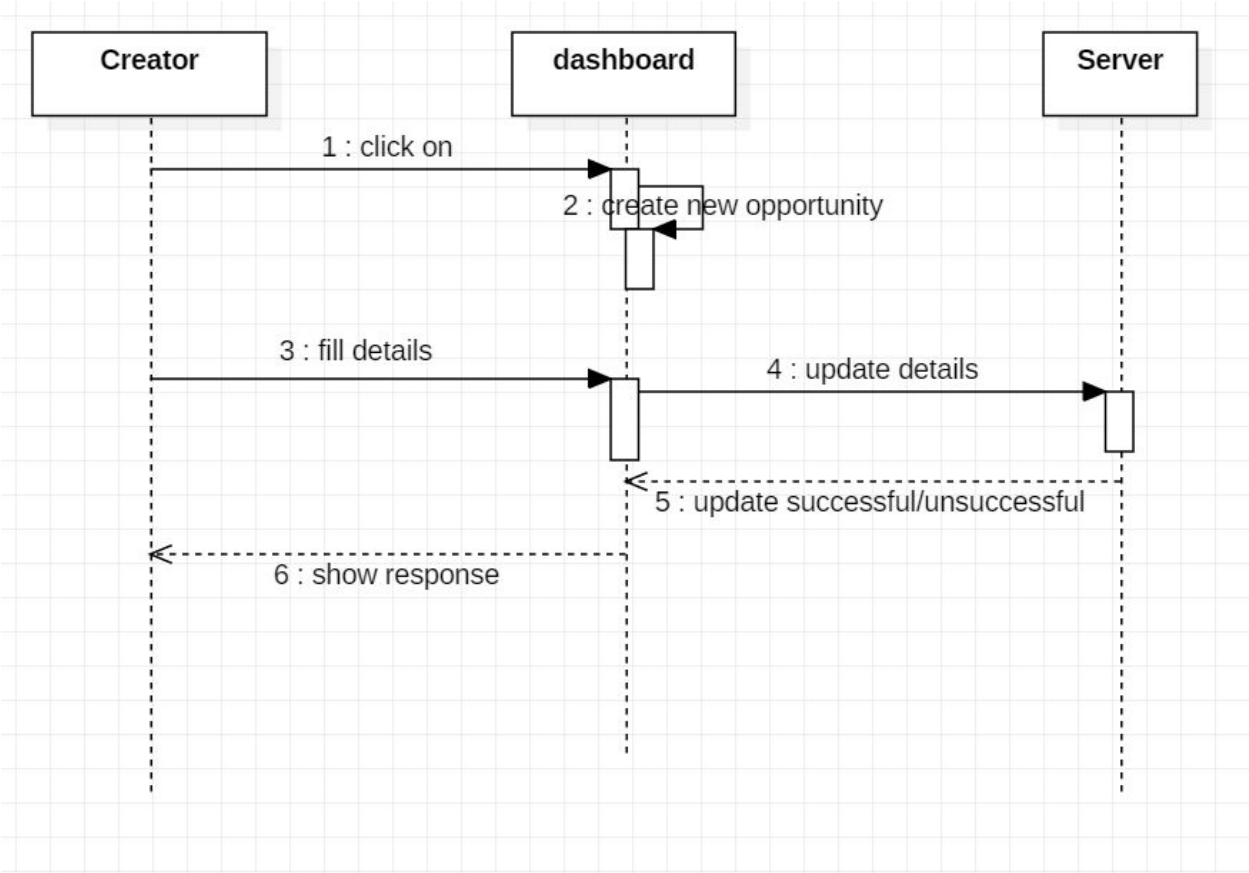
2.) Register Page (for project seeker,creator and panelist)



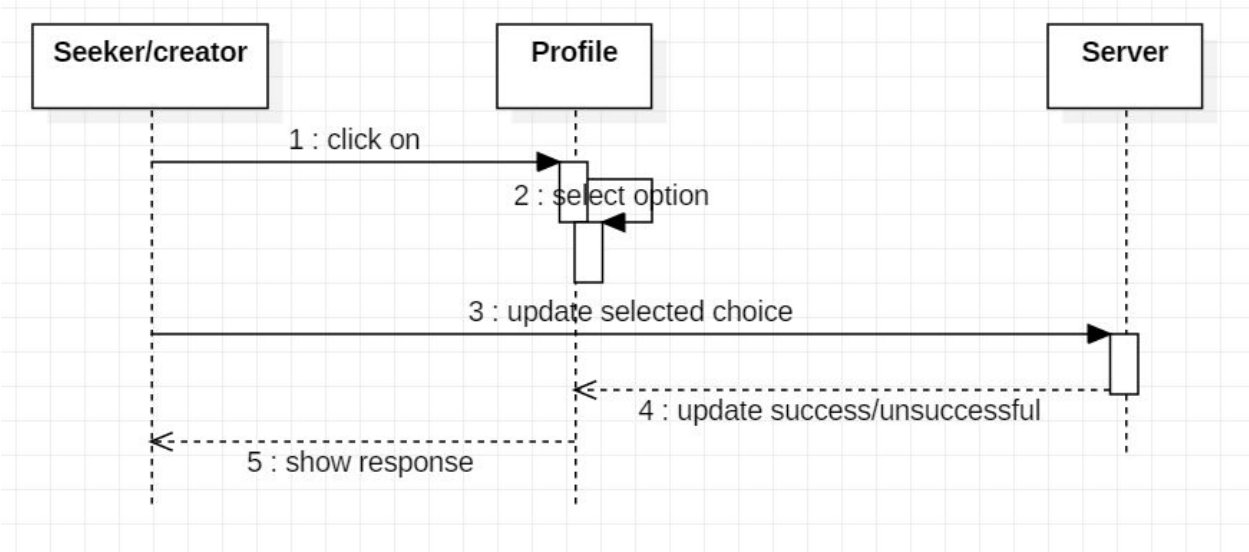
3.) Creator selecting the applicants



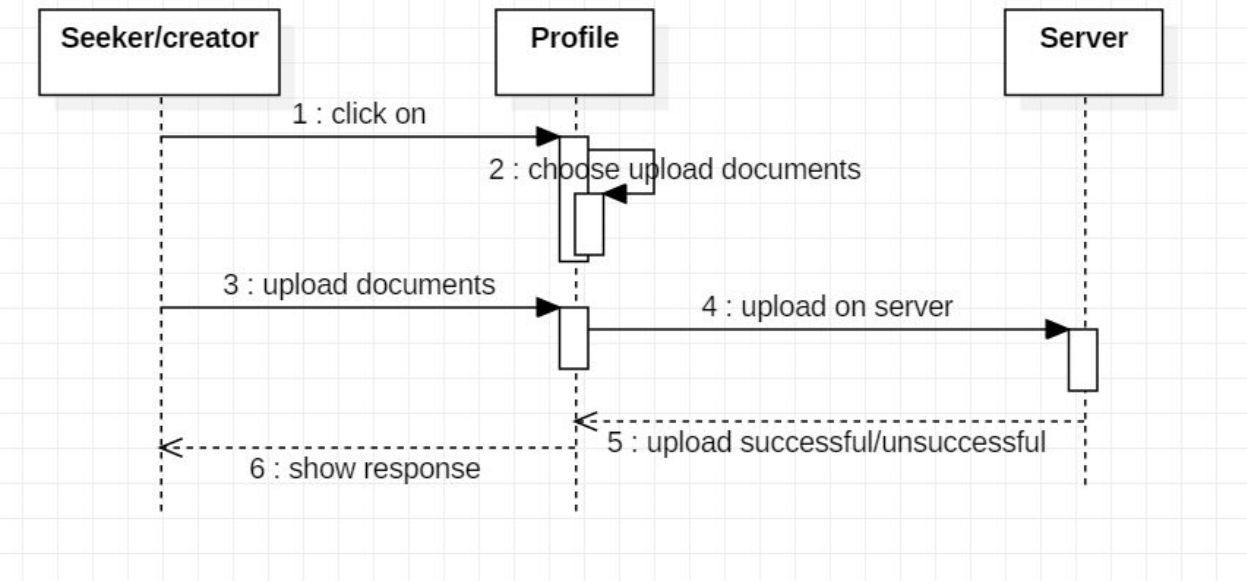
4.) Create New Opportunity



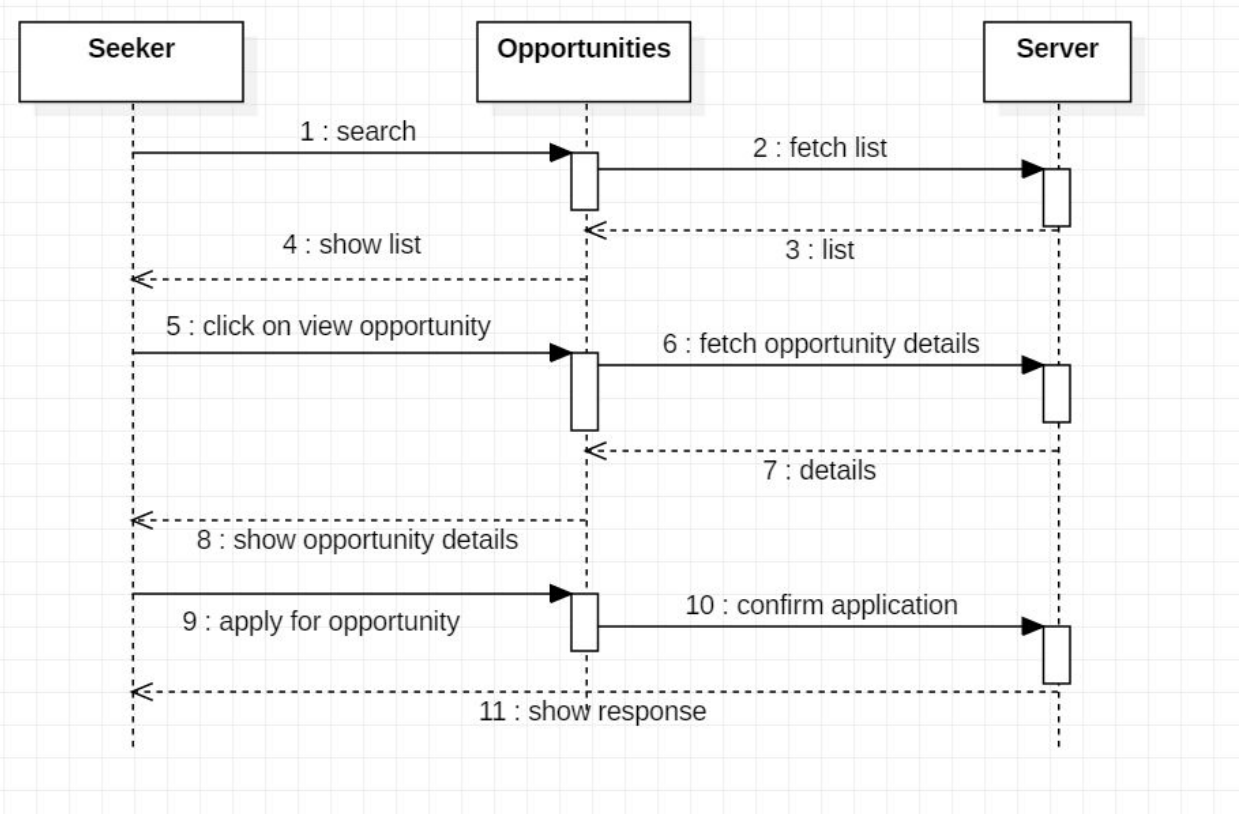
5.) Update profile for all



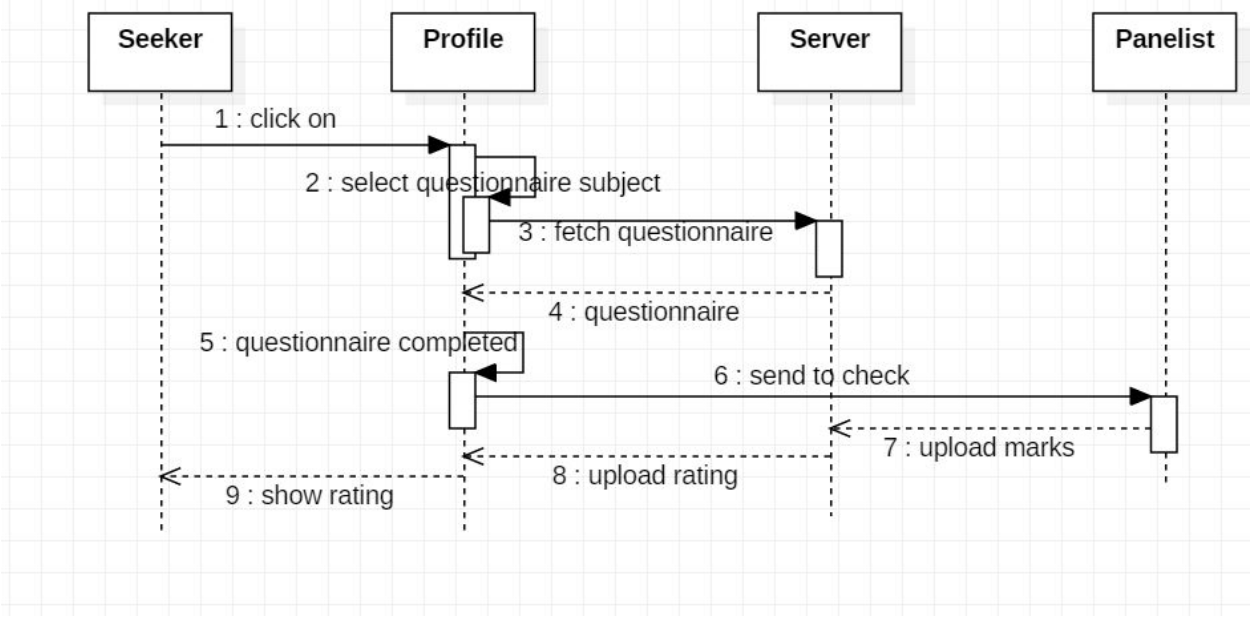
6.) Upload docs for all



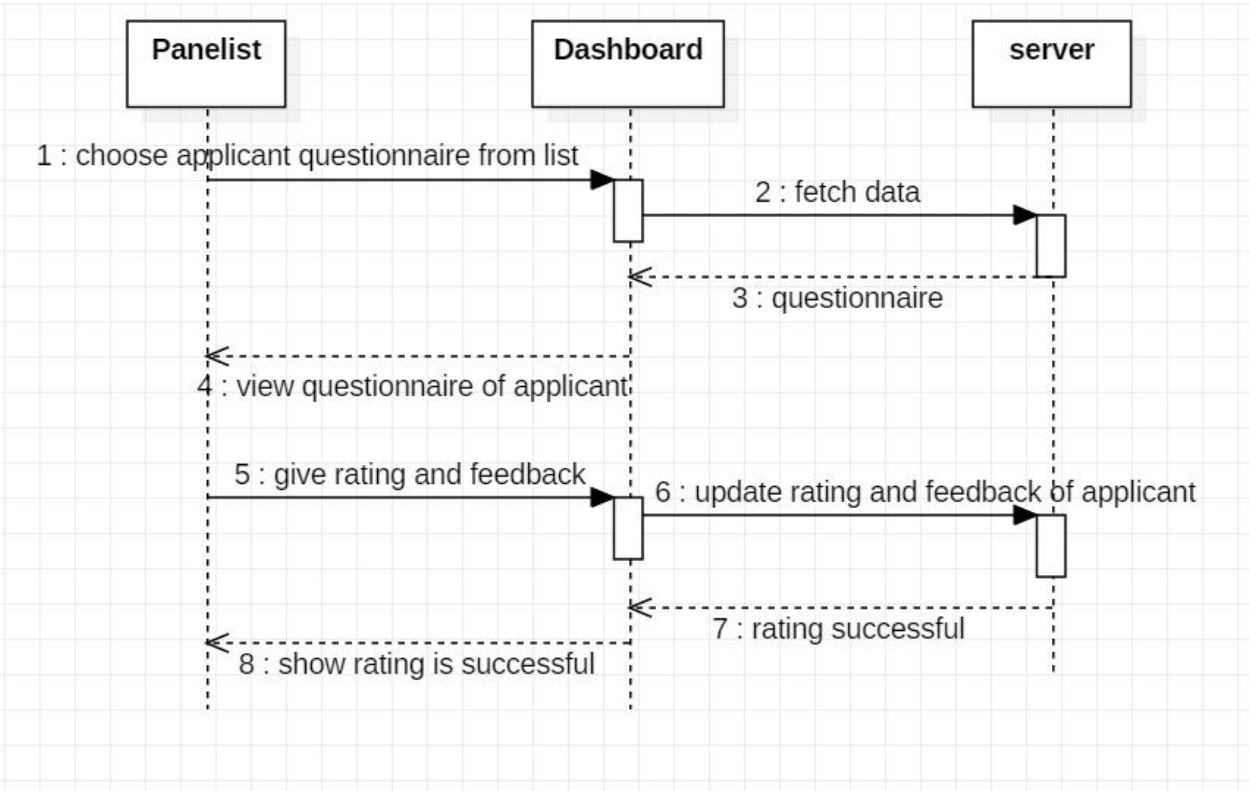
7.) View and apply opportunity for seekers



8.) Rating Process

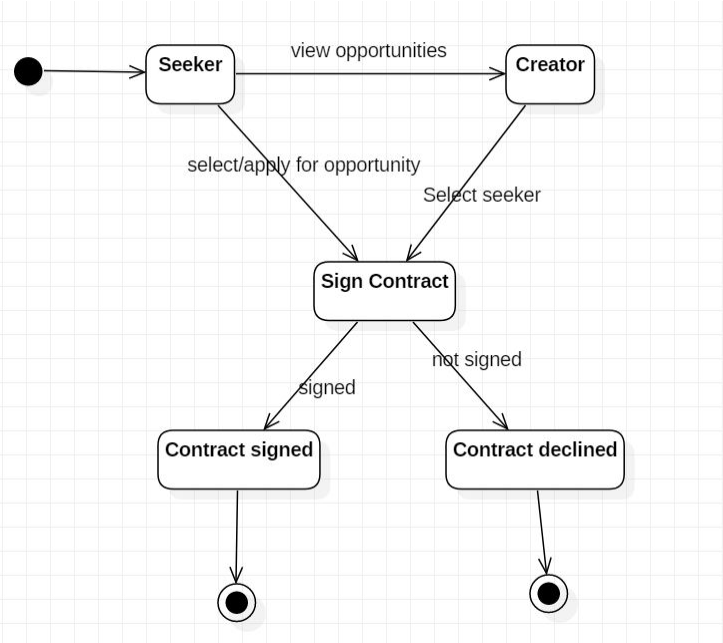


9.) Panelist Rating Seekers

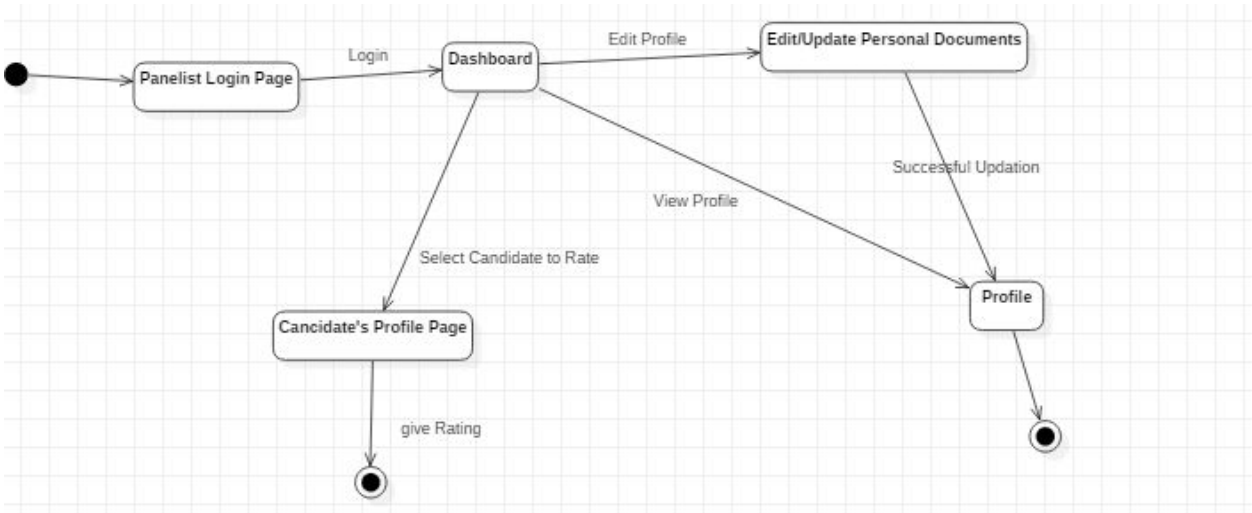


2.2 State Diagrams

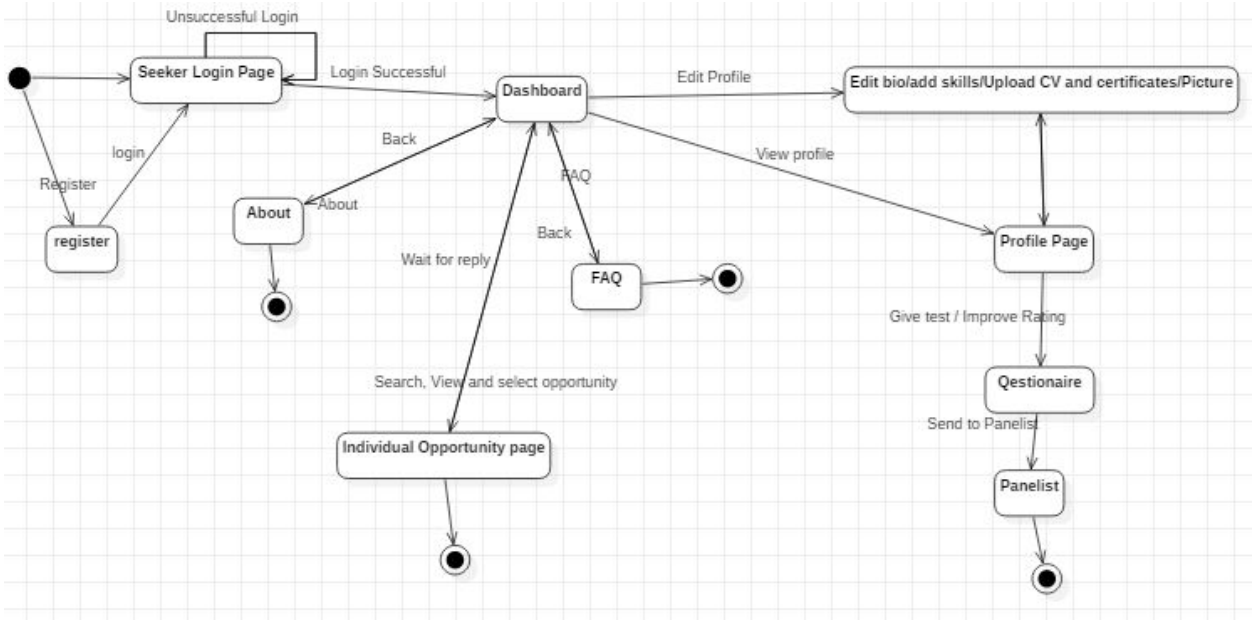
1.) Contract



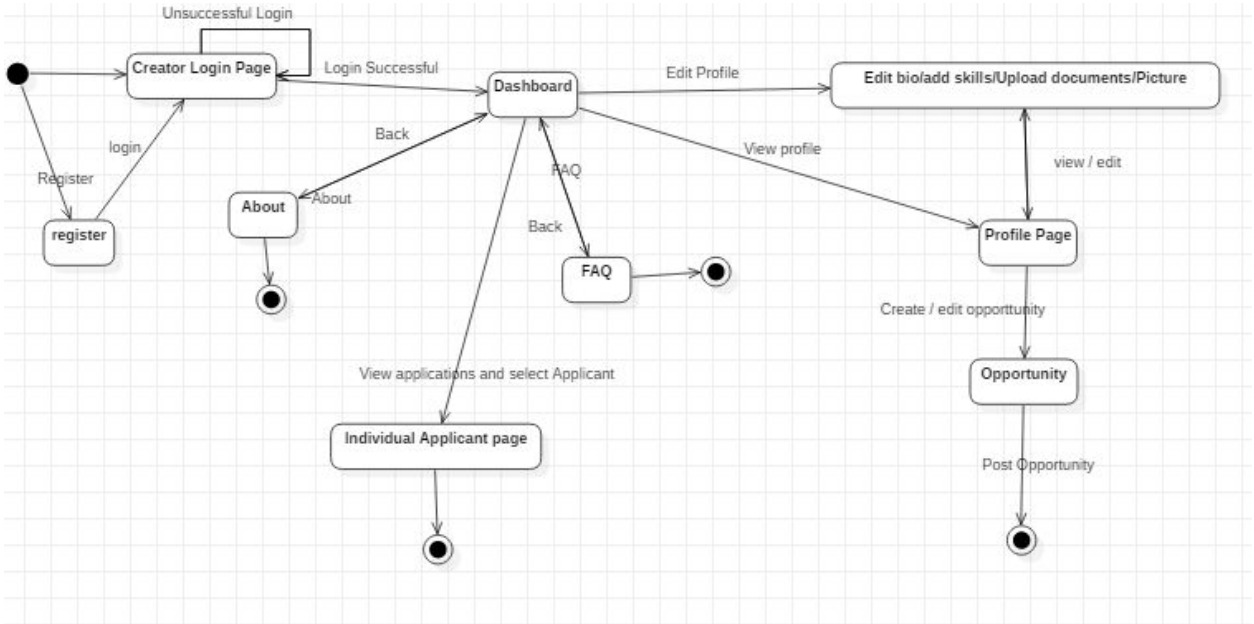
2.) Panelist State Diagram



3.) Seeker State Diagram



4.) Creator State Diagram



2.3) User interface issues

This section will address UI issues as they apply to the following hypothetical users of the application.

• User A is a 19-year-old male, a student of NIIT University, IInd year, who is quite familiar with using technology. He is of using most common computer applications.

In our application, we are using common user interface conventions like links between screens use ordinary and easy to understand descriptions like “Login”, ”Home”, ‘Upload CV” etc.

• User B is a 31-year-old female, A staff member of HR committee of NIIT technologies. She is even though comfortable using web applications, she has never used any such portals which helps in applying for jobs/internships. She may or may not acknowledge how this application is actually helpful.

Since the User B is not very much aware of how the technology works, it is imperative that she should be given clear instructions. Thus, the UI has been made in such a way that it grabs the attention of the user and also helps them throughout. On-click tasks have been made in such a manner so that the user (User B, in this case), have an ease in communication with seekers and provide other benefits to ease the process.

• User C is a 41-year-old female, A panelist chosen who works at IBM. She is comfortable using such applications and has used many such portals. She is very knowledged about how this application is actually helpful and its working.

Since the User C is so fond of such technologies , it is very easy for her to work this platform. We ensured that the UI made has least bugs or issues while using it.It grabs the attention of the user and also is fun to work with.

• Every type of user has their own dashboard for making it easier for them to perform their tasks. Since every user has a different role to play in the application, it is expected them to use different functions. Each type can login/register into their dashboard by choosing their role(seeker/creator/panelist).

3. Diagram Description

3.1 Sequence Diagram:

Arrow line signifies that an action is performed. Response is shown by dotted arrows. Self loops represents that the action performed is affecting itself.

3.1.1. Login Page: It allows Seeker to login with their mail domain and Creator to login with the username and password that are being registered in the database already.

3.1.2. Register Page: For first time users who does not hold any account on the portal they would be required to register themselves.

3.1.3. Creator selecting Applicants: This sequence diagram shows the sequence in which the creator selects the seekers on the portal after seekers have clicked the get in Touch Button.

3.1.4. Create New opportunity : It defines the sequence by which the creator will create new opportunities on the portal.

3.1.5. Update Profile : It demonstrates how all the users (seekers/creators/panelists) can update or edit their profiles.

3.1.6 Upload Documents for all : It defines the sequence in which Seeker and Creator will upload the required documents in order to publish their respective profile with valid documentations.

3.1.7. View and apply opportunity for seekers : This defines how the seekers can view and apply indifferent opportunities

3.1.8. Rating Process : in order to get started with applying for opportunities Seeker has to get a rating from our panelists, so this sequence diagram defines the same.

3.1.9. Panelist Rating Seekers : This provides the detailed process of how a panelist will review and rate the seekers.

3.2 State Diagram

3.2.1. Contract State Diagram : This State Diagram defines the states of system when the seeker applies for an opportunity and creator selects them then whether the contract is signed or not

3.2.2. Panelist State Diagram : This diagram represents the states achieved by the panelists while rating a candidate. Beginning from the login page till the rating of the candidates, it shows the states a panelist has to go through.

3.2.3. Seeker State Diagram : This diagram defines the sequential states of a seeker beginning from the login state till updating the profile or improving its rating. It also shows the states through which the seekers apply to different opportunities available.

3.2.4. Creator State Diagram : This diagram defines the states of the creator which they go through while selecting an appropriate candidate for their projects. Also, they go through different states while editing their profiles and updating them.

4. Design decisions and tradeoffs

The user interface and the designs for this software are kept simple so that any person can use this functionality easily.

5. Pseudo-Code for components

To Be Added In High Level Design Document

6. Appendices

Nill.