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**Formative Assignment 1**

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| Module Name | Application Implementation (Agile Project Management) |
| Course Name | Bachelor of Technology in Software Engineering |
| Assignment Title | Project Management Plan for implementing the community portal |

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| Learner Name | Francis Roel L. Abarca – bdse-0922-113 |

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| Learner declaration |
| I certify that the work submitted for this assignment is my own and research sources are fully acknowledged.  Student signature: Date: 7/18/2023 |

## Purpose of this assignment

To demonstrate your capabilities in the following areas:

* Preparing Requirement Specifications
* Developing Project Plan

## Submission Format

The submission is in the form of an individual written report with examples and illustrations. This should be written in a concise, formal academic style using single spacing and font size 12.You are required to make use of headings, paragraphs, and subsections as appropriate, and all work must be supported with research and referenced using the Harvard referencing system. Please also provide a bibliography using the Harvard referencing system.

## Submission file

Submission File Name format: Cohort Code \_Full Name\_Assignment Number

E.g.: AIM-1222A\_AliceTan\_A1.docx

## Scenario

## You have been approached by ‘ABC Jobs Pte Ltd’ as a website developer to develop a community portal for Software Developers. For this module the scope is to Design, Develop, Implement & Document the data-driven website using the framework Spring boot and react.

The Scope of the Project is to design a Community Portal Similar to Linkedin.com. Users will be able to register in the portal using the Registration Page. Users of the portal can search for other users using various parameters such as First Name, Last Name, Company Name, City & Country. Users will be able to view the Public Profile of users after searching them. The portal allow users to login, request for forgotten password and Update their profile information.

The overview of the project is as below

There are 2 types of users in this Community portal. They are

1. Software Programmer
2. Administrator

## Software Programmer should be able to perform following functions in the portal

## 1. Allow the programmers to register in the portal, show a thank you page & send a registration confirmation email.

## 2. Search & Find Other Programmers after login and view their profile.

## 3. Provide Login Page

## 4. Provide password retrieval functionality.

## 5. Update their Profile after logging in.

## Following Functionality is part of Database Design & Will be enhanced as features as required in the Capstone Project, Depending on time availability.

## 6. Send Messages to Each Other on the Portal

## 7. Create Threads & Post Replies to a Thread

## 8. Post Job Opportunities in the Portal

## Administrator should be able to perform following functions in the portal

## 1. Administer user data.

## 2. Send bulk email inviting programmers to register on the community portal

## The portal consist of the following Key pages (For Reference)

## 1. Community Portal Home Page

## 2. Registration Page

## 3. Registration Confirmation Page

## 4. Update Profile Page

## 5. Search Users Page

## 6. List Search Results

## 7. Public Profile Page

## 8. Registration Confirmation Email

## 9. Login Page

## 10. Forget Password Page

## 11. Design the Forget Password Confirmation Page

## Following Functionality is part of Database Design & Will be enhanced as features as required in the Capstone Project, Depending on time availability.

## 

## 12. Send Messages

## 13. Read Messages

## 14. Post in Message Board

## 15. List Message Board

## 16. Read A Thread

## 17. Post Job Opportunities

## 18. List Job Opportunities & Responses

## You will be required to:

* Write a brief requirement specification for the Community Portal.
* Prepare the detailed project plan to implement the Community Portal

## Evidence to exhibit

* Requirements Specification
* Project Plan

Task Wise Solutions:

1. **Requirement Specification**

The ABC Jobs community portal is a data-driven website designed for software developers, like Linkedin.com. The website will be developed using the ReactJS, Bootstrap, Spring Boot and MySQL tech stack.

The portal will have two types of users: Software Programmers and the Administrator who will have the following privileges:

* Software Programmers
  1. Register on the portal.
  2. Receive a confirmation email.
  3. View a Thank You Page.
  4. Search for other programmers using various parameters such as the first name, last name, company name, city, and country.
  5. View the public profile of other programmers after searching them.
  6. Log in to the portal and retrieve forgotten passwords.
  7. Update their profile information after logging in.

Additional functionality that may be added include:

1. Sending messages to other programmers.
2. Creating threads and posting replies to threads.
3. Posting job opportunities on the portal.

* Administrator
  + Administer user data.
  + Send bulk emails inviting programmers to register on the community portal.

The portal will consist of the following key pages:

1. Community Portal Home Page
2. Registration Page
3. Registration Confirmation Page
4. Update Profile Page
5. Search Users Page
6. List Search Results
7. Public Profile Page
8. Registration Confirmation Email
9. Login Page
10. Forget Password Page
11. Forget Password Confirmation Page

Additional functionality that may be added include:

1. Send Messages
2. Read Messages
3. Post in Message Board
4. List Message Board
5. Read a Thread
6. Post Job Opportunities
7. List Job Opportunities & Responses
8. **Project Plan**
9. **Design Phase**
   * During this phase, the design of the Community Portal will be finalized. This includes creating wireframes and mock-ups for each page of the website, as well as finalizing the layout and user interface. The design team will work closely with the development team to ensure that the design is feasible and can be implemented using the chosen tech stack (ReactJS, Bootstrap, Spring Boot, MySQL).
10. **Development Phase**

* During this phase, the website will be developed using the ReactJS, Bootstrap, Spring Boot, MySQL tech stack. The development team will work on implementing the functionality outlined in the requirement specification, including user registration, search, profile management, and administrator functions. The development team will also work on integrating the website with a MySQL database to store data.

1. **Testing Phase**

* During this phase, the website will be tested to ensure that all functionality is working as intended. This includes conducting unit tests, integration tests and user acceptance tests.

1. **Implementation Phase**

* During this phase, the website will be deployed and made available to users. This includes setting up hosting and configuring the website on a server. The implementation team will also conduct final tests to ensure that the website is functioning correctly after deployment.

1. **Documentation Phase**

* During this phase, the documentation for the website is created. This includes creating user manuals to help end-users understand how to use the website, as well as technical documentation for future maintenance and development.