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**Formative Assignment 2**

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| Module Name | Application Implementation (Agile Project Management) |
| Course Name | Bachelor of Technology in Software Engineering |
| Assignment Title | Phase Test Plan to test the community portal |

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| Learner Name |  |

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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: |

## Purpose of this assignment

To demonstrate your capabilities in the following areas:

* Preparing Test Plan for a software application

## 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\_A2.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.**

1. Send Messages to Each Other on the Portal
2. Create Threads & Post Replies to a Thread
3. Post Job Opportunities in the Portal

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

## Administer user data.

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

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

## Community Portal Home Page

## Registration Page

## Registration Confirmation Page (with Registration Confirmation Email)

## Login Page

## Reset Password Page

## Reset Password Confirmation Page

## Update Profile Page

## Search Users Page

## List Search Results

## Public Profile Page

## *Pages for enhancement (depending on time availability)*

## *Send Messages*

## *Read Messages*

## *Post thread in Message Board*

## *List threads in Message Board*

## *Read A Thread*

## *List Job Opportunities & Responses*

## *Post Job Opportunities*

1. *Apply for Jobs*

You will be required to:

Create a testing plan document for the community portal project. The document should include the following sections:

1. Introduction: Provide an overview of the project and its objectives.
2. Test Scope: Define the scope of testing, including the specific functionalities and features to be tested.
3. Test Strategy: Describe the overall approach and strategy for testing the community portal.
4. Test Environment: Specify the hardware, software, and testing tools required for the testing process.
5. \*Test Schedule: Create a schedule that outlines the timeline for different testing activities.
6. \*Test Cases: Develop a set of test cases that cover different scenarios and functionalities of the community portal.
7. \*Test Data: Identify the test data required for executing the test cases.
8. \*Test Execution: Explain how the test cases will be executed, including the test environment setup and execution process.
9. Defect Reporting: Define the process for reporting and tracking defects encountered during testing.
10. Risk Assessment: Identify potential risks and mitigation strategies for the testing process.
11. Resource Allocation: Determine the resources needed for testing, including the number of testers and their roles.
12. Test Deliverables: Specify the expected deliverables from the testing process, such as test reports and documentation.
13. Approval: Include a section for approval and review of the testing plan.

*\* Items e – h (above) / 5 – 8 (in the template below) will be covered in Assignment 3*

## Evidence to exhibit

* Phase Test Plan

1. Introduction
   1. Project Overview

ABC Job Portal overview…

* 1. Objectives.

The community portal is for Software Developers to interact among themselves. As part of this project we need to plan types of testing, create a phase test plan and schedule them optimally and execute the test scripts. Verify the results after testing.

1. Test Scope

Login ,reg. etc

1. Test Strategy

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| **1.  Functional Testing - UAT test cases** | | |  |  | |
| **Test Id** | **Test Scenario** | **Test Objective** | **Expected Result** | |
| 1 | TS001 | Identify whether user can login to the portal with registered credentials. | Upon attempt of authentication, users will be authenticated to the portal and given authorization of member or user as default. | |
| 2 | TS002 | Identify whether user can successfully register or Not | Upon registration, they will be able to use the registered credentials to authenticate to the User to System | |
| 3 | TS003 | Identify whether user can successfully add result | Upon authentication, users will be able to Add Result details. | |
| 4 | TS004 |  |  | |
| 5 | TS005 |  |  | |

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| **2.  Compatibility - Cross-browser testing / responsiveness** | | | |  | |
| **Test Id** | **Test Scenario** | **Test Objective** | **Expected Result** | |
| 6 | TS006 | Identify if the Result portal works as intended on Google Chrome. | The look and feel are working as intended on Google Chrome. | |
| 7 | TS007 | Identify if the Result portal works as intended on Microsoft Edge. | The look and feel are working as intended on Microsoft Edge. | |
| 8 | TS008 | Identify if the result portal works as intended on Mozilla Firefox. | The look and feel are working as intended on Mozilla Firefox. | |

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| **3. Performance Efficiency - Load Testing/ Stress testing** | | | |  | |
| **Test Id** | **Test Scenario** | **Test Objective** | **Expected Result** | |
| 9 | TS009 | Identify if index load time is within 10 – 15 | The index page will load in less than 15 seconds | |
| second mark |

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| 6.  Portability - Multi platforms (different platforms, different devices) | | | | |
| **Test Id** | **Test Scenario** | **Test Objective** | **Expected Result** |
| 14 | TS014 | Identify whether the portal functionality works as intended using various platforms and devices. | The portal should have a responsive look and feel which scales down to mobile view. |

1. Test Environment
   1. Hardware
      1. Processor:
      2. RAM:
      3. HDD:
   2. Software
      1. OS
      2. Spring boot
      3. VSCODE
   3. Testing Tools

**Phase Test Plan**

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| --- | --- | --- | --- | --- | --- |
| No | Task | Start | End | Person Days | Resource |
| 1 | Prepare Test Plan | 17-7-2023 |  |  |  |
| 2 | Review Test Plan |  |  |  |  |
| 3 | Prepare Test Scripts |  |  |  |  |
| 4 | Review Test Scripts |  |  |  |  |
| 5 | Set up Test Environment |  |  |  |  |
| 6 | Maintain Test Environment |  |  |  |  |
| 7 | Establish Test Procedures |  |  |  |  |
| 8 | Promote Software from Development to Test Environment |  |  |  |  |
| 9 | Execute Testing/Record Faults |  |  |  |  |
| 10 | Re-execute Tests as Needed |  |  |  |  |
| 11 | Provide Support/Resolve Faults |  |  |  |  |
| 12 | Promote Software from Test to Development Environment |  |  |  |  |
| 13 | Certify Application for Release to Beta Test Group |  | 24-7-2023 |  |  |

1. \*Test Schedule
2. \*Test Cases
3. \*Test Data
4. \*Test Execution
   1. Test Environment Setup
   2. Test Execution Process
5. Defect Reporting
6. Risk Assessment

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| **1.  Functional Testing - UAT test cases** | | |  | |  | |  |  | |
| **Test Id** | **Test Scenario** | **Test Objective** | **Pro** | **Risk** | | **Expected Result** | | |
| 1 | TS001 | Identify whether user can login to the portal with registered credentials. | High | May login without details | | Upon attempt of authentication, users will be authenticated to the portal and given authorization of member or user as default. | | |
| 2 | TS002 | Identify whether user can successfully register or Not | Medium |  | | Upon registration, they will be able to use the registered credentials to authenticate to the User to System | | |
| 3 | TS003 | Identify whether user can successfully add result | Low |  | | Upon authentication, users will be able to Add Result details. | | |
| 4 | TS004 |  |  |  | |  | | |
| 5 | TS005 |  |  |  | |  | | |

1. Resource Allocation

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| Task | Resource Name |
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1. Test Deliverables
2. Approval