Project Brief

Project title	Plan, Schedule, Test Community Portal
Module Name	NICF-Capstone Project using Java
Course Name	Advanced Certificate in Infocomm Technology (Software and Applications)
Project Start date	
Project Submission Date	

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1. **Purpose of this Project**

   This Project is used for Summative Assessment of student in the "NICF-Capstone Project using Java" of the NICF Course "Advanced Certificate in Infocomm Technology (Software and Applications)"

   In this project you must design, plan & test the community portal website you have developed in module 5 "NICF-Web Development Foundations".

2. **Project Pre-requisites**

   You must have completed the community portal modular projects as part of Module 3, Module 4 & Module 5, as you will use the following deliverables.
   1. Module 3 (UI Frameworks) – Bootstrap based HTML, images & javascript files developed for community portal.
   2. Module 4 (Database Design and Implementation) – Implemented database of community portal.
   3. Module 5 (Web Development Foundations) – Community portal developed using Java Spring.

   You should have access to the Project Brief, Project Report template and Project Presentation template and should understand how to use the templates

   You have access to the Project Technical Environment

   You should understand the number of milestones and what are the milestones to be presented for each of the Tutoring Session

3. **Project Outcomes & Deliverables**

   You should perform all the tasks in the Project Task List and prepare the following during the project:
   - Briefly explain different types of testing which you will undertake
   - Test Schedule Document
   - Phase test plan
   - Execute test scripts and verify the results
   - Prepare a Project Report as per pre-defined template
   - Prepare a Project Presentation as per pre-defined template
   - Prepare a Testing Document

4. **Project Definition**

   You have been approached by 'ABC Jobs Pte Ltd' as a website developer to test their community portal for Software Developers. The community portal was developed as part of Module 3, Module 4, Module 5.

   The Scope of the Project is to plan, create, schedule and execute tests.

4.1 Overview of the project

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.

4.2 **Scope of the Project**

Perform the following activities

1. Briefly explain 3 types of testing you will be carrying out.
2. Create 3 documents which explain steps to execute the 3 types of testing
3. Explain briefly how you will schedule the test.
4. Create a Phase Test Plan for each of the testing type
5. Execute the tests and provide the results.

5.   Project Task List

You should perform the following tasks as part of the Project:

Task 1 (A1)
   1. Write a brief requirement specification for the Community Portal.
   2. Include it as part of the Project Report

Task 2 (K1)

   1. Briefly explain different types of testing, how they will help to create a better system.
   2. Include it as part of Project Presentation.

Task 3 (K2, A2)

   1. Propose relevant tests suitable for the Project Scenario
   2. Include it as part of Project Presentation

Task 4 (K3, A3)

   1. Write briefly on optimal scheduling times for different tests
   2. Prepare a schedule for execution of tests
   3. Include it as part of Project Presentation.

Task 5 (K4, A4)

1. Develop a Phase Test Plan for testing the application
2. Include it as part of Project Report

Task 6 (K5, A5)

1. Execute the tests created, take appropriate screen capture & include it as part of Project Presentation.
2. Present the results of testing and include it as part of Project Presentation

6. Project Evidences

Evidence checklist	Summary of evidence required by student which has to be incorporated in the Project Report
Task 1	Write a brief requirements specification for community portal. Include it in Project Report.
Task 2	Explain different types of testing and their utility. Include it as part of Project Presentation.
Task 3	Propose the relevant tests suitable for the project scenario and include it as part of Project Presentation.
Task 4	Write briefly on project scheduling times and prepare a schedule for execution of tests and include it in project Presentation
Task 5	Develop a phase test plan for testing the application and include it as part of Project Report.
Task 6	Execute the tests and provide the reports as part of Project Presentation.

7. Project Guidelines

You should follow the below guidelines while implementing the Project:
- Implement the project in the technical environment specified in the Project brief
- Follow the format specified for Project Report and Project Presentation

- The project report and presentation should be submitted at least 2 days before the date of Capstone Assessment date
- Present the Milestones in every Tutoring Session and seek the Tutor's feedback and review. Incorporate the feedback in your project.
- Attach all project evidences for each milestone as part of your Project report

8. Project Assumptions

You can make following assumptions while implementing the project:
- Tests include Load Testing, Stress Testing, Unit Testing & UAT Testing

9. Project Technical Environment

The student should perform the project in the following environment
- Java with Spring
- Apache Tomcat
- MySQL Database
- phpMyAdmin / mysql Client
- Eclipse IDE
- Notepad / Textpad
- Microsoft Word
- Microsoft PowerPoint