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CSD 460 Capstone – Module 2.1 (rough)

Bellevue University

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**Technical Design Document (TDD) - Proviso Project**

**1. Introduction**

**1.1 Purpose**

The purpose of this Technical Design Document (TDD) is to outline the requirements and technical design for the Proviso project. This document will provide a structured approach to fulfill the project's objectives and deliverables.

**1.2 Terminology**

* TDD: Technical Design Document
* HTML/CSS: HyperText Markup Language and Cascading Style Sheets
* MySQL: A relational database management system
* Session: A temporary storage space to maintain user information during their visit to the website

**1.3 User Personas**

In this section, we will define three user personas who will interact with the Proviso project. Understanding these personas is crucial for crafting user stories and designing a system that meets their needs.

**1.3.1 User Persona 1: Administrator**

* Name: Sarah
* Role: Administrator
* Background: Sarah is responsible for managing user accounts, permissions, and system configurations. She needs a system that allows her to efficiently perform administrative tasks.

**1.3.2 User Persona 2: Data Analyst**

* Name: Alex
* Role: Data Analyst
* Background: Alex is responsible for analyzing data and generating reports. He needs a system that provides easy access to data, tools for analysis, and report generation capabilities.

**1.3.3 User Persona 3: End User**

* + Name: David
  + Role: End User
  + Background: David is a regular user of the system. He needs a user-friendly interface for accessing information and performing common tasks.

**1.4 User Stories**

In this section, we will define user stories that capture the key features and functionalities that our Proviso project should deliver. Each user story includes a title, description, and story points.

**1.4.1 User Story 1: Administrator Account Management**

Description: As an administrator (Sarah), I want the ability to manage user accounts efficiently. This includes creating, updating, and deactivating user accounts, as well as setting and modifying user permissions.

**Story Points: 8**

**1.4.2 User Story 2: System Configuration**

Description: As an administrator (Sarah), I need to configure system settings such as email notifications, password policy, and other system parameters to ensure the system functions according to our organization's requirements.

**Story Points: 5**

**1.4.3 User Story 3: User Access Validation**

Description: As an administrator (Sarah), I want to validate and grant user access based on their registration and login information, ensuring that only authorized users can access restricted features.

**Story Points: 4**

**User Persona 2: Data Analyst (Alex)**

**1.4.4 User Story 4: Data Access for Analysts**

Description: As a data analyst (Alex), I need access to data and databases for analysis. I expect the system to provide a secure and user-friendly interface for retrieving data relevant to my analysis tasks.

**Story Points: 6**

**1.4.5 User Story 5: Data Analysis Tools**

Description: As a data analyst (Alex), I require tools for data analysis such as querying, filtering, and generating reports. The system should integrate these features to streamline my data analysis workflow.

**Story Points: 7**

**1.4.6 User Story 6: Report Generation**

Description: As a data analyst (Alex), I want the capability to generate reports based on the data I analyze. These reports should be customizable and exportable in various formats for easy sharing and presentation.

**Story Points: 8**

**User Persona 3: End User (David)**

**1.4.7 User Story 7: User-Friendly Interface**

Description: As an end user (David), I need the website to have a user-friendly interface for easily accessing information and performing common tasks like exploring lodge details and available activities.

**Story Points: 4**

**1.4.8 User Story 8: Lodge Reservation**

Description: As an end user (David), I want the ability to reserve a lodge efficiently by selecting room size, specifying the number of guests, and choosing check-in/check-out dates. The system should provide a clear summary and confirmation process.

**Story Points: 7**

**1.4.9 User Story 9: Reservation Lookup**

Description: As an end user (David), I would like to look up my previous reservations with ease. The system should provide a straightforward search feature using reservation ID or email address and display a summary of my past reservations.

**Story Points: 5**

**1.5 Work Estimations (ToDo List)**

The following tasks need to be added to the team Kanban board for development and testing. Please delegate these tasks to the appropriate team members:

**1. Task 1: User Account Management**

- Assigned to: [Team Member Name]

- Story: User Story 1

**2. Task 2: Data Access and Analysis Features**

- Assigned to: [Team Member Name]

- Story: User Story 2

**3. Task 3: User-Friendly Interface Design**

- Assigned to: [Team Member Name]

- Story: User Story 3

**4. Task 4: Data Import and Export Functionality**

- Assigned to: [Team Member Name]

- Story: User Story 4

**5. Task 5: Report Generation Module**

- Assigned to: [Team Member Name]

- Story: User Story 5

**6. Task 6: Data Security Implementation**

- Assigned to: [Team Member Name]

- Story: User Story 6

**7. Task 7: Mobile Accessibility Enhancement**

- Assigned to: [Team Member Name]

- Story: User Story 7

**8. Task 8: Integration with External Systems**

- Assigned to: [Team Member Name]

- Story: User Story 8

**9. Task 9: User Training and Support Resources**

- Assigned to: [Team Member Name]

- Story: User Story 9

**Design**

**2.1 Prototypes**

**2.2 ERD**

**QA Testing**

**3.1 QA Test Plan**

|  |  |
| --- | --- |
| **Project:** Todo Business Requirements | Andrew Danielson |
| **Course:** **CSD 380 DevOps.** | CSD 380 Module 4.2 |
| **Description:** Module 4 Test Case’s |  |
| **Date:** 20230828 |  |

To complete the test case plan, fill out the information for Project, Course, Description and Date in the header below.

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[**Test Name** 6](#_Toc148343215)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test 1 | **Test Name** | | | |
|  | **Test Objective:** | **Developer:**  **Date tested:** | **Peer tester:**  **Date tested:** <yyyy/mm/dd> | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail**  **+ Screenshot** |
| 1 |  |  | **pass/fail** | <yes/no> |
| 2 |  |  | **pass/fail** | <yes/no> |
| **Comments** | Comments should be substantive; this means there should be at least 2-3 well-structured sentences with constructive feedback. | | | |