Name: Flourence V. Quizon

Course: BSCPE 3A

**Development Plan Documentation**

**Project Overview**

The Course Management System is designed to modernize the management of courses, student enrollments, grades, and faculty assignments. It aims to simplify administrative processes, provide a user-friendly interface for students and faculty, and ensure secure data handling.

**Core Features**

* **Course Management:** Enable administrators to add, edit, and delete courses.
* **Student Management:** Store students records, including personal details and academic history.
* **Faculty Management:** Assign course loads to faculty members.
* **Basic Authentication System:** Secure user login with role-based access.
* **Grade Recording and Computation:** Generate grade reports for individual students and courses.
* **Reporting System:** Generate reports for grades, class lists, and faculty loads.

**Architecture Design**

* **Frontend:** SPA framework
* **Backend:** RESTful APIs
* **Database:** Relational database with normalized schema

**Technical Documentation**

**Branching Strategy**

* **Feature/develop:** Main branch for integrating complete features.
* **Feature/basic\_authentication\_system:** for implementing the authentication module.
* **Feature/course\_management:** for adding course management functionalities.
* **Feature/faculty\_management:** for building faculty management capabilities.
* **Feature/grade\_recording\_adn\_computation:** for grade computation and recording.

**Project Timeline**

|  |  |
| --- | --- |
| **Week** | **Task** |
| 1 | Repository setup, requirement gathering |
| 2 | Design architecture and database schema |
| 3 | implement core features (course, student, and faculty management) |
| 4 | Test all modules and ferine system |
| 5 | Finalize and deploy system |

**Team Roles and Responsibilities Document**

**Team Members**

* **Project Manager:** Define project scope and manage timelines.
* **Frontend Developer:** Build the user interface for the system.
* **Backend Developer:** Develop and maintain APIs and backend logic.
* **Database Administrator:** Design and manage the database.
* **QA Tester:** Test the system and report bugs.

**Responsibilities**

* **Project Manager:** Ensure timely delivery and proper communication
* **Frontend Developer:**  Create response and accessible UI.
* **Backend Developer:** Ensure secure and efficient server-side operations.
* **Database Administrator:** Manage data integrity and backups.
* **QA Tester:** Conduct testing and create detailed test reports.