



IT Department
IT-350 Web Technologies

Coursework Assignment (Group Project)

Fall Semester
Academic year 2021/22
Lecturer: Rebin M. Ahmed

| | |
|-----------------------------|----------|
| Table of Contents | |
| Introduction | 2 |
| Overview | 2 |
| Project Description | 2 |
| characteristics: | 3 |
| Team (Group) Setup | 4 |
| Requirements | 4 |
| Coursework Due Dates | 5 |
| Evaluation Factors | 5 |



Introduction

This document defines the goals and requirements for the IT-350 Web Technologies coursework group project during the fall semester of the academic year 2021/22, for the 4th-grade students in IT Department.



Overview

The aim of this assignment is to let students appreciate the concepts of web technologies and to practice its main processes and activities. The assignment particularly focuses on practicing web development using Laravel as a framework and experiencing a software version control system, additionally, the assignment aims to strengthen problem-solving skills a sense of collaboration, and teamwork skills amongst the students.



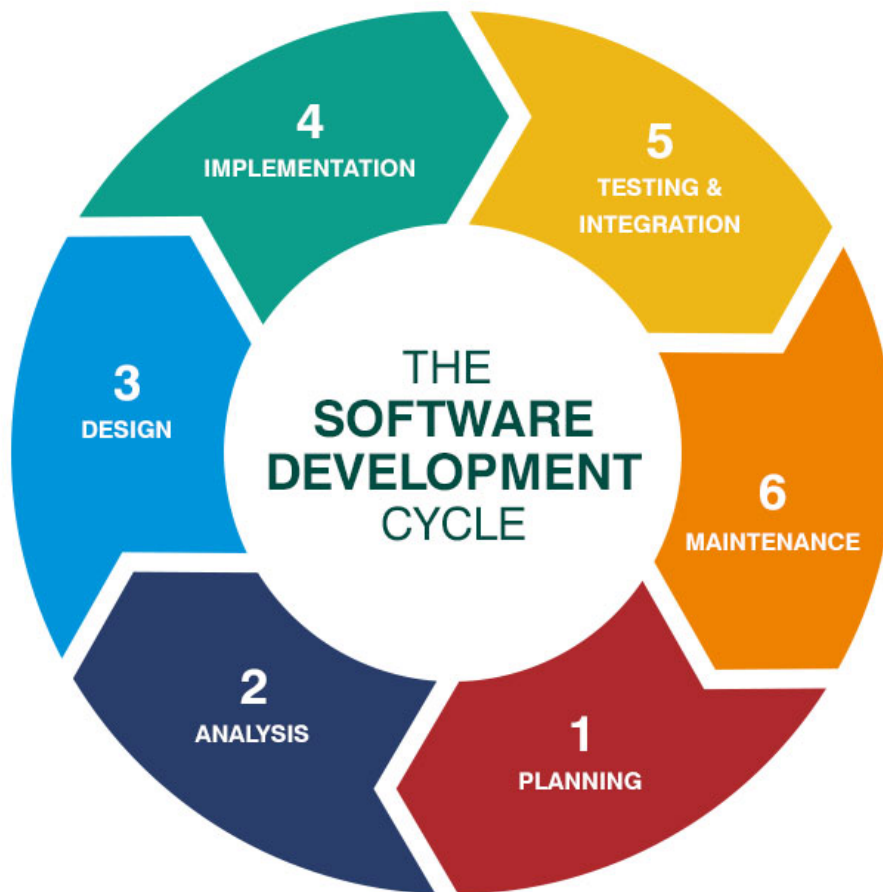
Project Description

The aim of this coursework is to let the students practice the processes of web development.

The students are assigned to teams of 3 members.

Each team is required to develop a web application, using **Laravel** as a backend framework and Mysql as a Database system, teams are encouraged to use extra technologies and techniques that we may not study during the course like VueJs, LiveWire, Jetstream, Tailwind... etc.

Each team is required to present a complete cycle of software development(Planning, Analysis, Design, Implementation, Testing and Integration, Maintenance), and present them at the submission deadline as a presentation.



Software Development Lifecycle

Characteristics:

- To be a complete web application.
- To be multiuser.
- To have authentication and authorization.
- To have two types of users (for example Admin, and Guest).
- The admin can write edit, and delete his/her resources.
- The application should have at least 5 models.
- The application should have at least 5 Controllers.
- To have a responsive and modern front-end designed with bootstrap or similar frameworks.
- The complete code of the system must be available.



Team (Group) Setup

1. Each team will have 3 members.
2. The team setup must be accomplished by the end of November.
3. The Team shall select among themselves a Project Manager.
4. The Project Manager (PM) is responsible for the management of the team in conducting their project to do the current coursework in time and will receive a bonus mark.



Requirements

1. All members should participate in the project by playing their roles.
2. The teams should provide a presentation, explaining the development process, challenges, problems, and features of the application, It should be thorough and must cover all aspects of the project.
3. The team should submit a complete web application built with **Laravel** and has all the characteristics specified in section 3 (Project Description), before the submission deadline.



Coursework Due Dates

Submission:

Saturday, 1st January 2022 by 23:55 PM

Presentation:

2nd - 7th January 2022

Late submission will not be accepted, please use your time wisely.

The assignment should be compressed and uploaded to the SIS.



Evaluation Factors

Coursework would be assessed based on the following scheme:

| No | Item | Mark |
|----|--|------|
| 1 | Presentation and Questions(Individual) | 70% |
| 2 | Final Software(Group) | 30% |
| 3 | Bonuses | 10% |

The mark for presentation and questions is individually given, and the mark for the final software (30%) will be given to all the group members.