

## **Semester Project Description**

This document describes semester project for the course of Software Engineering. Students should work on a project in teams of 3 students. The objective of the project is to take the knowledge and background that you are learning this semester and put it to good use in a novel and creative way.

You will have five main milestones or deliverables.

1. You must form your team and settle on a topic, and prepare a project proposal.
2. You need to get approval for your project proposal.
3. Once the proposal gets accepted you need to start working on your project step by step by executing the fundamental software development activities.
4. You will give a demonstration of your project to the instructor and TA during the last week of classes. Therefore, you need to prepare a power point presentation to describe you project, and also need demonstration of your working project.
5. Finally, you must have to submit complete report, and working project (implemented in some programming language) to the GCR.

Three types of projects are allowed:

- Web based applications
- Mobile applications
- Gaming applications

**Note:** *To develop aforementioned applications you must need to adopt latest tools, and development technologies, such as Java, .NET framework, PHP, Flutter etc. C or C++ based applications are not allowed.*

You have already studied the course of Software Design and Analysis (SDA), and developed a semester project for the SDA course. In this semester, you project must be different from the one that you have already created for the SDA course. Therefore, in your proposal you must have to explicitly declare what type of application you have developed in SDA course.

In your proposal and project report you must need to mention about the software process model and a clear justification for adopting that particular model.

The proposal must also contain a list of various activities/tasks to be accomplish with their respective deadlines i.e., you also need to create a timeline/schedule for the task/activities.

You must have to implement at-least 20 features for your semester project (*for example: login page in one feature*). Therefore, while gathering requirement you must have to collect sufficient requirements.

Plagiarism is not allowed at all, if plagiarism is found in any proposal or project report then students will get zero score. The group leader will submit the proposal, project report, and working application. Individual submissions are not required. Cross section groups are not allowed as well. Individual group member participation is highly required. Therefore, you must need to reflect the contribution of each group member in your proposal and project report.

Remember to mention the names of each group member and the title of your project in the proposal and final report.

***Deadline to submit your proposal 19<sup>th</sup> February 2023, 11:59 PM.***