

## **Object Oriented Analysis and Design using Java (UE20CS352)**

### **Mini Project**

#### **Evaluation Policy:**

- 1: Presentation of the project will be in team based.
- 2: Each student will be evaluated individually.

#### **Marks Distribution:**

Analysis and Design Models	2 marks
Use of MVC Architecture Pattern	1 marks
Use of Design Principles and Patterns (at least 1 each per team member) *	2 marks
Presentation/ Demo/ Explaining the code	3 marks
<b>Total</b>	<b>8 marks</b>

\* - 3 Design patterns and 3 design principles in total for the project for a 3 member team

#### **Complexity of the project:**

- A typical team size of 3 members would be required to implement at least 3 major features/use cases and 3 minor features/use cases (1 of each type per team member)
- There should be equal participation of each student in a team.

#### **Important Aspects to be followed:**

- The implementation should be done using any JAVA technologies. That must include a MVC framework (like Java Spring Framework) along with **optional** Frontend frameworks like Java Swing or JavaFx. However, only Desktop and Web applications are accepted. Mobile applications are not accepted.
- Each student should own a use case completely and implement (that is, avoid situation where a team member will own only UI, another will own Backend etc.)
- The implemented use cases should be merged into a single application.
- The data related to the project should be persisted in any database of your choice

#### **Submission:**

- Report report document (PDF) containing
  - o Title page with course details, project title, team member details; PESU template to be used
  - o Problem statement (synopsis etc.)
  - o Models (Use Case and Class Models)
  - o Architecture Patterns, Design Principles and Design Patterns used along with a short description which elaborated how that is applied to your problem domain
  - o Github link to the Code base (Repository should be public and accessible to all)
  - o Individual contributions of the team members
  - o Screenshots with input values populated and output shown (Use white background screens)

#### **Important Dates:**

1. Submission of project report document (PDF) – 20.04.2023
2. Team presentation – 24.04.2023 to 28.04.2023