

East West University Department of Computer Science and Engineering

CSE 110: Object Oriented Programming Course Instructor: Dr. Mohammad Rezwanul Huq

CSE110: Project Description

Objectives

Objectives of the term project are as follows:

- a. Students would practice the programming constructs which were taught and demonstrated in the lab to develop a Java-based application.
- b. Students would explore new technology and programming constructs in Java which would be learned by themselves and could successfully apply to develop an application.
- c. Students are expected to work in a team environment.
- d. Students would deliver the design of the system using class diagrams as such they were in a real software developing firm.
- e. Students would prepare a professionally-written report on term project.

Scopes of the Project

Students may choose to develop a Java-based application as their term project from different topics. A few of them has been listed below:

- 1. Information System Implementation
 - a. Student Information System
 - b. Result Processing System
 - c. University Information System
 - d. Library Management System
 - e. Hotel Management System
 - f. Hospital Management System
 - g. Vehicle Pool Management System
 - h. Payroll Management System
 - i. Railway/Bus Reservation System
 - i. Inventory Management System
 - k. Salary Management System
 - 1. Car Sales System
 - m. Departmental Store Management System and so on
 - * It would be highly appreciated and encouraged that students would use an underlying Database to build these systems using Java Database Connectivity (JDBC).
- 2. 2D Game Development
 - a. Image Puzzle
 - b. Snake
 - c. Breakout
 - d. Tetris
 - e. Minesweeper and so on

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- 3. Tools Development
 - a. Development of a simple Chat Engine
 - b. Development of a simple Word Processor
 - c. Development of a simple Paint Application
 - d. Development of a simple Media Player and so on

What to do next?

a. *Team Formation*: A team will be formed by maximum three students (two students in only one group). There would be exactly one student in a team from each of the pot as given below:

Pot A	Mobasshir, Meharaj, Mahfuza, Bayzid, Saif, Rakibul, Samir
Pot B	Shakib, Ahsan, Shamsuzzaman, Farhana, Simonta, Sazeebul, Mehrab
Pot C	Farhan, Shahtab, Mursalin, Ikramul, Bijoy, Azizul, Momdu

- b. Submission of Concept Note: After forming teams, each team must submit a concept note that contains a one-page high-level summary about their project along with the name of the team members. Hardcopy must be submitted by 20 March 2019.
- **c.** Submission of Initial Class Diagram: Each team must submit a preliminary class diagram, representing all the classes and their interaction within the application. This class diagram can be changed later as required. **Hardcopy must be submitted by 27 March 2019.**
- d. Preliminary Demonstration of the Application: Each team must demonstrate the preliminary version (beta version) of their application during the lab on **03 April 2019**.
- e. Final Demonstration and Report Submission: Complete code and report must be submitted. **Demonstration and Report submission date will be announced later.**

Marking Rubrics:

Marking Criteria	Points
Appropriate use of Classes and Objects	2
2. Use of concepts such as Association, Inheritance, Abstract class and Interface	2
3. Use of Files	1
4. Use of Graphics such as JavaFX, Swing etc.	1
5. Use of Advanced Concepts such as Generics, Multi-threading, JDBC etc.	1
6. Ability to work in a team	1
7. Report Writing	3
Total	11

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