Object Oriented Programming Laboratory

Laboratory Project

Introduction

The lab project is a design, implementation and test of a Java application in OOP for a real or simulated setting.

A team will be formed to go through the project phases:

Particulars	Due Date
Phase 1: Initial Proposal	Jun. 19
Phase 2: Project Proposal	Jun. 26
Phase 3: Project/Document Review	July 10
Phase 4: Demonstration	July 24
Project Submission	July 31

Phase 1 Initial Proposal

1. With your team, pick a theme, identify a project, give a short description and enumerate features.
   If there is a similar project in the net or in publications, differentiate your proposal.
   Use the "SCAMPER" technique to generate ideas.
2. Post your proposed project title and description in the chat room (no duplicates).
3. While waiting for the approval of your proposal, learn to use GitHub <github.com>.
   Create a public repository in GitHub with the name prefixed with your team name oo3<Team>Project e.g. oo3RedProject, oo3WWomanProject, oo3ApolloProject. Email the GitHub url.
4. Upon approval, edit README.md in the git repository to contain the information in item 1.

Phase 2 Project Proposal

1. Update the files in the repository as the project progresses. All project related files should be in the GitHub repository.
2. Upload your final project proposal in GitHub.

Phase 3 Review

Review files and documents in the repository.

Phase 4 Presentation

Prepare:

1. A project presention and demo (10min). Upload this in youtube. Include the youtube link in the README.md

2. Poster.

Project Proposal

Suggested Proposal outline:

Cover Page
Include title: Provide a concise title that reflects its main focus or purpose, lab section, student's names, signature, and date.

I. Introduction
Give an overview of the project. Explain why it is important or relevant.
State the goals and objectives of your project. Describe the problem/s to be solved and the functionalities you are trying to achieve.
Define the scope of your project, include features, functionalities and constraints.

II. Methodology
How are you going to do it? Describe the approach you plan to take to address the problem or implement the functionality. Include all Java pillars in developing the project.
Outline the major phases or milestones of your project.

III. Project Description
Provide an overview of the proposed architecture or design of your project. Describe the major components and relevant diagrams (IPO, flowchart and uml).

IV. Deliverables
Present a Gantt chart of your deliverables. Indicate who does what and when the deliverables will be accomplished.
Describe the document that you plan to provide together with your project, such as user manual, technical document, or API documentation.

V. Evaluation
Define the criteria for evaluating your project. What metrics or measures will you use to asses its performance or effectiveness.

VI. Conclusion
Summarize the significance of your project and how it addresses a specific need.

VII. References
Bibliographic listing of reference and sources of materials for the project.

I will highly appreciate your comments and suggestions to improve this material.

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