Project specification:

SEN 2241: Object Oriented Analysis Design and Implementation (OOADI)

Instructor: Tekoh Palma

Project Presentation Period: 1st Week of June

Description:

This document is meant to guide students of OOADI towards the realization of their projects which will count as their final Exams with a weight of 70%.

At the end of this Project, students are expected to come up with:

- A comprehensive Report of their project Hard and soft copies (word or pdf)
 (20%)
- A full functional Application (Desktop, Mobile or Web) (60%)
- A Presentation accompanied by a power point slide (Not more than 20slides) of their project (20%)

NB: The final presentation date of Projects will be announced by the lecturer (1st Week of June 2024)

Phase 1: Team Organization and workflow management (1week)

During this phase of the project students are expected to:

- Organize themselves to highly cross-functional **scrum teams** of Six (6) team members
- Apply the skills on team organization and workflow management learned in class
- Each team is expected to have a GitHub repository for their project with each member actively contributing to it.

NB: Grading will be based on each members commit history

Phase 2: Project Selection and Requirements Analysis Phase (1week)

During this phase students are expected to:

- Define clearly the Requirements of their system
- Analyse the feasibility of the various requirements
- Come up with a product backlog for their system

Phase 3: Object Oriented Design (UML) (1 Week)

Task: Design and Documentation of UML Diagrams to meet your system specifications

- Comprehensive use case diagram
- Class diagram
- A Sample Object Diagram of your system
- At least 5 sequence diagrams depicting different aspects of your system

Phase 4: Implementation (4 Weeks)

Using any technology stack of your choice, Build, Build and Build More!

Phase 5: Deployment and Presentation (1 Week)

During this closing phase of your project each group is expected to

- Package and make their desktop available for distribution
- As for web applications, deploy them to be readily available online
- Mobile Applications should be deployed to their appropriate market Place (Google Play store, Appstore, Windows store etc)
- (NB: Web applications not deployed will be graded on **50**% of the overall score)

PROJECT REPORT TEMPLATE

Course Code/Course Title	
Group Number	
Project Topic	
Link to GitHub Repository	
Group Leader	

Group Information

SN	Member's Name	Registration Number	Team Role
1			
2			
3			
4			
5			
6			

Note:

- The following format at minimum must be used for the Project Presentation (This is just a guide but you are not limited to it, you are allowed to expand it further)

CHAPTER ONE: INTRODUCTION

- General Introduction
- * Aim and Objectives
- Problem Statement

CHAPTER TWO: LITERATURE REVIEW

- ❖ Software Development Methodologies
- Comparison between different Software Development Methodologies
- * Reason for the choice of Scrum Methodology

- General review of related concepts with respect to your chosen project
- * Review of related literature with respect to your chosen project

CHAPTER THREE: METHODOLOGY AND MATERIALS

- Research Methodology
- ❖ System Requirements (Functional and Non-Functional)
- System Design
 - *Architecture of your system (HLD)*
 - UML Diagrams
- Application of scrum
 - Team organization
 - Workflow management
 - Conflict Resolution
 - Challenges encounter and how you overcame them
- ❖ Scrum Artifacts (Product backlog and Sprint backlog)
- ❖ A Test Case document
- Proposed Algorithms
- Materials and technologies used (briefly list the name of the technology or material and its role in realizing your system)

CHAPTER THREE: RESULTS AND DISCUSSIONS

- Screenshots of various application scenarios
- Screenshots of various API Request/Response
- **t**Etc..

CHAPTER FOUR: RECOMMENDATIONS AND CONCLUSION

In not more than 3 paragraphs summarize what your team has been able to achieve, the difficulties you encountered and recommendation for further studies

Best of Luck! - Tekoh Palma