## Object Oriented Programming Term Project

Session: Fall 2022 Group of 2

# Proposal and UML deadline

24-01-2023 Time 11:00 pm

(Soft form) on portal Project submission date Coding submission

29-01-2023

Time 11:59 pm



Faculty of Information Technology University of Central Punjab Lahore, Pakistan

## Contents

Session: Fall 2022	1
PROJECT ABSTRACT	
Introduction:	
Objectives of your project:	
Advantages:	3
Project Instructions:	3
Project Working:	3
UML Diagram	
OIVIE DIUGIUM	

#### **PROJECT ABSTRACT**

An abstract is an outline/brief summary of your paper and your whole project. It should have an intro, body and conclusion. It is a well-developed paragraph, should be exact in wording, and must be understandable to a wide audience. Abstracts should be no more than 250 words, formatted in Microsoft Word, and single-spaced, using size 12 Times New Roman font.

#### **Introduction:**

A project introduction is a paragraph or paragraphs explaining what a project is about. It should include key details about the project that give the reader enough information to understand the purpose and scope of the project.

### **Objectives of your project:**

Project objectives are a way of organizing your project and setting goals for it. They help you to focus on what you're trying to achieve and make sure that the project is going in the right direction. There are two main types of objectives: functional and non-functional. Functional objectives are those that relate to the project's actual outcome.

Non-functional objectives are those that aim to improve the team's working environment or skillset or provide support for the project management process.

### **Advantages:**

Write all the advantages of your project

### **Project Instructions:**

- 1. Please do not use cin in setter and cout in getter
- 2. Indent your code.
- 3. Comment your code.
- 4. Use meaningful variable names.
- 5. Plan your code carefully on a piece of paper before you implement it.
- 6. Do all the classes in multiple files(separate interface and implementation).
- 7. void main() is not allowed. Use int main()
- 8. You are not allowed to use any built-in functions
- 9. You are required to follow the naming conventions as follow:
- 10. Variables: firstName; (no underscores allowed)
- 11. Function: getName(); (no underscores allowed)
- 12. ClassName: BankAccount (no underscores allowed)

#### **Project Working:**

• Briefly describe the working of project

Note: Every class should have a parameterized constructor with default values and a copy constructor. Also write setter and getter for every private variable.

#### You also need to implement the concept of member initializer list.

#### Overload the following operators in your program:

- To take input, overload the insertion operator >>
- To display information, overload the extraction operator <<</li>

## **UML Diagram**

Your project must have minimum following relations two compositions relation one aggregation relation three inheritance relation (single, multiple, multilevel) Polymorphism relation Abstract class