

American International University-Bangladesh (AIUB)  
**Department of Computer Science  
Faculty of Science &Technology (FST)  
Fall 19\_20**

**Section:   
Group No:**

**PROJECT TITLE**

A software Engineering project submitted

By

*Student Name (Student ID)(Git Account)*

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The project will be evaluated for the following Course Outcomes

|  |  |
| --- | --- |
| CO3: Choose appropriate software engineering model in a software development environment | Total Marks |
|  |
| Project Background Analysis (needs, goal, benefits, etc.) [5Marks] |  |
| Appropriate Process Model Selection [5Marks] |  |
| Argumentation for model selection with Evidence [5Marks] |  |
| Completeness, Spelling, Grammar and Organization of the Answer [5Marks] |  |
|  | |
| CO4: Explain the roles and their responsibilities in the software project management activities | Total Marks |
|  |
| Content Knowledge (e.g. System Requirements, System Design) [5Marks] |  |
| Project Role identification [5Marks] |  |
| Responsibility Description [5Marks] |  |
| Completeness, Spelling, grammar and Organization of the Answer [5Marks] |  |

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# PROBLEM DOMAIN

## Background to the Problem

* Write the background description that helps putting the project into the right context of a problem domain and gives everyone involved a common view of the project
* What is the root cause of this problem? why is this problem is so important to consider?

## Solution to the Problem

* What are the solutions you are going to propose to deal with the problem? why is this   
   solution is particularly appropriate to solve the problem? Is the solution feasible to the   
   meet the business objective?
* Provide a short description of the software being specified and its purpose, including relevant benefits, objectives, and goals
* Existing studies presented in the problem area. What are the existing software solutions   
   are available to solve the aforementioned problem?

## Existing / Related Solutions

* What are the existing/ related solutions we have still now? Discuss about that.

# SOFTWARE DEVELOPMENT LIFE CYCLE

## Process Model

* Provide an analysis regarding the nature and environment of the software that you are going to develop and select the best suitable method(s) to develop the software.
* Present your arguments based on your analysis about why your selected method(s) is the best choice among all other methods to develop your proposed software.

## Project Roll Identification and Responsibilities

* Identify all the roles in the project management activities in software development.
* Describes the responsibilities of the role in the software development.

# PRODUCT AND PROJECT DESCRIPTION

## Stakeholders

* Those who are involved in the project and work on it.
* Internal and external stakeholders.

## System Features

* List down the system functional requirements that describes the system’s functionalities
* Example  
  1. System Login **Functional Requirements**
  1. The software shall allow users to login with their given username and password
  2. If the username and/or password has been inserted wrong for more than three times, the random verification code will be generated by the system to retry login.
  3. If the number of login attempt exceed its limit (5 times), the system shall block the user account login for one hour *[optional function]*

**Priority Level:** High **Precondition:** user has valid user id and password

# System Quality Attributes

* List down the quality attributes that describes how well the system should perform.
* Example:  
  **Usability:** *A trained user shall be able to submit a complete request for a chemical selected from a vendor catalog in an average of four and a maximum of six minutes.*

## System Architecture

Include use case diagram, class diagram, activity diagram, state-chart diagram, ER diagram, Data Flow diagram, etc.

## System Interface

* Draw the system interface where the users will interact with the system’s functionality.

## Project Requirements

* List down the project constraints (e.g. time, budget, resources, environment, and effort estimation, Scheduling and Budgeting, Risk Analysis etc.) that should be followed in the project management.
* Example:

**Text Format:**

* Style: Times New Roman
* Size: 11