

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

**PROJECT TITLE**

A Software Engineering Project Submitted

By

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| **Semester: Summer\_21\_22** | | **Section:** | **Group Number:** | |
| SN | Student Name | Student ID | Contribution (CO1+CO2+CO3) | Individual Marks |
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The project will be Evaluated for the following Course Outcomes

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| CO1: *Analyze* the impact of software engineering models over various context of software development to assess societal, health, safety, legal and cultural issues. | Total Marks |
|  |
| Project Background Analysis and feasibility (needs, goal, benefits, etc.) [5 Marks] |  |
| Analysis the impact of societal, health, safety, legal and cultural issues [5Marks] |  |
| Existing Studies and Relevant Example [5Marks] |  |
| CO2: *Choose* appropriate software engineering model in a software development environment | Total Marks |
|  |
| Appropriate Process Model Selection and Argumentation with Evidence [5Marks] |  |
| Evidence of Argumentation regarding process model selection [5Marks] |  |
| Completeness, Spelling, grammar and Organization of the Project report [5Marks] |  |
| CO3: *Explain* the software project management roles and their skills in context of professional engineering practice and solutions to complex engineering problems | Total Marks |
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| Project Role identification [5Marks] |  |
| Project Responsibilities descriptions [5Marks] |  |
| Submission and Defend the Project [5Marks] |  |

Description of Student’s Contribution in the Project work

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| Student Name:  Student ID:  Contribution in Percentage (%):  Contribution in the Project:   * Contribution Description 1 * Contribution Description 2   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Signature of the Student |
| Student Name:  Student ID:  Contribution in Percentage (%):  Contribution in the Project:   * Contribution Description 1 * Contribution Description 2   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Signature of the Student |
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# PROJECT PROPOSAL

## Background to the Problem

* Write the background description that helps putting your 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 this problem is so important to consider?

## Solution to the Problem

* Describe what is your project/thesis objective? What solutions are you going to provide to solve the above-mentioned problems?
* 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?
* Describe the basic functionalities of your proposed solution that makes the best use of state‐of‐art technology and produced a significant result that is likely to have a major impact on societal, health, safety, legal and cultural issues. Provide a deep insight that demonstrate and preset a creative solution to the real‐life problem.
* Describe the target group of users of your solution? And how they will be benefited by your proposed solution to the problem?
* Describe the contribution of your project to the development of scientific results that is identified and well documented.
* Provide a literature review on what are the other studies that have discussed the same topic of yours in the literature and explain how your study has utilized and extended the problems of existing studies.
* Provide a description of all the existing studies presented in the problem area. What are the existing software solutions (for project) are available to solve the aforementioned problems?
* What are the existing software solutions are available to solve the aforementioned problem? And how your proposed solution is going to extend them in providing more benefits to the users?

# 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.
* Presents sufficient amount of evidence to support argument for your model selection in developing your proposed solution.

## Project Role Identification and Responsibilities

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

**Text Format:**

* Style: Times New Roman
* Size: 12
* Space: 1.0
* Alignment: Justify
* Length: Maximum 6 pages (including cover page)

## Rubric for Project Assessment (CO1)

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| --- | --- | --- | --- | --- | --- |
| Marking Criteria | Marks Distribution (Maximum 3X5=15) | | | | Acquired Marks |
| **Inadequate (1-2)** | **Satisfactory (3)** | **Good (4)** | **Excellent (5)** |
|  |  |  |  |  |  |
| Background  Analysis | No background information regarding the project is  given; project goals and benefits are  missing. | Insufficient background information is given; project goals and benefits are  poorly stated | Sufficient background information is given; the purpose and goals of the project are explained. | Thorough and relevant background information  is given; project goals are clear and easy to identify. |  |
| Analysis the impact of societal, health, safety, legal and cultural issues | Student vaguely discuss the impact of societal, health, safety, legal and cultural issues in their project | Student provided with partial relevance to the impact of societal, health, safety, legal and cultural issues in their project | Student fairly provided the analysis to the impact of societal, health, safety, legal and cultural issues in their project | Student comprehensively provided the analysis to the impact of societal, health, safety, legal and cultural issues in their project |  |
| Existing Studies and Relevant Example | Ambiguous representative example. | Partially identify / indicate towards real-life example. | Real-life example is fairly connected towards the definition. | Comprehensively defend with real life example. |  |
| Acquired Marks: | | | | |  |
| CO Pass / Fail: | | | | |  |

## Rubric for Project Assessment (CO2)

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| --- | --- | --- | --- | --- | --- |
| Criteria | Marks distribution (Max 3X5= 15) | | | | Acquired  Marks |
| **Inadequate (1-2)** | **Satisfactory (3)** | **Good (4)** | **Excellent (5)** |
|  |  |  |  |  |  |
| Argumentation of Model selection | Does not articulate a position or argument of choosing appropriate model | Articulates a position or argument for choosing models that is unfocused or ambiguous | Articulates a position or argument of choosing models that is incomplete or limited in scope | Clearly articulates a position or argument for the choosing software engineering models |  |
| Evidence of Argumentation | Does not present any evidence to support the arguments for the choice of the model | Presents incomplete/vague evidence to support argument for model choice | Does not present enough evidence to support the argument for the choice of the model | Presents sufficient amount of evidence to support argument for the model selection |  |
| Completeness, Spelling, grammar and Organization of the Project report | Project report is not complete and Several errors in spelling and grammar. Present a Confusing organization of concepts, supporting  arguments, and  real-life example.  Sentences rambling, and details are repeated | Some errors in spelling and grammar. Some problems  of organizing the answer in a logical order of defining,  elaborating, and providing real-life examples | Few errors in spelling and grammar. Presents most of the details in a logical flow of  organization in  definition,  details, and  example | Project report is complete and No errors in spelling and grammar. Consistently  presents a logical  and effective  organization of  definition,  details, and real-  life example of  the topic |  |
| Acquired marks: | | | | |  |
| CO Pass / Fail: | | | | |  |

## Rubric for Project Assessment (CO3)

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| Criteria | Marks distribution (Max 3X5= 15) | | | | Acquired  Marks |
| **Inadequate  (1-2)** | **Satisfactory (3)** | **Good (4)** | **Excellent (5)** |
| Role identification | Does not identify any roles in the project management activities | Identify few roles in the project management | Identify most of the roles in the project management | Identify all of the roles in the project management activities |  |
| Responsibility Allocation | The project has poor project management plans for assigning the responsibilities | Some of the roles are left alone with any project responsibilities | Few of the roles are left alone with any project responsibilities | Well planned project with proper resource allocation |  |
| Viva | Unable to answer the basic questions and lack of knowledge regarding software engineering concepts and overall project knowledge | Have little understanding of the software engineering concepts and overall project knowledge | Have fair understanding of the software engineering concepts and overall project knowledge | Have clear understanding of the software engineering concepts and overall project knowledge |  |
| Acquired marks: | | | | |  |
| CO Pass / Fail: | | | | |  |