

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

**Helpline Community Services for Bachelor**

A Software Engineering Project Submitted

By

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| --- | --- | --- | --- | --- |
| **Semester: Spring\_21\_22** | | **Section: G** | **Group Number: 04** | |
| SN | Student Name | Student ID | Contribution (CO1+CO2+CO3) | Individual Marks |
| 33. | JAKARIA KHAN RAFI | 20-43273-1 |  |  |
| 31. | SHAFIUL AJAM OPEE | 20-43194-1 |  |  |
| 26. | SYED MUHAMMAD HASNAT JAMEE | 20-42918-1 |  |  |
| 23. | FARHANA YEASMIN MUNMUN | 20-42710-1 |  |  |
| 4. | MD. RASHEDUL ISLAM | 17-33685-1 |  |  |

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 |
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| 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 |
|  |
| Project Role identification [5Marks] |  |
| Project Responsibilities descriptions [5Marks] |  |
| Submission and Defense the Project [5Marks] |  |

Description of Student’s Contribution in the Project work

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| Student Name: JAKARIA KHAN RAFI  Student ID: 20-43273-1  Contribution in Percentage (20%):  Contribution in the Project:   * Existing Studies and Relevant Example * CO3     Rafi  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Signature of the Student |
| Student Name: SHAFIUL AJAM OPEE  Student ID: 20-43194-1  Contribution in Percentage (20%):  Contribution in the Project:   * Project Background Analysis and feasibility * CO3   Opee  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Signature of the Student |
| Student Name: SYED MUHAMMAD HASNAT JAMEE  Student ID: 20-42918-1  Contribution in Percentage (20%):  Contribution in the Project:   * Analysis the impact of societal, health, safety, legal and cultural issues * CO3   Jamee  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Signature of the Student |
| Student Name: FARHANA YEASMIN MUNMUN  Student ID: 20-42710-1  Contribution in Percentage (20%):  Contribution in the Project:   * Evidence of Argumentation regarding process model selection * CO3   Munmun  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Signature of the Student |
| Student Name: MD. RASHEDUL ISLAM  Student ID: 17-33685-1  Contribution in Percentage (20%):  Contribution in the Project:   * Appropriate Process Model Selection and Argumentation with Evidence * CO3   Rashedul  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Signature of the Student |

# PROJECT PROPOSAL

## Background to the Problem

In 21st century, World civilization has improved simultaneously and moved into an era where people live their live in a way that brings happiness into their lives. On the other hand, we Bangladeshi people have not been able to solve the accommodation problem successfully till now. Especially It has become a vastly difficult task for every bachelor to find housing in Dhaka city because some of house-owners of these city have become extremely reluctant about renting their homes to bachelors and even if they agree they ask for exorbitant house rents. It is not possible to afford for a bachelor. Although bachelors are able to manage their home, a bachelor has to deal with some transactional problems to buy their home furnishings. We hope that our project “Helpline Community Services for Bachelor” will help to get rid of these obstacles.

The root cause of this problem is insufficient source of help. We want to create a community where our responsibility is to handle rental and furniture issues at the same time for bachelors. This problem is very important to consider because if we search it physically then finding the rent is very time consuming and most importantly in general, we all bachelors are students or job holder if we cannot able to manage our rent on time then it can be negatively effectible for our life. Accommodation also influences our country negatively as only bachelors are denying by homeowner. It creates inequality in society. Therefore, it can be said that if these problems are not brought under control, our bachelor will have to face various problems in the future.

## Solution to the Problem

Our team is going to propose some common and some new ideas to deal with the problem. Our approach for the problem is to build such software what can be a real-life problem solver for any bachelor. Our project mainly for mobile based. We are going to provide some solution for the above problems. Bachelors will be provided with the facility to ensure their accommodation and their home accessories without going outside. This solution is particularly appropriate to solve the problem because there will be some features in our software where user will be offered by some home accessories. They will be able to buy their necessary home accessories which is offered by our software and when they are about to leave the apartment, they can sell their home accessories to the community through software. The solution is not feasible to meet the business objectives as it is a non-profitable service. By the using of our software functionalities user will be familiar with technology. Our targeted group of users is home-owner and bachelors. Homeowner, who will rent their house and bachelors, who is looking for rent and other facilities. Using our software, homeowners will be able to advertise their rental house information with photos and rent so that bachelors will be able to book their affordable apartment without any hassle. This is not just a software that provides some facilities also it is a convenient way of communicate between users. In the current situation Bachelor renters in Dhaka do not know where to go for a suitable apartment. Reason why, the homeowner is not able to reach the desired audience. As a result, the main issue is a lack of communication between them which is going to improve by our software.

In today’s world technology is so developed that some of our features like rental issues are little similar to some of existing software solutions such as Bproperty and BdTo-Let. But they are not going to provide solution for all aforementioned problem. All accommodation services in online are based on family apartment, they manage rent for family with a demanding cost but in our project, we are going to provide some services only for bachelor as they cannot able to get rent. They will be offered by some other home accessories which will be delivered by Labor. In that case jobless people can be able to earn some money through our software.

## Process Model

Our project is basically about helping bachelors to get rent and other facilities through online. Our team has tried hard to bring some new requirements in this software. Our project idea and intention are pretty clear where we are going to provides some real-life problem solution to bachelors. During our project development, we are just going to implement our pre-planned ideas. So, we do not need to back tracking. Reason why we decided to work with Waterfall process model and our project environment should be predictive because our vision and ideas are clear. Agile process model use when project idea is not fully clear and we do not know exactly about client requirements, in that case we just start a project and build it part by part. Which is gone through by adaptive environment where we can modify our project idea later. It is not applicable for our project requirements. We offering some features through our software where bachelor will be able to use those features and we do not have to go for any major modification. Reason why waterfall process model seems more suitable than agile process model in our software. In our software there are two types of users one is home-owner another one is bachelor. Their activity is fixed and simple. Homeowners are advertising their apartment through our software and bachelors will be able to book it. In that sense we should definitely go for waterfall process model as it fits with our project idea. Our project is not very complex and we have a clear understanding about it and pretty less change of further modification.

## Project Role Identification and Responsibilities

Here is the identification in our project who plays important role and they have their own responsibilities in this project.

**Admin:** They are liable for guaranteeing that the undertaking is helped through as per the practices, values and that it advances as arranged. Additionally, they cooperate with the undertaking group as well likewise with the user and the Management Team during the venture. They are formally liable for the task, making due, controlling, characterizing and focusing on prerequisites to meet our users and management team needs.

**User:** User is the center of our task. We essentially make this product for them. Essentially there are two sorts of user we need to show one bachelor (understudies, administration/work holder) two house proprietor. From the outset, they need to login the product with appropriate data. Then, at that point, house proprietor can post their pads subtleties and necessity with pictures. At the point when lone rangers are looking for any level for lease the design come Infront of their screen. house own will give their area and contact number. Subsequent to picking a level They associate with the house proprietor as well similarly as with the unhitched males. Lone rangers can likewise enlist work to collect their furnishings and extras.

**Management Team:** Management Team is engaged with exertion assessment, making and checking on the Run Overabundance and recommending obstructions that should be taken out from the venture. In our undertaking, the group assumes the parts of improvement and the board. Only one out of every odd part might be an architect, yet might be a piece of the group in the event that their abilities are expected for the venture to continue at the necessary speed. Engineers might have a particular expertise inside the group and they are in behind of the coding. Supervisory crew gathers and oversees works for the betterment.in single word they control the volunteers in our task.

**Labor:** They convey items to the user when a few users designate them. Work will clean their furnishings what not. This interaction might assist with forestalling joblessness of needy individuals in the county. User will pay labors for their works.