

American International University-Bangladesh (AIUB)  
**Department of Computer Science  
Faculty of Science & Technology (FST)  
Fall 21\_22**

**Section: H  
Group No: 01**

**FINDING SCHOLAR**

A software Engineering project submitted

By

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| --- | --- | --- | --- |
| SN | Student Name | Student ID | Contribution (%) |
| 02 | SAYEED, MD ABU | 17-34539-2 | 20% |
| 15 | AHMED, M. A. ASIF | 19-40939-2 | 20% |
| 18 | BHOUMICK, SHARON | 19-41534-3 | 20% |
| 22 | AYON, SHAHRIAR SIDDIQUE | 20-42265-1 | 20% |
| 23 | HAQUE, NAFIJUL | 20-42366-1 | 20% |

The project will be Evaluated for the following Course Outcomes

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| --- | --- |
| CO3: Choose appropriate software engineering model in a software development   environment | Total Marks |
|  |
| Project Background Analysis and feasibility (needs, goal, benefits, etc.) [5Marks] |  |
| Appropriate Process Model Selection and Argumentation with Evidence [5Marks] |  |
| Completeness, Spelling, Grammar and Organization of the report [5Marks] |  |
|  | |
| CO4: Explain the roles and their responsibilities in the software project   management activities | Total Marks |
|  |
| Content Knowledge (e.g., System Functionalities, Related Product/Services) [5Marks] |  |
| Project Role identification and Responsibilities descriptions [5Marks] |  |
| Submission and Defense the Project [5Marks] |  |

# PROJECT PROPOSAL

Our Project name is finding scholar like it will help us to recruit imam and muezzin for our mosque. In this world, everywhere has mosque. In this mosque there need imam and muezzin. Our software will work for this.

## Background to the Problem

Suppose a mosque need a imam or muezzin. Usually through recruitment notification, we try to find better imam or muezzin. It is a very long and time consuming process. Because by through recruitment notification first we collect some candidate and then we sort out better candidate from there for our mosque. Besides, many of candidate who wants to be a imam or muezzin , they can’t get the recruitment notification in time. Even by through recruitment notification sometime we can’t get proper imam or muezzin for the mosque. Sometimes we can’t hire proper imam or muezzin in the time by through recruitment notification.

## Solution to the Problem

Our software can solve all this problem that make more easier to find out better imam and muezzin for our mosque. Our software will provide the imam and muezzin. Those who need imam or muezzin to the mosque, they don’t need to through any recruitment notification. Because in our software there will be available candidate and those who need they can get many candidates with their bio and they can recruit by their own choice. This software will also help those candidates who wants to be a imam or muezzin. Candidate has to wait for recruitment notification those mosque need imam or muezzin. Sometimes they can’t get all the requirement notification. But if they use this software, they can easily get update which mosque give requirement notification. This software also save time for both candidate and those who want imam or muezzin.

When a user uses this software, they have to sign up and there will be two options. One is applicant and another is recruitment. In applicant option candidate can make their own profile and apply for imam or muezzin. In our software there will have database. In this database all the information will save of the candidate who want to be a imam or muezzin. There will be a notification bell system which shows which mosque need imam or mosque to the candidate. Candidate can apply those recruitment post via notification bell.

There will another option name recruitment which allow user that post a recruitment for imam or muezzin. When user post a recruitment of imam or muezzin of that post candidate will response his post and user can show all the information of candidate which candidate upload on his profile. If user choose a candidate they can also communicate with the candidate. There will be another option name interview, which allow the user can take a interview with the candidate via video and audio.

# SOFTWARE DEVELOPMENT LIFE CYCLE

## Process Model

First of all our project environment is predictive. Because we will have all the clear details about our project that we already mentioned in the software system 1.2.We have a clear understanding what we are going to develop. Secondly, our software is not only for particular that customer or client.

We are going to use waterfall model which is a linear sequential model for our project. There are various reasons to use this waterfall model for our project. Such as, our project environment is predictive but if we use agile model for our project it will not helpful for us. Because agile model project environment is adaptive. For this reason we have to more give time to the agile model. But if we use waterfall model we don’t have to give extra time for planning or understanding. Because our project environment is predictive and we all have all the clear details about our project. As we know what things to develop. So, we don’t have to separate the work. we can easily do our development by sequentially. This is called linear sequential development which support waterfall model. Waterfall model is very appropriate for safety critical product. Waterfall model is very simple to understand and easy to use because of its systematic well-defined process description. The product is delivered to the users at ONE shoot. The main thing is our environment is stable, we have all well understood requirements then we don’t need to separate those woks. We don’t have any particular client that we have to describe them of all things that we have done. We don’t need to use like V-model, SAW-TOOTH model. In V-model and SAW-TOOTH model we have to take client or customer feedback. But in our project, we don’t need to take feedback from anyone because we have clearly known what have to do. We just develop the project at linear sequentially and delivered to the users at ONE shoot. Our software is for all. And that’s why we are going use waterfall model.

Now question is what so special about waterfall model. The answer is in this model phases are connected with distinctly. It means each phase will move forward to the next phases until finishing before phase 100%. And it is very simple to understand and easy to use because of its systematic well-defined process description.

## Project Role Identification and Responsibilities

As, we mentioned to the previous in 2.1 (Process Model) that for our project we are going to use waterfall model. In this model there are five phases. Each of the phases do different kind of role. Here we are describing which phase has do which role.

1. **Communication:** In this phase there have two roles. One is project initiation and another is requirements gathering. This communication phase try to familiar with our project and collects all the necessary requirements for develop this project.
2. **Planning:** In this phase there have three kind of activities. First one is estimating. Then secondly is scheduling and the last one is tracking. Mainly this phase role is project management. It means what will be the budget for this project, what materials will need for this project, how many manpower will need, how much time will need to develop this project. This activity will do in this planning phase.
3. **Modeling:** There are two role in this phase. From begin will do analysis on this project (depends on communication and planning phase). After finishing project analysis now will do design for this project (like diagram, design etc.).
4. **Construction:** Mainly is this phase the project will take shape in reality. Because in this phase will do code based on design (Modeling phase). After do code the last role in this phase is testing. Is there any bug or issues will try to find out by testing in this phase.
5. **Deployment:** This is the last phase of this waterfall model. In this phase there have three activity. First one is after complete construction phase this phase will deliver this project to the customers. Second role is support. It means after deliver the project to the customers if there any issue will on project (like database issue, UI issue or something else) this phase will support. And the last one is take feedback from the customers or clients.