

**Daffodil International University**

**Department of Software Engineering, FSIT**

**SWE-431 Project/Thesis**

**Project Documentation**

**Mentor Finding Website**

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**Acknowledgment**

At first I am very grateful to my Almighty that he have given me a chance to walk through final year. In my previous year of my university life I have learnt politeness, morality and etc. For this I am thankful to all of my teachers.

I am very grateful to my Father that he always inspires me and always gives value to my opinion. My mother, who is an Ideal Women to me and my favorite person, has always given me courage and immense love. I am very thankful to parents for their immense love and affection. I am very grateful to my supervisor, **Afsana Begum** for giving a chance to work with this project.

Chapter 1

# PROJECT INITIATION

## 1.1 Introduction

This website is for finding mentors. Using this site users can find the right mentor for their work. Choosing a mentor is not so easy. Because in our day-to-day life people we know they cannot always solve our problem depend on their field. Using this site people can easily find a mentor by their choice. They can take an appointment with a mentor and video chat with mentor. I hope this will solve their life problems very easily.

## 1.2 Purpose

The purpose of this project is that user can easily find their mentors and they can implement their advice in their life. Through this website, the user can search for mentors and they can understand which mentor will be the best for them. And it will be very easy to choose a mentor for them.

### 1.2.1 Background

In todays competitive life sometime we need someone who gives us good advice for our career. We have relationship with many person but always they can’t give us good advice in every situation. In that time we need a good mentor. For this reason, I want to make this project which can find any types of mentors easily. That’s why I proposed an idea to my Supervisor **Afsana Begum**. Then my teacher has given me an opportunity to work with this project.

### 1.2.1 Benefits

Online Mentor Finder is very beneficial because:

1. Accessibility to more mentors
2. Builds Relationships and Networks
3. Solves Traditional Challenges In Online
4. Accessibility of mentors from anywhere
5. Easy To Use
6. Safe And Secure

## 1.3 Project Schedule

For developing project or something else, schedule helps for proper planning. I also make a schedule for developing and executing my project properly.

|  |  |  |
| --- | --- | --- |
| Task no. | Task Name | Duration |
| 01 | Planning | 13 Days |
| 02 | Requirements Gathering & Analysis | 12 Days |
| 03 | System Design | 12 Days |
| 04 | Development | 37 Days |
| 05 | Testing | 7 Days |
| 06 | Implementation | 10 Days |
| 07 | Release | 5 Days |
|  | Total | 96 Days |

## 1.4 Goals

We are proudly saying that this is going to be the first site in Bangladesh, which can help people to finding mentor. My goal is to help people to find their mentor and help people to solve their problem or challenge by a perfect mentor.

## 1.5 Conclusion

Technology has come a long way in the present age. We have a lot to deal with to compete with this technology. This software is very useful for dealing with these challenging situation. Because if we have a partner to show us the way, the path has become much easier.

Chapter 2

# Software Requirement Specifications

## 2.1 Functional Requirement Specification

Functional requirements are the primary requirements that are to be fulfilled by the application. Their fulfillment allows the user to use the application. The proposed system provides features for a different type of users. The following subsections illustrate functional requirements to be fulfilled by the proposed system.

|  |  |  |  |
| --- | --- | --- | --- |
| Requirement ID | Requirement Statement | Must/Want | Comments |
| FR001 | New user must have to Signup to the system | Must |  |
| FR002 | Mentor Can’t join without admin permission | Must |  |
| FR003 | Client can search mentor | Want | They Can search mentor by keyword and mentor name |
| FR003 | Client can view mentors details | Want |  |
| FR004 | Client Can’t Book Appointment Without Login | Must |  |
| FR005 | Client have to pay the mentor’s fees before Get Appointment time | Must |  |
| FR006 | Mentor Should Give The Appointment Time | Must |  |
| FR007 | Mentor can view client details |  |  |
| FR008 | Users can’t join video call before date | Must |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Requirement ID | Requirement Statement | Must/Want | Comments |
| FR009 | Any type of user can update their profile | Want |  |
| FR010 | Any types of user can upload profile picture | Must |  |
| FR011 | Admin Can Publish Mentor | Want |  |
| FR012 | Admin Also Can Add Mentor | Want |  |

## 2.3 Design & Implementation Constraints

### 2.3.1 Operating Environment

The Mentor Finding Website will be web based system. Thus anyone having a browser can hit the specific link and can get access to it. Thus it will ensure its best usage and will ease the means of getting access to the system. Moreover it will remove the complexities of running the system in multiple platforms as it will be deployed in a web server.

### 2.3.2 Software Language Used

Programming Language : Python 3

Web Technology : HTML5, CSS3, JavaScripts

Backend Framework : Django 2.2

Frontend Framework : Bootstrap 4

Database : Postgresql 13

**2.3.3 Developments Tools**

For the development purpose text editor VS Code and pdAdmin 4 For management database.

## 2.4 Assumptions & Dependencies

### 2.4.1 Hardware Dependencies

To operate the system the following hardware dependencies are needed:

1. Runs on any x86-64 machine.
2. Depending on the number of users it server, it’ll need a reasonably powerful machine to perform its tasks. The actual requirements will be profiled at a later phase.
3. Every user must have internet connectivity devices to use the system.

### 2.4.2 Browser Dependencies

The system is based on web; therefore no custom tailored client is required to access it. However, this site will be compatible with any JavaScript enabled open standard browsers, and it will also support Internet Explorer (IE), Mozilla Firefox (any latest version) and other compatible browsers.

## 2.5 External Interface Requirements

### 2.5.1 User Interface

The user interface is a key to application usability. Users can easily search mentors by their specific choice, category, or mentor's name. They also can make a video call with mentors. They can view their appointment in their dashboard and they also can view their previous appointments history.

### 2.5.2 Hardware Interface

It will run in a general-purpose computer system with general-purpose hardware and software.

It Requires:

* Processor : Dual Core Or Above
* Ram : 1GB or Above
* Hard Disk : 5 GB or Above

### 2.5.3 Software Interface

To the end-user there is no need of any extra software to be installed. It is to be mentioned that, the user need JavaScript enabled browsers to run the system. For OS, there has no boundary or strict rules, can run smoothly in any OS. However, through the channel the cryptography should be maintained through the whole system as the user can access it through internet also.

### 2.5.4 Communication Interface

All sorts of communications between server and client programs will be using Hyper Text Transmission Protocol (HTTP). As a result, any user using standard communication protocols can communicate with the Mentor Finder Website without any protocol conversion or any other hassles.