



Daffodil
International
University

Mentor Finder Website

Submitted by

Md Ahanaf Islam

ID: 151-35-1126

Department of Software Engineering

Daffodil International University

Supervised by

Afsana Begum

Assistant Professor

Department of Software Engineering

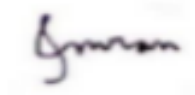
Daffodil International University

This Project report has been submitted in fulfillment of the requirements for the Degree of
Bachelor of Science in Software Engineering.

APPROVAL

This project titled on “**Mentor Finder Website**”, submitted by **Md Ahanaf Islam, ID: 151-35-1126** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

BOARD OF EXAMINERS



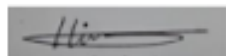
Dr. Imran Mahmud
Associate Professor and Head
Department of Software Engineering
Daffodil International University

Chairman



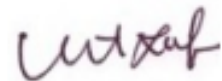
Md. Shohel Arman
Senior Lecturer
Department of Software Engineering
Daffodil International University

Internal Examiner 1



Farhan anan himu
Lecturer
Department of Software Engineering
Daffodil International University

Internal Examiner 2



Professor Mohammad Abu Yousuf, PhD
Institute of Information Technology
Jahangirnagar University

External Examiner

DECLARATION

It hereby I hereby declare that this project report has been done by me under the supervision of **Afsana Begum, Assistant Professor**, Faculty of Science and Information Technology, Department of Software Engineering , Daffodil International University (DIU). It is additionally declared that neither this thesis nor any component has been submitted elsewhere for the award of any degree. All declarations are fully verified for completeness and the validity of their data element contents.



Md Ahanaf Islam

ID: 151-35-1126

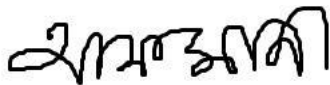
Batch : 16th

Department of Software Engineering

Faculty of Science & Information Technology

Daffodil International University

Certified by:



Afsana Begum

Assistant Professor

Department of Software Engineering

Faculty of Science & Information Technology

Daffodil International University

Acknowledgment

At first, I'm terribly grateful to my Almighty that he has allowed me to run through the final year. In the previous year of my university life, I even have learned politeness, morality and so on. For this, I'm glad to all or any of my teachers.

I'm very grateful to my Father that he perpetually inspires me and always provides value to my opinion. My mother, who is a perfect lady to me and my favorite person, has always given me spirit and huge love. I'm very thankful to my parents for his or her immense love and affection. I am terribly grateful to my supervisor, **Afsana Begum** for allowing me to work on this project.

Table of Contents

PROJECT INITIATION	1
1.1 Introduction	1
1.2 Purpose	1
1.2.1 Background	1
1.2.1 Benefits	2
1.3 Project Schedule	2
1.4 Goals.....	3
1.5 Conclusion.....	3
Software Requirement Specifications.....	4
2.1 Functional Requirement Specification	4
2.2 Design & Implementation Constraints	5
2.2.1 Operating Environment.....	5
2.2.2 Software Language Used	5
2.3 Assumptions & Dependencies	6
2.3.1 Hardware Dependencies	6
2.3.2 Browser Dependencies.....	6
2.4 External Interface Requirements	6
2.4.1 User Interface.....	6
2.4.2 Hardware Interface.....	6
2.4.3 Software Interface	7
2.4.4 Communication Interface.....	7
2.5 Non-Functional Requirements	7
2.5.1 Performance Requirements	7
2.5.2 Safety Requirements	7

2.5.3 Security Requirements	8
Software Design Specification.....	9
3.1 Introduction	9
3.2 Scope And Goals.....	9
3.3 System Architecture Description	9
3.3.1 Use Case Diagram.....	10
3.3.1.1 Use Case Diagram Description (For each use case).....	11
3.3.2 Class Diagram (Database Design)	12
3.4 Activity Diagram.....	13
3.4.1 Activity Diagram For User/Client	13
3.4.2 Activity Diagram For Mentor	14
3.5 Sequence Diagram.....	15
3.5.1 System Sequence Diagram For User/Client	15
3.5.2 System Sequence Diagram For Mentor	16
3.6 Data Design	17
3.6.1 Entity Relationship Diagram.....	17
3.6.2 Data Dictionary.....	18
User.....	18
Mentor.....	19
Appointment	20
Admin	20
User Manual.....	21
4.1 Sign Up.....	21
4.2 Login Page.....	22
4.3 Search Mentor	23

4.4 Book Appointment	23
4.5 Give Appointment Date By Mentor	25
4.6 Join The Video Call.....	26

List of Figures

Figure 3.1: Use Case Diagram	<u>10</u>
Figure 3.2: Class Diagram.....	<u>12</u>
Figure 3.3: Activity Diagram For User	<u>13</u>
Figure 3.4: Activity Diagram For Mentor.....	<u>14</u>
Figure 3.5: Sequence Diagram For Client.....	<u>15</u>
Figure 3.6: Sequence Diagram For Mentor.....	<u>16</u>
Figure 3.7: Entity Relationship Diagram	<u>17</u>

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 today's 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 first requirements that are to be consummated by the application. Their fulfillment permits the user to use the application. The planned system provides options for a unique style of users. the subsequent subsections illustrate practical 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	

2.2 Design & Implementation Constraints

2.2.1 Operating Environment

The Mentor Finding website is an internet-primarily based system. Therefore anyone having a browser can hit the precise link and might get access to it. Therefore it'll guarantee its best usage and can ease the means that of obtaining access to the system. Moreover, it will take away the complexities of running the system on multiple platforms because it will be deployed in an exceedingly web server.

2.2.2 Software Language Used

Programming Language : Python 3

Web Technology : HTML5, CSS3, JavaScripts

Backend Framework : Django 2.2

Frontend Framework : Bootstrap 4

Database : Postgresql 13

2.2.3 Developments Tools

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

2.3 Assumptions & Dependencies

2.3.1 Hardware Dependencies

To operate the system the following hardware dependencies are needed:

- Runs on any x86-64 machine.
- Betting on the number of users it serves, it'll want a fairly powerful machine to perform its tasks. the particular necessities are profiled at a later phase.
- Every user must have internet connectivity devices to use the system.

2.3.2 Browser Dependencies

The system relies on the web; so no custom-tailored consumer is needed to access it. However, this website is compatible with any browsers, like google chrome, firefox, and different compatible browsers.

2.4 External Interface Requirements

2.4.1 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.

2.4.2 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

2.4.3 Software Interface

To the end-user, there's no want of any additional software system to be installed. it's to be mentioned that, the user needs JavaScript-enabled browsers to run the system. For OS, there has no boundaries or strict rules, will run swimmingly in any OS. However, through the channel, the cryptography ought to be maintained through the entire system because the user can access it through the web also.

2.4.4 Communication Interface

All styles of communications between server and user programs are going to be exploited HyperText Transmission Protocol (HTTP). As a result, any user using normal communication protocols will communicate with the Mentor Finder website with no protocol conversion or other hassles.

2.5 Non-Functional Requirements

2.5.1 Performance Requirements

Server software doesn't need any special hardware on the other hand the minimum hardware needed for running enterprise OS. additional disk storage is going to be required for archives and electronic documents. will increase of memory allows economical query processing, which is required for fast bibliographical search. 3 server-grade processors with clock speed 3.0 GHz, a minimum of 8GB RAM, and 1 TB disk are suggested for the server. consumer machine with recommended hardware required for desktop OS and browser.

2.5.2 Safety Requirements

As per workplace safety rules and therefore the server space wherever the server is meant to be placed and the observation people.

2.5.3 Security Requirements

There are three security requirements

- Login as Client
- Login as Mentor
- Login as Admin

To get access Mentor Finder system or a particular module the system should offer an authentication mechanism. to stop anyone to take advantage of taken information all user's passwords must be encrypted in the hash process.

Chapter 3

Software Design Specification

3.1 Introduction

This section provides an associate overall high level of the system. It defines what the system is meant to try and do and what the system can cover, yet what the system won't include. It also includes a summary of the full document.

3.2 Scope And Goals

Mentor Finding website is an application where users can find the right mentor. Also, we need to find out the perfect candidate as a mentor. We need to give the ability to the user that they can search and find the perfect mentor for them.

The purpose of the website is to simplify the mentor finding. To achieve this, the system should additionally perform a group of different tasks. They Are listed below:

1. We need to verify our mentors before we publish them on our website.
2. The system need to provide a user-friendly interface for all types of user.
3. The system need to give admin ability to block any mentor if they are do something wrong.
4. In many cases, we may need to use different APIs for this website.
5. If the user does not get the service properly, there should be a system to complain to us.

In addition, if we face various problems over time, we need to make arrangements to solve them properly

3.3 System Architecture Description

The core models and functionalities that are derived from the functional necessities are generated as basic elements of the systems. By this section, it'll be terribly clear for the development team to search out of these at a glance.

3.3.1 Use Case Diagram

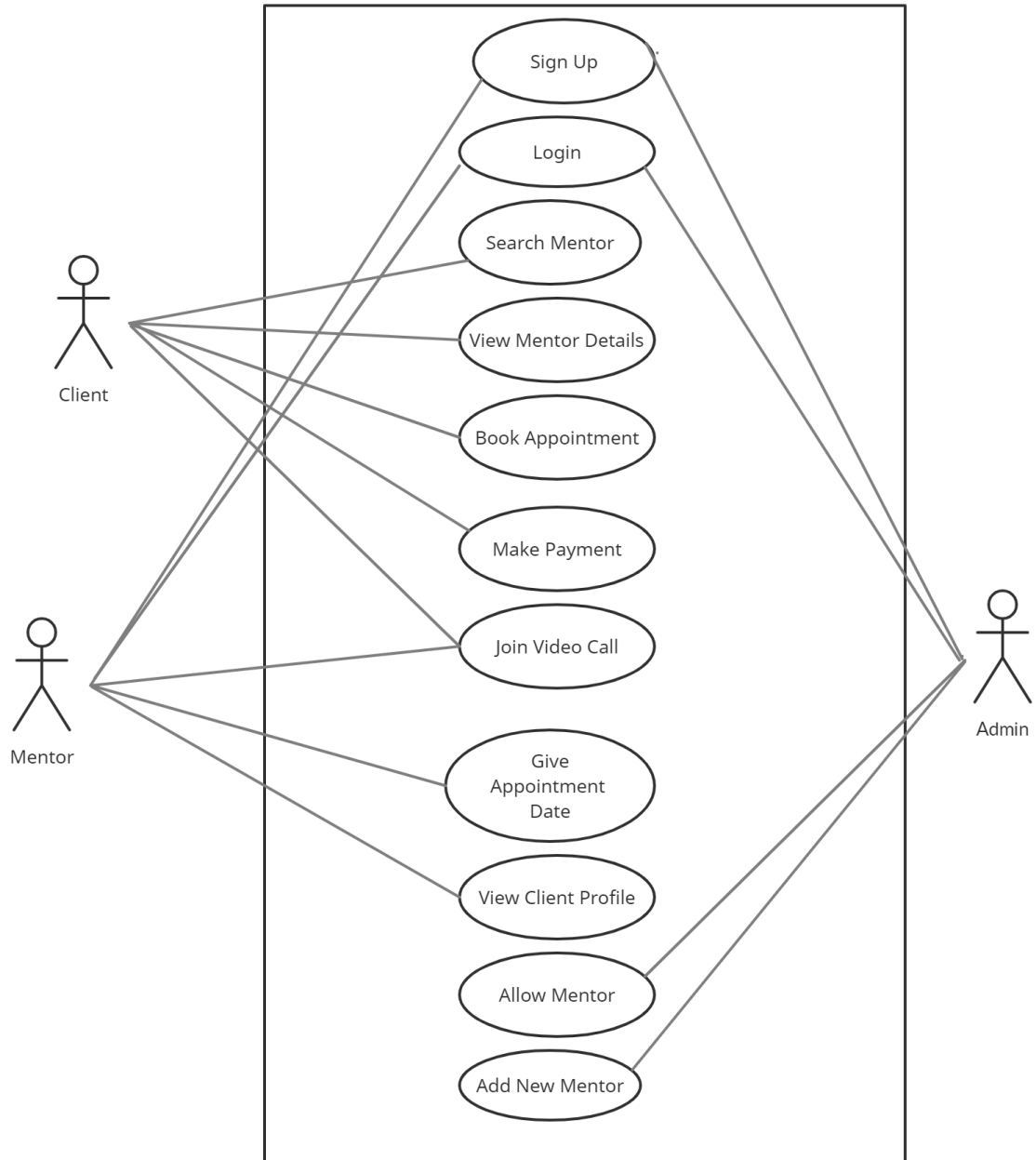


Figure 3.1: Use Case Diagram

3.3.1.1 Use Case Diagram Description (For each use case)

Sign Up	For Sigh Up User needs to provide their information in a sign up form.
Login	A register user can login in the website with there email id and password
Search Mentor	User can search mentor by keyword, mentor's name, category etc.
View Mentor Details	User can view mentor's details before booking any appointment.
Book Appointment	If any user choose any mentor by viewing mentor's details than they can book an appointment with mentor.
Make Payment	Before mentor give appointment date, user have payment first.
Join Video Call	On the date of appointment, the user can join the video call, and also mentor will be joining too.
Give Appointment Date	The mentor will give the appointment date and time when he/she views an appointment request from a user.
View Client Profile	Mentor also can view the user's profile who request for appointment.
Allow Mentor	Admin only can choose who can be become a mentor
Add New Mentor	Admin also can add a new mentor for the mentor finding website.

3.3.2 Class Diagram (Database Design)

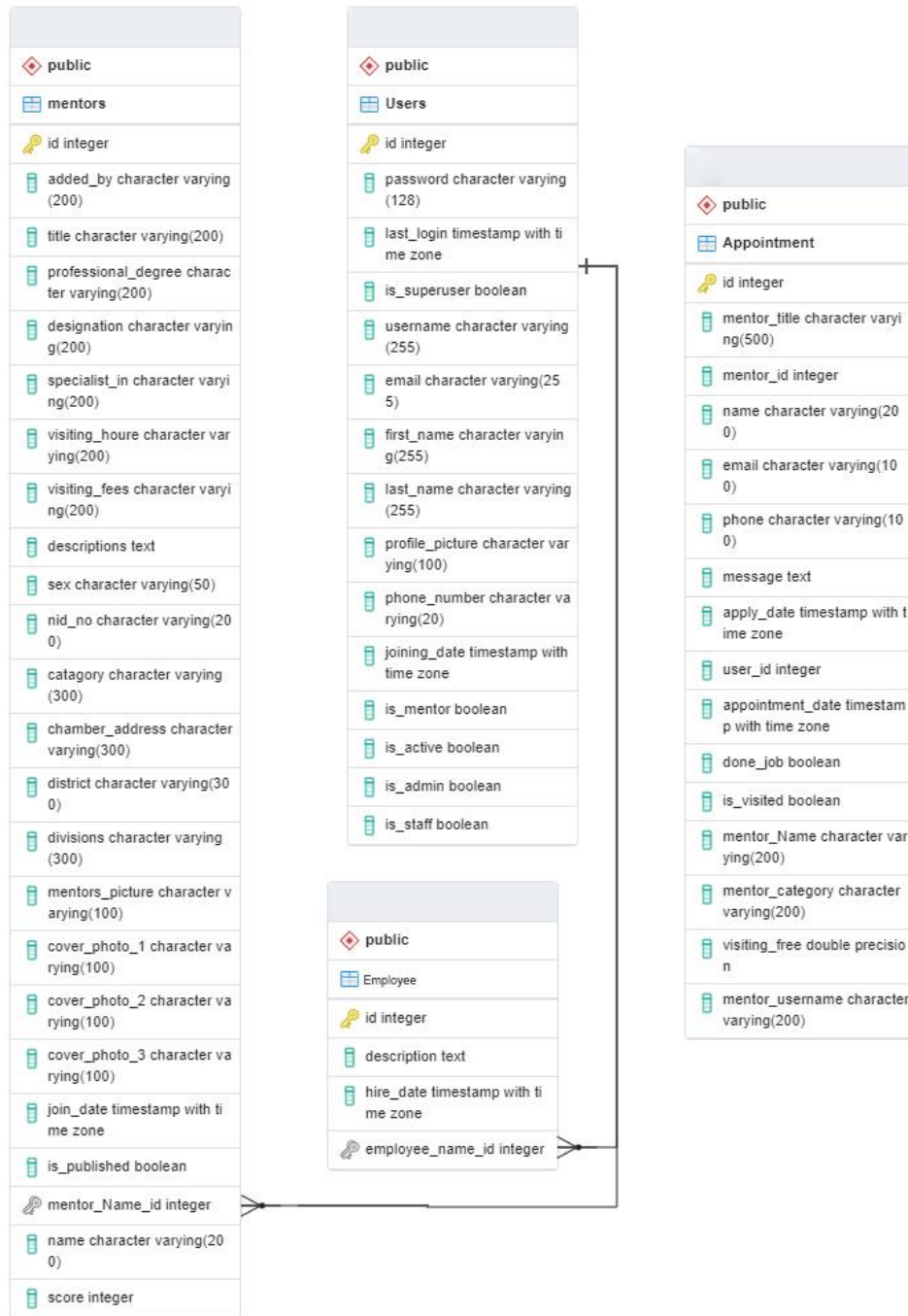


Figure 3.2 : Class Diagram

3.4 Activity Diagram

3.4.1 Activity Diagram For User/Client

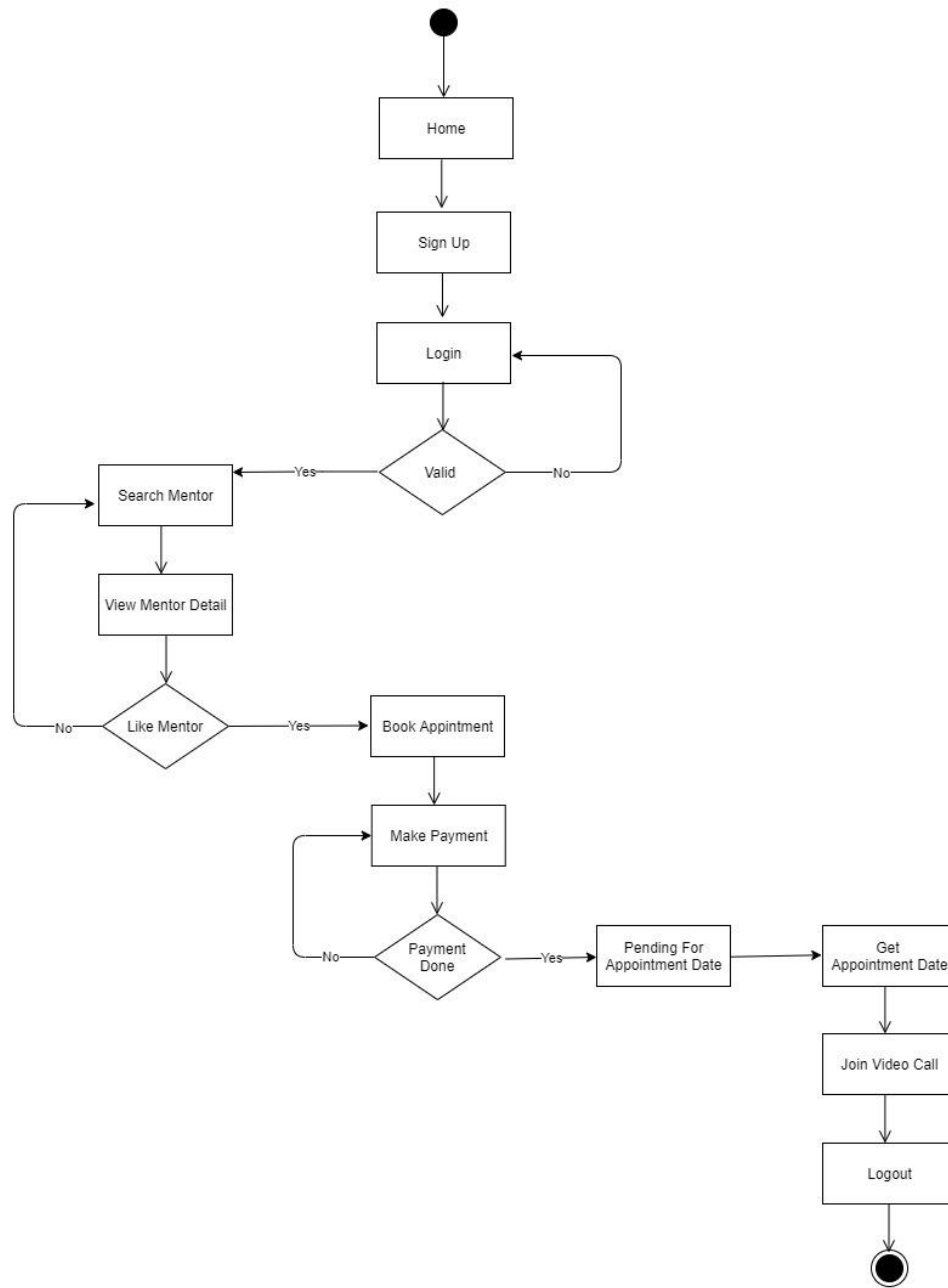


Figure 3.3: Activity Diagram For User

3.4.2 Activity Diagram For Mentor

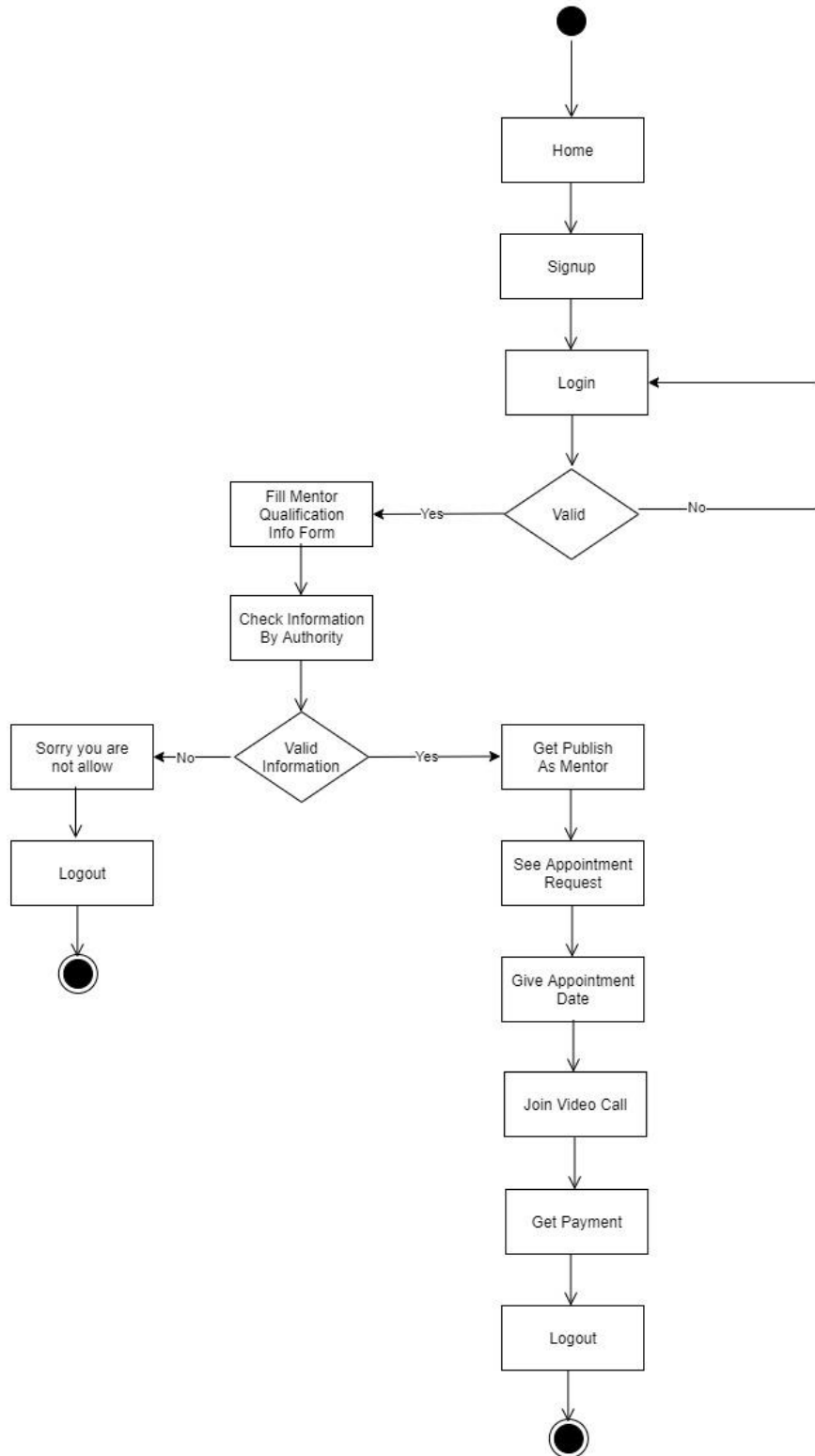


Figure 3.4: Activity Diagram For Mentor

3.5 Sequence Diagram

3.5.1 System Sequence Diagram For User/Client

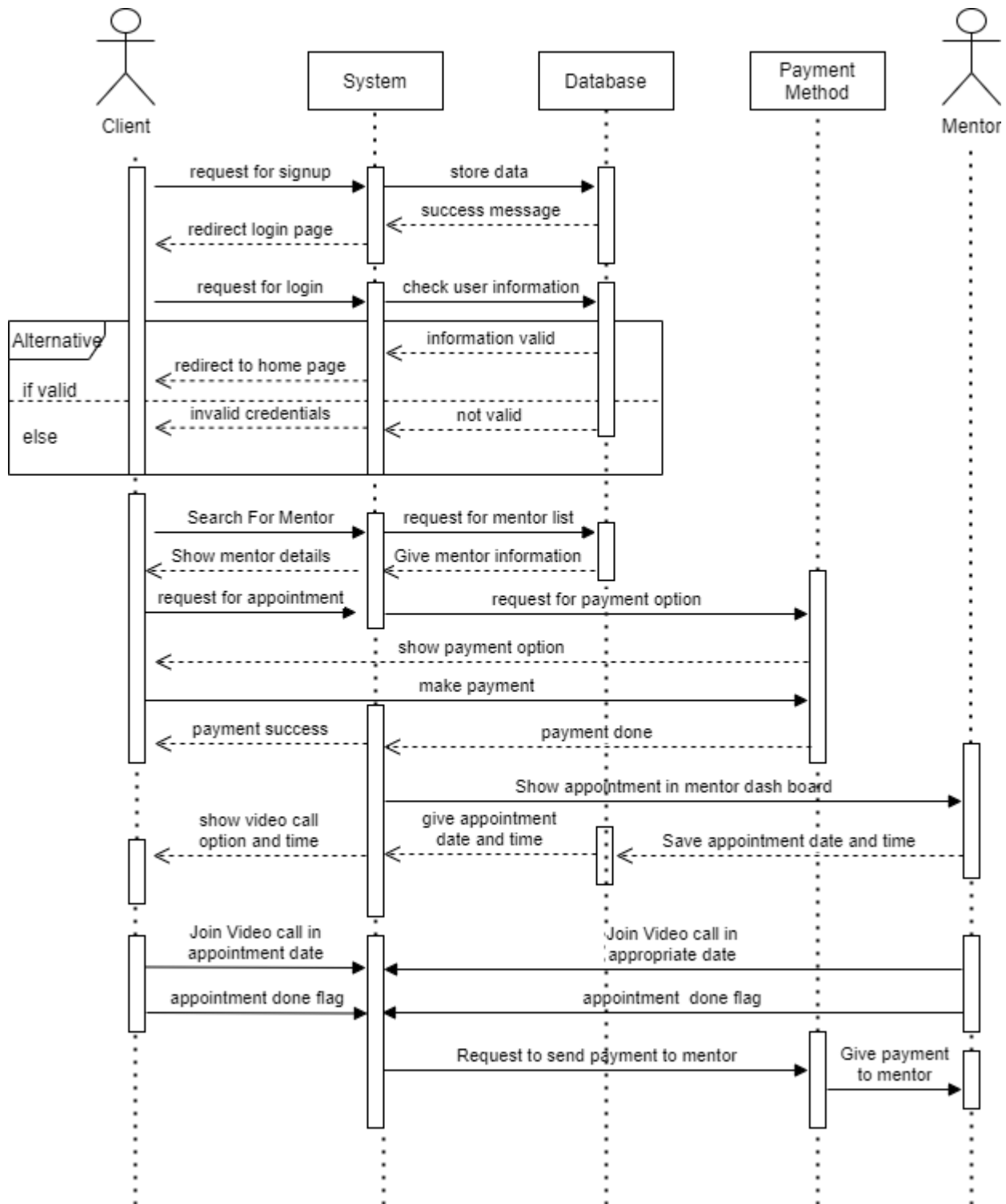


Figure 3.5: Sequence Diagram For Client

3.5.2 System Sequence Diagram For Mentor

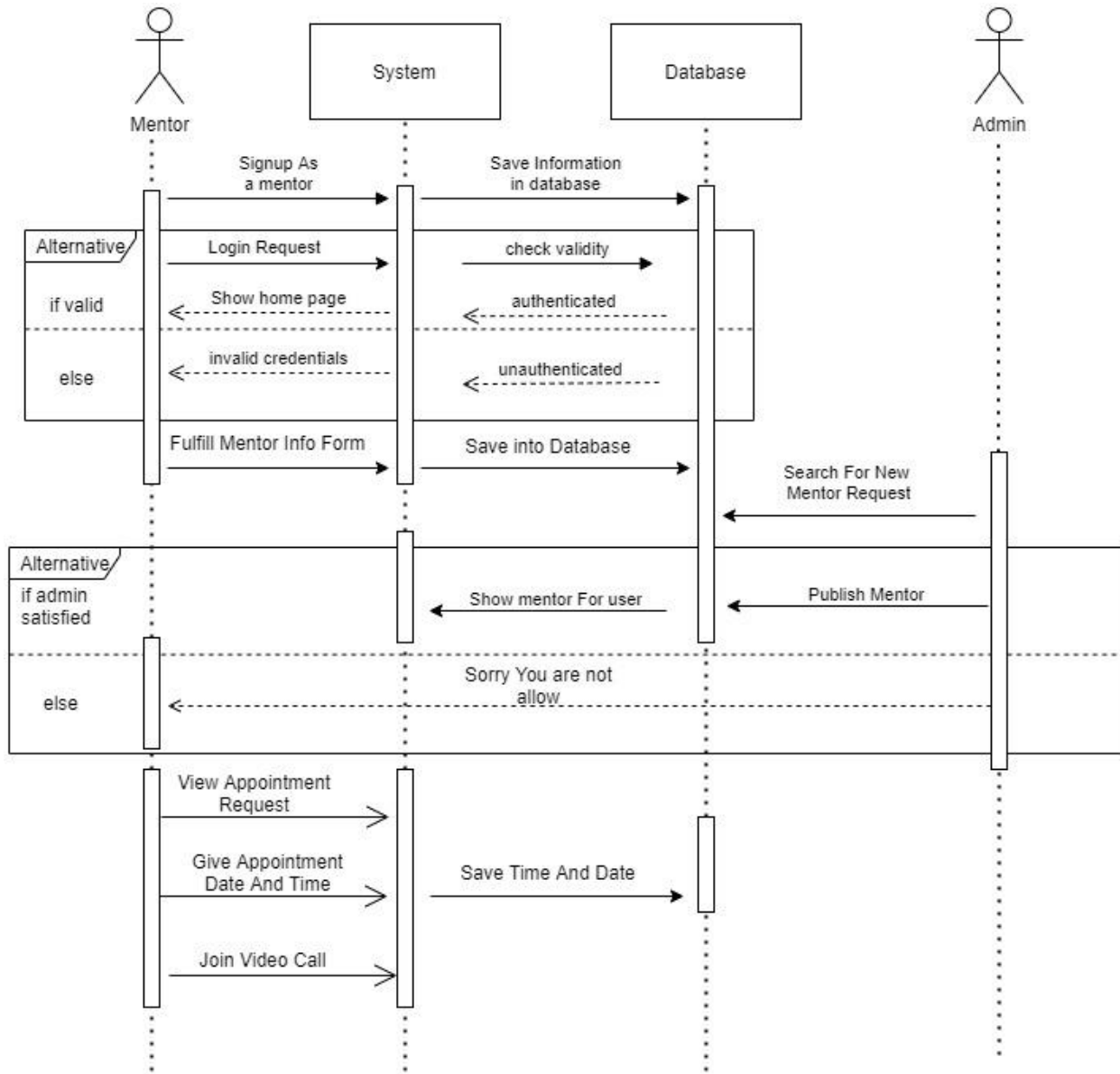


Figure 3.6: Sequence Diagram For Mentor

3.6 Data Design

3.6.1 Entity Relationship Diagram

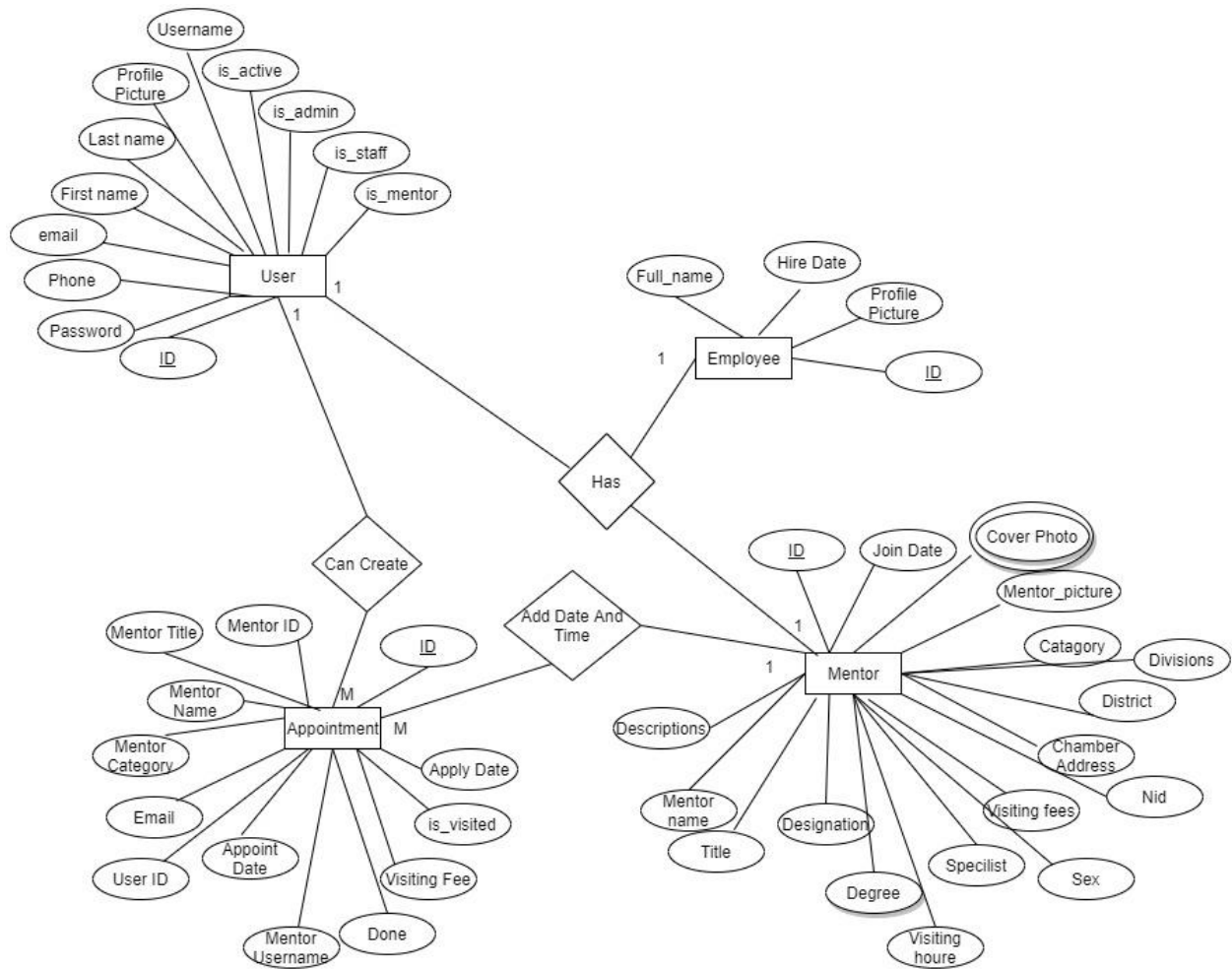


Figure 3.7: Entity Relationship Diagram

3.6.2 Data Dictionary

User

column_name name	ordinal_position integer	column_default character varying	is_nullable character varying (3)	data_type character varying
id	1	nextval('accounts_user...)	NO	integer
last_login	3	[null]	YES	timestamp with time zone
is_superuser	4	[null]	NO	boolean
joining_date	11	[null]	NO	timestamp with time zone
is_mentor	12	[null]	NO	boolean
is_active	13	[null]	NO	boolean
is_admin	14	[null]	NO	boolean
is_staff	15	[null]	NO	boolean
password	2	[null]	NO	character varying
profile_picture	9	[null]	YES	character varying
phone_number	10	[null]	NO	character varying
username	5	[null]	NO	character varying
email	6	[null]	NO	character varying
first_name	7	[null]	NO	character varying
last_name	8	[null]	NO	character varying

Mentor

column_name name	ordinal_position integer	column_default character varying	is_nullable character varying (3)	data_type character varying
id	1	nextval('mentors_ment...	NO	integer
join_date	21	[null]	NO	timestamp with time z...
is_published	22	[null]	NO	boolean
mentor_Name_id	23	[null]	YES	integer
score	25	[null]	NO	integer
specialist_in	7	[null]	NO	character varying
visiting_houre	8	[null]	NO	character varying
visiting_fees	9	[null]	NO	character varying
descriptions	10	[null]	NO	text
sex	11	[null]	NO	character varying
nid_no	12	[null]	NO	character varying
catagory	13	[null]	NO	character varying
chamber_address	14	[null]	NO	character varying
district	15	[null]	NO	character varying
divisions	16	[null]	NO	character varying
mentors_picture	17	[null]	NO	character varying
cover_photo_1	18	[null]	NO	character varying
cover_photo_2	19	[null]	NO	character varying
cover_photo_3	20	[null]	NO	character varying
name	24	[null]	YES	character varying

Appointment

column_name name	ordinal_position integer	column_default character varying	is_nullable character varying (3)	data_type character varying
id	1	nextval('appointment_a...	NO	integer
mentor_id	3	[null]	NO	integer
apply_date	8	[null]	YES	timestamp with time z...
user_id	9	[null]	NO	integer
appointment_date	10	[null]	YES	timestamp with time z...
done_job	11	[null]	NO	boolean
is_visited	12	[null]	NO	boolean
visiting_free	15	[null]	NO	double precision
mentor_Name	13	[null]	YES	character varying
mentor_category	14	[null]	YES	character varying
mentor_title	2	[null]	NO	character varying
video_streaming_id	17	[null]	YES	character varying
name	4	[null]	NO	character varying
email	5	[null]	NO	character varying
phone	6	[null]	NO	character varying
message	7	[null]	NO	text
mentor_username	16	[null]	NO	character varying

Admin

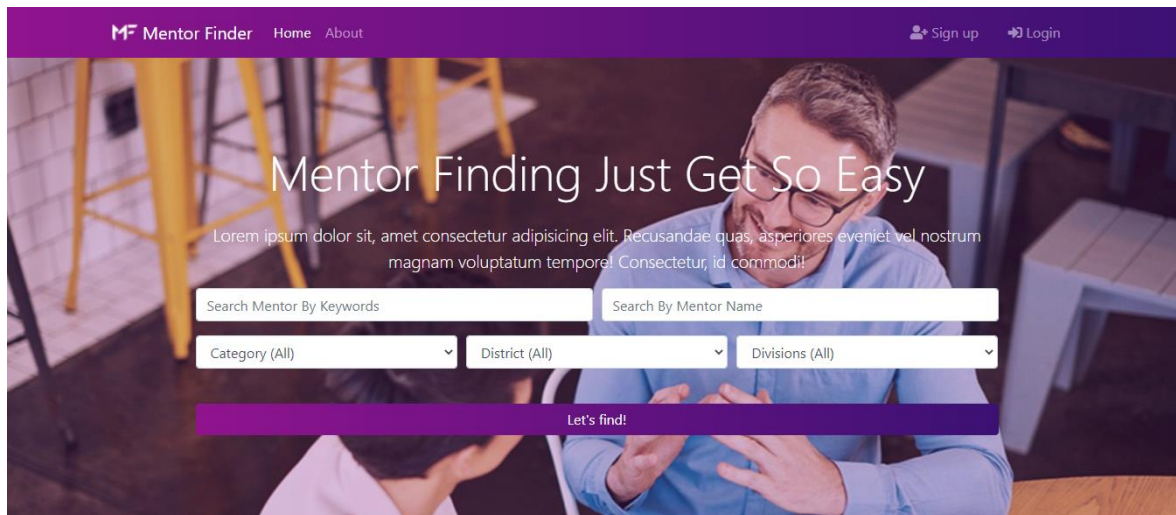
column_name name	ordinal_position integer	column_default character varying	is_nullable character varying (3)	data_type character varying
id	1	nextval('employee_em...	NO	integer
hire_date	3	[null]	NO	timestamp with time zone
employee_name_id	4	[null]	YES	integer
description	2	[null]	NO	text

Chapter 4

User Manual

4.1 Sign Up

- Go to the website Then Click on Sign Up Link



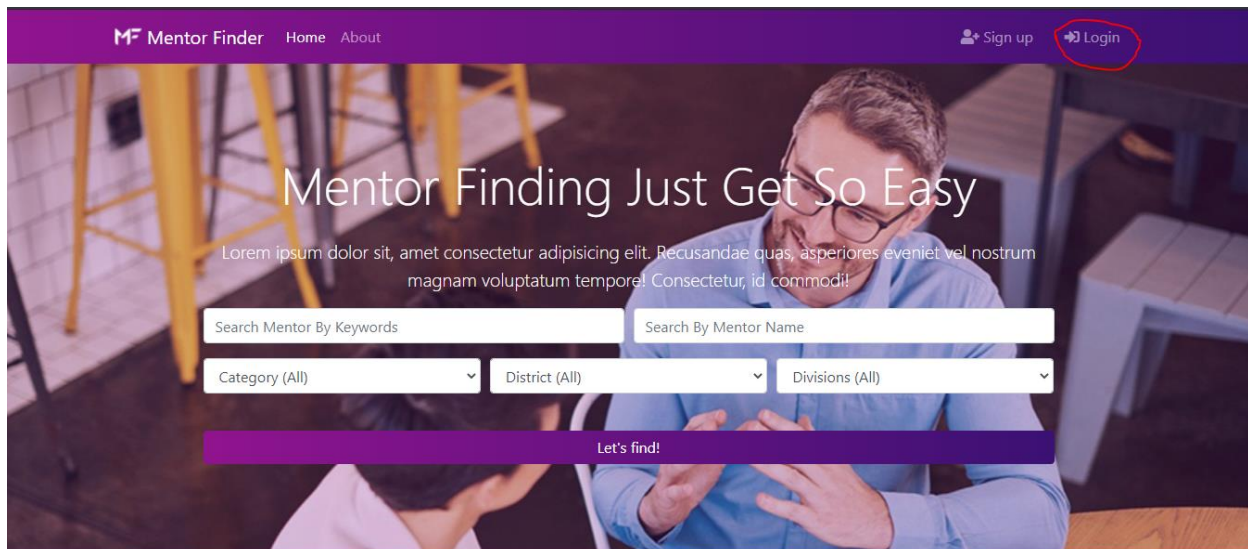
- Then the bellow page will come up
- Full filled the form and click on sign up button

The image shows the 'Sign Up' form on the Mentor Finder website. The form is titled 'Sign Up' and is located on a purple background. It contains the following fields: 'First Name', 'Last Name', 'Username', 'Email', 'Phone', 'Profile Picture' (with a 'Choose File' button and 'No file chosen' text), 'Password', and 'Confirm Password'. At the bottom of the form is a purple 'SignUp' button. Below the button are two links: 'Become A Member' and 'Already have an account? Login'.

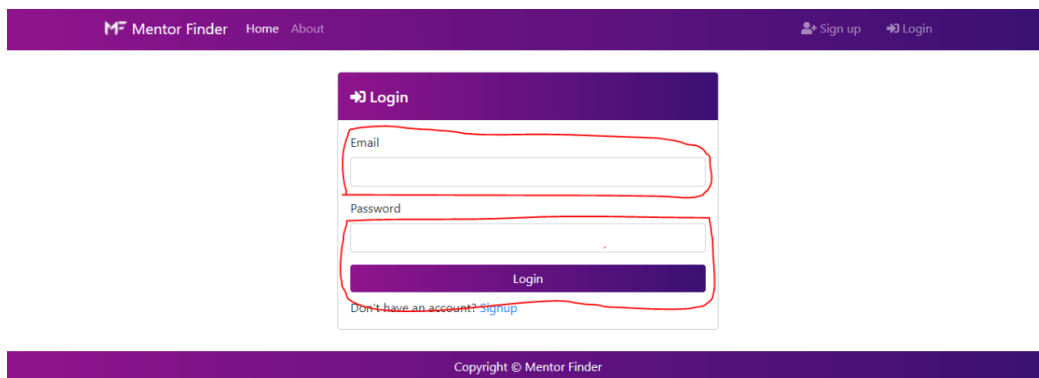
- If you redirect to log in page now you are registered user in Mentor finder. Now You Can Login This website any time.

4.2 Login Page

- At First Go to the website
- Then in the right corner in navigation bar click on the Login Button



- Then the login page will show in your screen

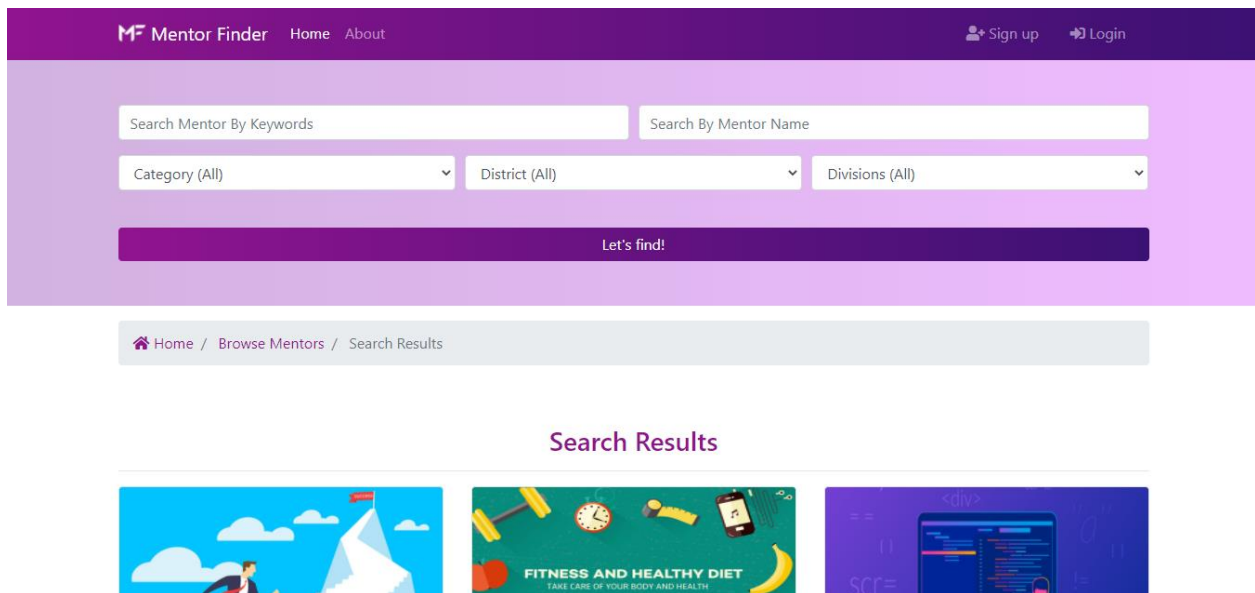


- Then Input Your Email and Password If password is correct Then you will redirect to the home page.

- If you don't have an account you need to sign up in this website by clicking on Signup Button

4.3 Search Mentor

You can view some of our new mentor list in your home page. But if you want to Find more you need to click on Let's find button. Then you will show all of our mentor list in your screen.



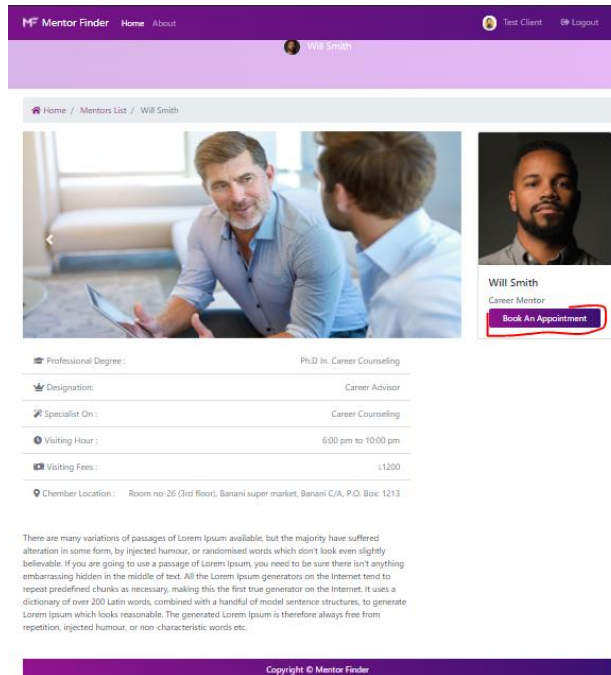
In this Screen you Can search mentor By your choice . You Can Search by keywords, Mentor Name, Category, District and Division. After typing your search field you need to click on let's find button . Then your result will be show in your Screen.

4.4 Book Appointment

If you want to Book any appointment you need click in more info button .

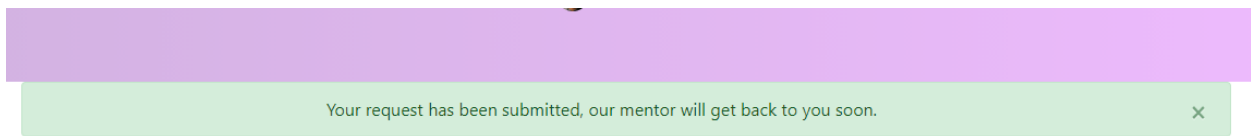


After clicking on more info button you can view the mentor's details information. Like below



If you like this mentor by viewing his detail, to book an appointment with him, you need to click on the book an appointment button.

Then you will see this kind of alert on your screen



Then you Have to Click on billow button to go on your dashboard.



Then the below screen will be shown on your screen



This is the list of appointments that you have been created. Your booking is not confirmed yet. For confirming the booking you have to make payment fast then a mentor will give the appointment date, at this date you can join a video conference with him.

4.5 Give Appointment Date By Mentor

- At first mentor needs to login in his account
- After that he needs to go his dashboard

Then the below screen will be shown

The screenshot shows the Mentor Finder dashboard. The top navigation bar includes the logo 'MF Mentor Finder', links for 'Home' and 'About', and a user profile for 'Will Smith' with a 'Logout' button. The main content area features a sidebar with buttons for 'Dashboard', 'History', 'Profile', and 'Mentor Info'. The main table displays a list of appointments with the following data:

#	Name	Phone	Apply Date	Appointment Date	Profile	Video Call	Is Done
1	Test User	01740000	25-09-2021	mm/dd/yyyy --:-- --	View		

The footer of the dashboard contains the text 'Copyright © Mentor Finder'.

Then Mentor Can give the appointment time. Now Client and Mentor both can view the appointment date. In That day Both can join the video call

Now you Can View The appointment Date and Video Call Option

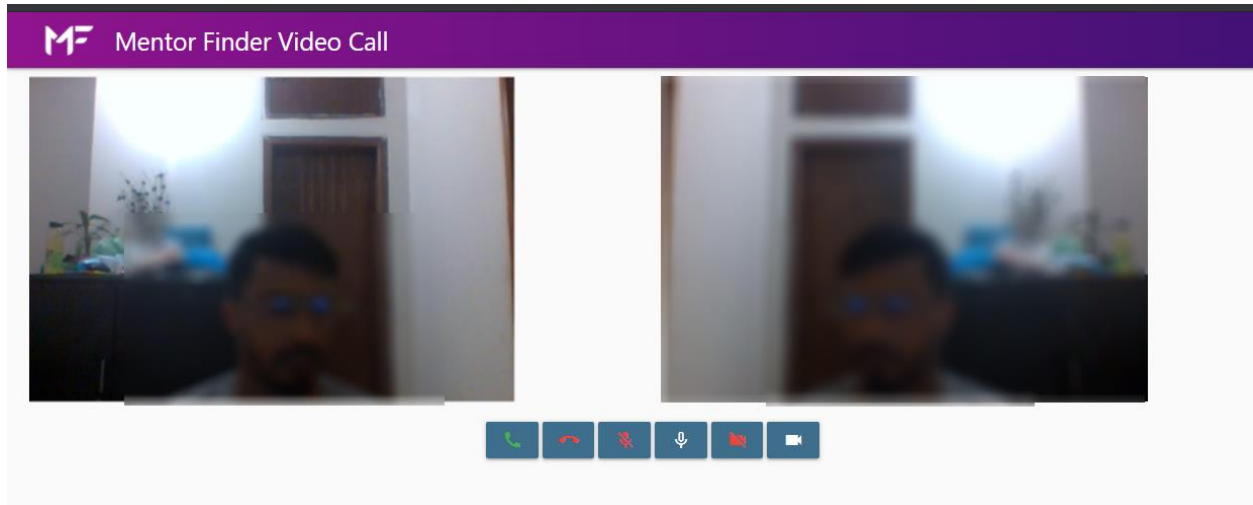
The screenshot shows the Mentor Finder dashboard from the perspective of a client. The top navigation bar includes the logo 'MF Mentor Finder', links for 'Home' and 'About', and a user profile for 'Test User' with a 'Logout' button. The main content area features a sidebar with buttons for 'Dashboard', 'History', and 'Profile'. The main table displays a list of appointments with the following data:

#	Mentor Name	Category	Apply Date	Appointment Date	View Mentor	Video Call	Is Visited
1	Will Smith	Career	25-09-2021	09-09-2021 at 03:38 AM	View		

The footer of the dashboard contains the text 'Copyright © Mentor Finder'.

4.6 Join The Video Call

Join the video call is so easy . After getting the video call option and appointment date time now you just have to click on the video call icon to join the video call conference. Now the mentor and you both call talk to each other.



Turnitin Originality Report

Processed on: 2021年10月03日 17:06 +06
 ID: 1663744632
 Word Count: 2939
 Submitted: 1

151-35-1126 By Md. Ahanaf Islam

Similarity Index

18%

Similarity by Source

Internet Sources: 14%
 Publications: 1%
 Student Papers: 11%

4% match (student papers from 12-Apr-2018)
 Class: April 2018 Project Report
 Assignment: Student Project
 Paper ID: [945362079](#)

3% match (Internet from 28-Jul-2019)
<http://dspace.daffodilvarsity.edu.bd:8080/bitstream/handle/123456789/2940/P12395%20%285%25%29.pdf?isAllowed=y&sequence=1>

2% match (student papers from 26-Apr-2013)
[Submitted to Hong Kong Baptist University on 2013-04-26](#)

2% match (Internet from 04-Dec-2019)
https://seriss.eu/wp-content/uploads/2019/08/SERISS-Deliverable-3.13_multilingual-coding-platform.pdf

1% match (Internet from 18-Jan-2020)
<http://dspace.daffodilvarsity.edu.bd:8080/bitstream/handle/123456789/3523/P13624%20%2817%25%29.pdf?isAllowed=y&sequence=1>

1% match (Internet from 08-Sep-2021)
<http://dspace.daffodilvarsity.edu.bd:8080/bitstream/handle/123456789/2516/P11641%20%2823%25%29.pdf?isAllowed=y&sequence=1>

1% match (Internet from 04-Dec-2020)
<http://dspace.daffodilvarsity.edu.bd:8080/bitstream/handle/123456789/4606/161-15-953%3D%2049%25.pdf?isAllowed=y&sequence=1>

1% match (Internet from 27-Sep-2021)
<http://etd.au.edu.et/bitstream/handle/123456789/2257/Helen%20Asamnew.pdf>

1% match (student papers from 01-Apr-2014)
[Submitted to University of Mauritius on 2014-04-01](#)

1% match (student papers from 22-Sep-2015)
[Submitted to Study Group Australia on 2015-09-22](#)

< 1% match (student papers from 03-Apr-2018)
 Class: Article 2018
 Assignment: Journal Article
 Paper ID: [940307303](#)

< 1% match (student papers from 06-Jun-2020)
[Submitted to University of Wolverhampton on 2020-06-06](#)

< 1% match (student papers from 06-Sep-2020)
[Submitted to Universidad de Alcalá on 2020-09-06](#)

< 1% match (Internet from 02-Mar-2012)