

**AN ORGANIZATION MANAGEMENT WEB APPLICATION  
WITH DAILY NEEDS**

**BY**

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This Report conferred in Partial Fulfillment of the Requirements for the  
Degree of Bachelor of Science in Computer Science and Engineering

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**DAFFODIL INTERNATIONAL UNIVERSITY**

**DHAKA, BANGLADESH**

**JANUARY 2023**

## APPROVAL

This project titled “An Organization Management Web Application with Daily Needs”, submitted by Muhammad Mahmudul Hassan, ID no: 191-15-2711 and Shahid Monowar, ID No: 191-15-2737 to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on January 25,2023.

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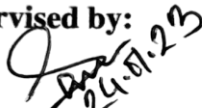
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## DECLARATION

We herewith declare that, this project has been done by Tech Specter under the direction of Taslima Ferdaus Shuva, Assistant Professor, Department of Computer Science and Engineering, Daffodil International University. we conjointly declare that neither this project nor any a part of this project has been submitted elsewhere for award of any degree.

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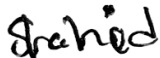
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Finally, we tend to should acknowledge with due respect the constant support and patients of our Parents.

## **ABSTRACT**

“An Organization Management Web Application with Daily Needs” is a web-based application will help those users who want to make their life easier and secure. This application can be used by anyone specially the students, quadragenarian and quinquagenarian. In this era, we veritably depend on online so, we try to make a website which provide our basic needs by clicking a single link. In this application, user have to log in to our system easily for getting services. Here admin can also login and view user profile. Our website is very friendly for a user so that they can choose easily which service they want, user can edit their profile and send their contact information to the admin. We know there are lot of fake website and frauds in this internet world. Our website is fully admin controlled and they are enough perfect to provide best and accurate deals to the users. User can be getting amazing resources, great source of information for travelers, reading vlogs and most important is blood management in our project, there are lot of services provide which we need in our mechanical life. We already said we try to focus those who are students, quadragenarian and quinquagenarian because they are fear of making miscalculations. We are here to provide best and secure service.

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# CHAPTER 1

## INTRODUCTION

### 1.1 Introduction

We face multitudinous needs in our diurnal lives. Our application is basically developed to fulfil our needs as our site –getting amazing resources, great source of information for travelers, reading vlogs and most important is blood management. It is an automated website where anyone can buy anything from anywhere. Which saves you valuable time and money. It gives you a simple marketing experience and makes your life easier. This has reduced the cost and also limited the cost of work for an online system. User can select and order any item they like. Check their item when delivery is over. Also they can put review and ratings on each sections and many more.

### 1.2 Motivation

Suppose I am 52 years old now. Now I like to travel SINGAPORE. I am not familiar with online searching. But now I use this website which can provide best offer gathered by admin. From this scenario, we realize how can it help me. As a student I need to develop my skills and sometimes I need to go to travel for refreshment. That's all I can get by using this application. Reading blogs is best practice now. It also in our application. The system also has a blood donor module, which allows users to register for blood donations and locate blood groups for future use. One can request for blood, donate blood. Blood for humanity.

## 1.3 Objective

Our main goals are to assist users:

- The web site is designed to be delivered in any place and in any moment in very little time and to low cost.
- Creating a system to obtain all the service from any place and in any moment.
- To create a web site that has sure options of payment.
- Get blood

A user can

Grab best courses

- Choice best courses (best reviewed teacher)
- Enroll easily
- Review
- Payment

For travelling

- Choose various Category
- User friendly schedule
- Review
- Easy Payment system
- get idea plan for travel

## Blogs

- Categorized blogs help to increase once knowledge.

## Blood

- Donate blood
- Request blood
- Check donor list

## Dashboard

- Order details
- Add review

## Login

- Multiple way for registration

## **1.4 Report layout**

### **1.5.1 Development and Implementation**

Now, in this stage we convert our design into programming code. So our program was developed using visual studio code and "https://localhost:3000" for the live server. We have used different languages and frameworks on our project, such as React JS, JavaScript, HTML5, CSS, Bootstrap, Firebase Auth, Node JS, Express JS, JWT(JavaScript Web Token), etc.

### **1.4.2 Testing**

When a project development is complete then the testing face come.

### **1.4.3 Testing List**

- Testing for Functionality
- Usability Evaluation
- Testing of the interface
- Database Validation
- Performance Evaluation
- Testing for security

#### **1.4.3.1 Testing for Functionality**

Functionality testing is used to check the linkages between pages, database connection, form testing, and cookie.

Function including-

- Without filling a compulsory field, then miscalculation message are going to be shown.
- Default values are going to be checked once more.
- Users same data won't be accepted once more within the information.

Check the HTML and CSS.

- Check for a syntactical error.
- Color Schemas that may be read
- Check for conformity with standards like OASIS.

#### **1.4.3.2 Usability Evaluation**

Testing of navigation:

Button, menu, links and other options should function properly in a variety of situations size of pages and dependable in all situation's devices.

Content Evaluation:

✓The grammar and spelling errors mistakes are checked.

### **1.4.3.3 Testing of the interface**

The correct interaction between users input worth and therefore the server for databases square measure checked by interface testing. Interface testing confirms regarding not showing error.

### **1.4.3.4 Database Validation**

Database validation is very important part of any web-based software.

- Also checks the reaction time of question dead within the information.
- Read from the info base and shows the similarity of the data.

### **1.4.3.5 Testing for Compatibility**

Browser Support Test:

Any browser can support the website within the same method can responsive be in numerous devices. Each and every function will function in a variety of browsers, including Opera Mine, Google Chrome, and Mozilla Firefox etc. as well as checking your smartphone browsers.

### **1.4.3.6 Performance Evaluation**

Performance evaluation monitor web stress and web load. Web load testing monitor for the same page can be accessed by multiple users at the same time. Also, a webpage can withstand a large weight or not. This stress testing monitors about the site that how it performs and recovers from a stressful period.

- The speed with which the application responds are determined by the internet connection.
- Reduce the amount of time it takes for the server-side cache to be enabled.
- Sometimes the appliance crashes because of most load, from such a happening, however can our website's recovery it.

#### **1.4.3.7 Testing for security**

- Users cannot access secure pages while not work in.
- Long time inactive user sessions are mechanically deleted

#### **1.3.1 Stakeholder**

Those who are exploiting our web system are our stakeholders. The whole stoner are stakeholders.

### **1.5 Expected Outcome**

This work is perfect for demonstrating as a prototype to others or for showcasing in academic systems. Our scheme's versatility allows it to be acted for an extended scale of services and conditioning for users. There is an online service system, sometimes known as a Web-based pattern, that allows user to take their service and save their valuable time. The services will be available internationally. The services will provide all the time to the client.



# CHAPTER 2

## BACKGROUND ANALYSIS

### 2.1 Developing the Website

Right now in online, plenty of services available but none of them provide multiple service at a single place like us. In our website user gets the actual multiple service provide by admin. Behind this project our actual goal is to save one's time and providing best service by analyzing the market.

This approach, on the other hand, helps the user to take their best decision in a short time.

### 2.2 Related Work

2.2.1 10-minute school[4] is an application based on online education system. Here user can find various types of courses and information. This application is dedicating only for education. This a single category based application.

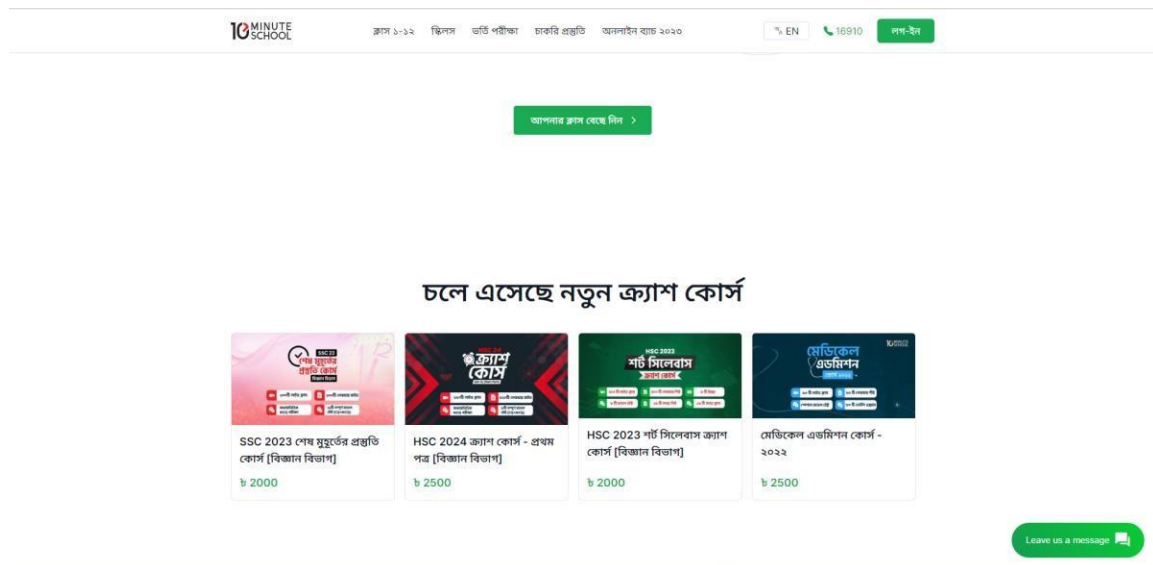


Figure 2.1: Home page of this application

2.2.2 Travel Mate[5] is a site for travelling and vlogs. This site gives us knowledge about various places and packages. In our application we also provide this type of service by analyzing various type of company's offer.

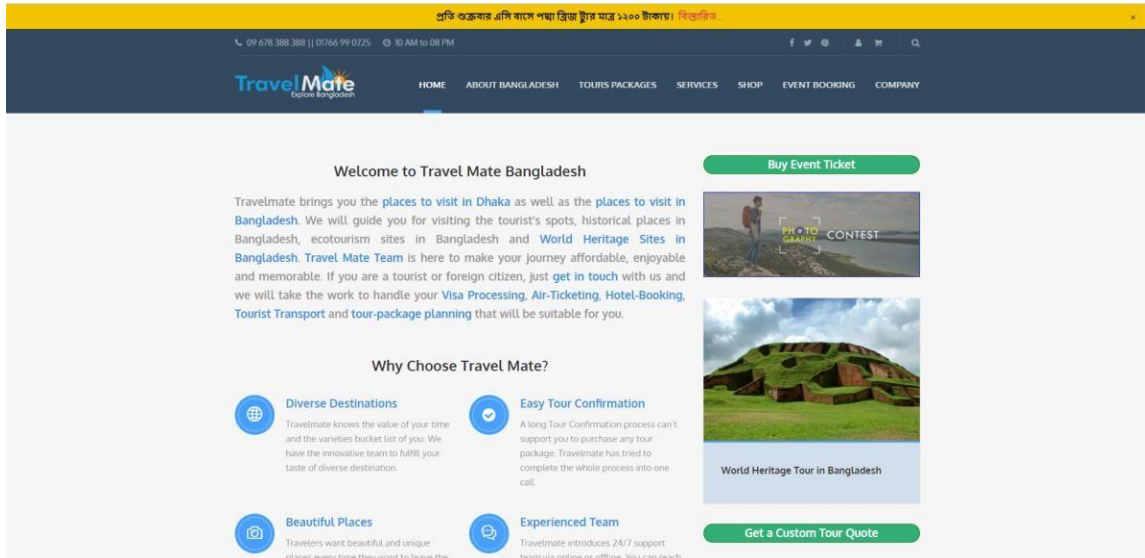
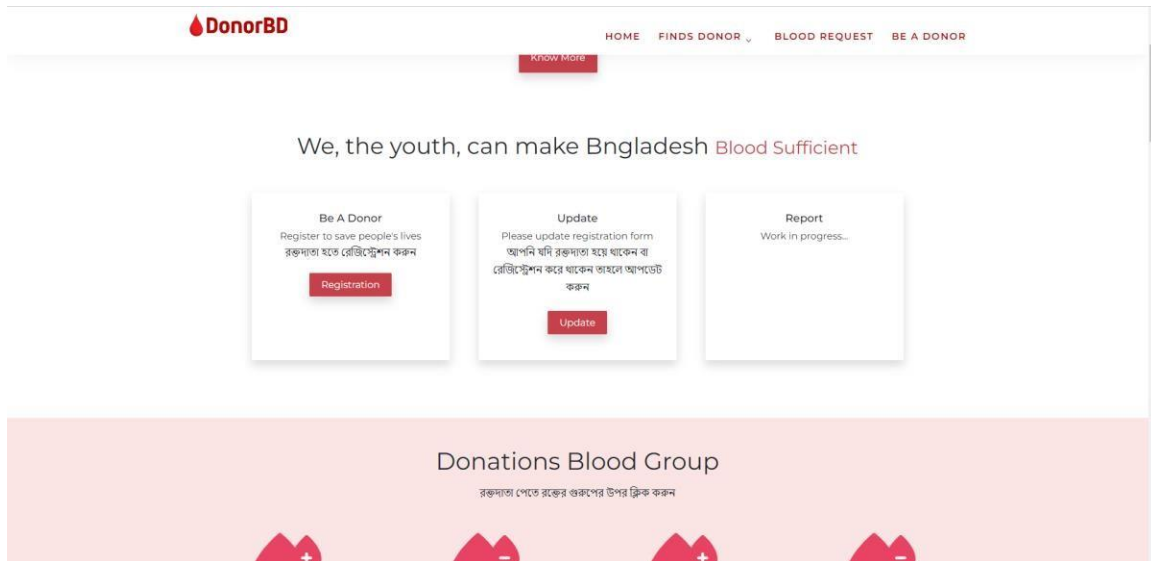


Figure:2.2 Travelmate home page

2.2.3 DonorBD[6] this site is also similar to our application. A user also can

- i. Donate blood
- ii. Request blood
- iii. Check donor list



**Figure 2.3:** Blood donating site home page

## 2.3 Scope of the Problem

Without problem nothing is impossible. All system has some problems. we also face some problems in real life and we will try to solve this.

We can recapitulate a problem here:

- People do not have complete trust in online systems; hence they do not reap the full benefits of these systems.
- There is a manual mechanism for order, but it is all done online.
- Using a variety of platforms may not be sufficient for all user.

The system can be accessed at any time and from any location. This system is highly straightforward and user-friendly; a few examples are:

- There is huge collection of donor.
- Anyone can get blood on time.
- Smart way of appointment.
- Can upload prescription for future
- Reduce cost
- Best courses
- Can know acceptability by rating and many more.

## 2.4 Challenges

Reliability and satisfaction is the main factor of a perfect website. Our main challenges are to ensure the reliability and satisfaction to the user. However, choosing a suitable platform and relying on hardware is an important issue. These Projects have been created for the Bangladeshi Patient and Doctors help assistance.

Every job has its own set of difficulties. As a result, we must also face a modest number of challenges.

- Because it's a Web-based system, folks that ought to build appointments and bookings on-line victimization any web-connected device (computer, laptop, sensible phone, tablet, etc.) would be unable to try and do so.
- If a user fails to review the notification for confirmation of a booking, the system's main goal will be failed.

For this we perfectly maintain those requirements-

- UI and UX design
- Security
- Performance
- Authorization
- Scalability

# CHAPTER 3

## REQUIREMENT SPECIFICATION

### 3.1 Business Process Modeling

BPM is the modeling business process so that they can study, modified and automated. Here is the used model:

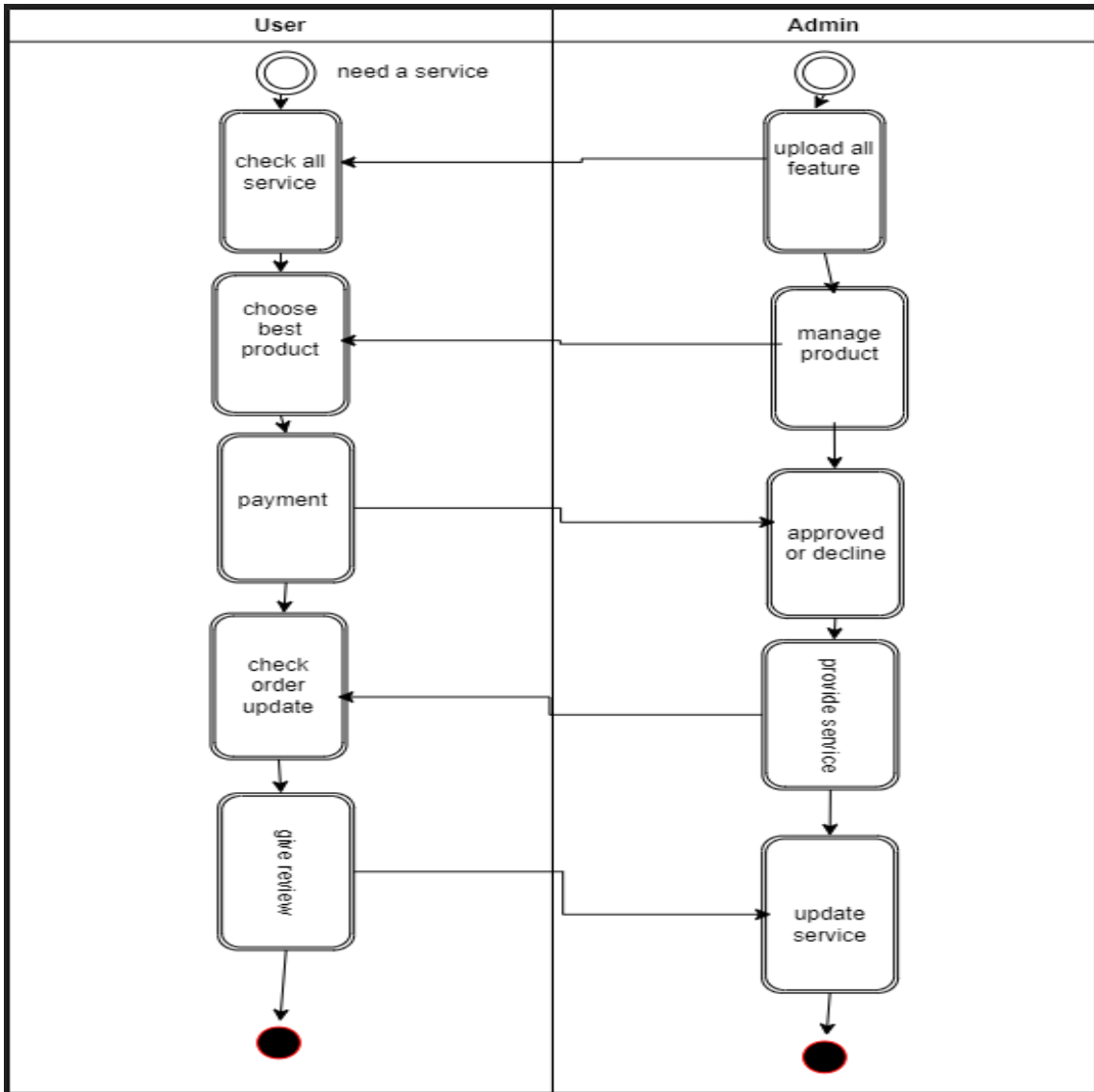


Figure 3.0: Business Process Model

## **3.2 Hardware and Software Requirements**

### Hardware Requirements

- Minimum storage 1GB
- Fast bandwidth connection
- Laptop, desktop or Smart phone

### **3.2.1 Requirement Collection**

#### Software requirement

- Admin, User
- Select any product
- Time convenience
- User friendly
- Login system
- Update personally

#### Software Requirements

- OS: Windows/MAC/Linux
- Language: PHP
- Database: MongoDB
- Any browser

### 3.3 Use Case Modeling

This represent various types of users and their activities.

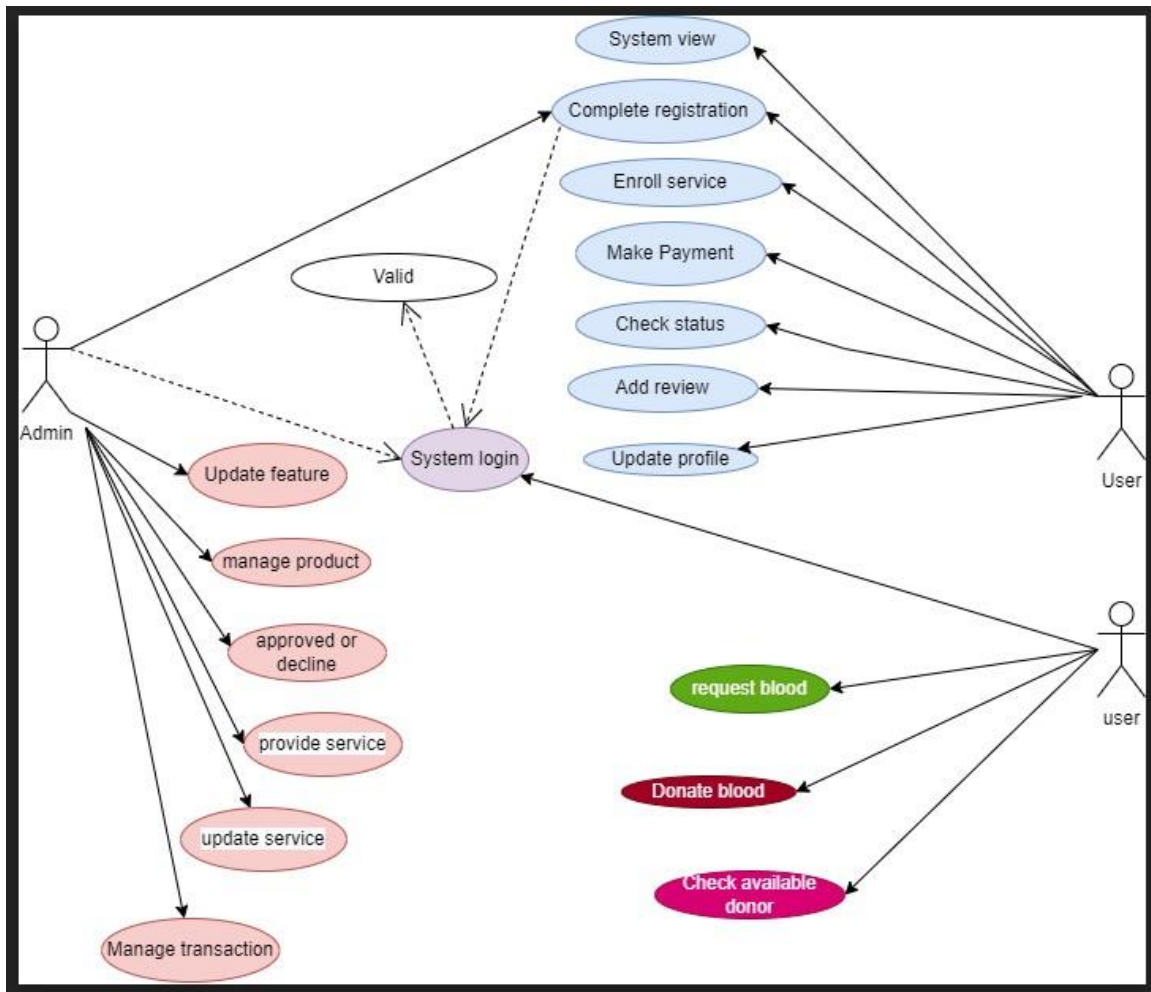


Figure 3.1: Use Case Diagram

### 3.4 Class Diagram

This process used to identify and analyses requirement needed to support the business processes within the help of corresponding information systems in organizations.

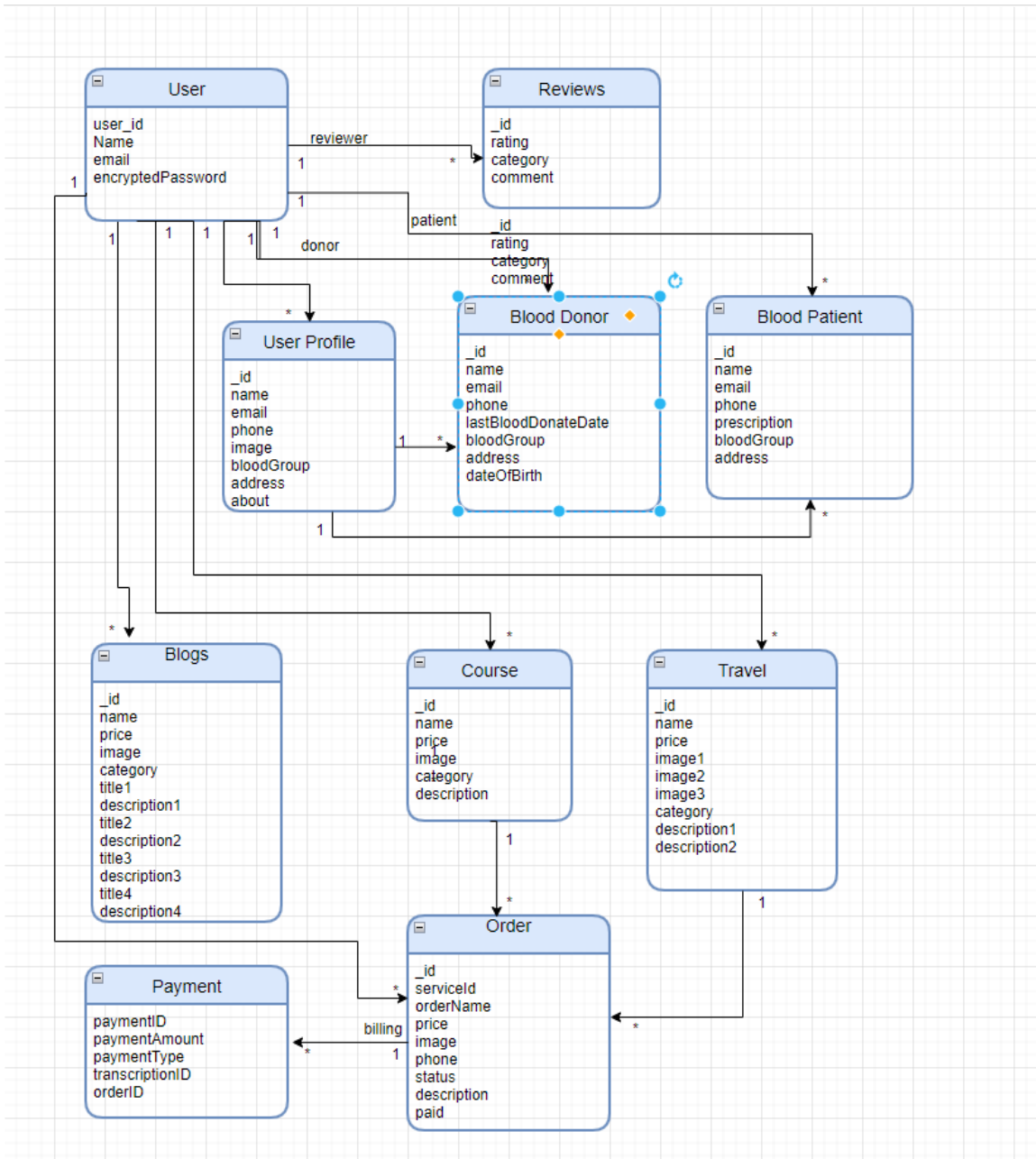


Figure 3.2: Class Diagram



### 3.5 Activity Diagram

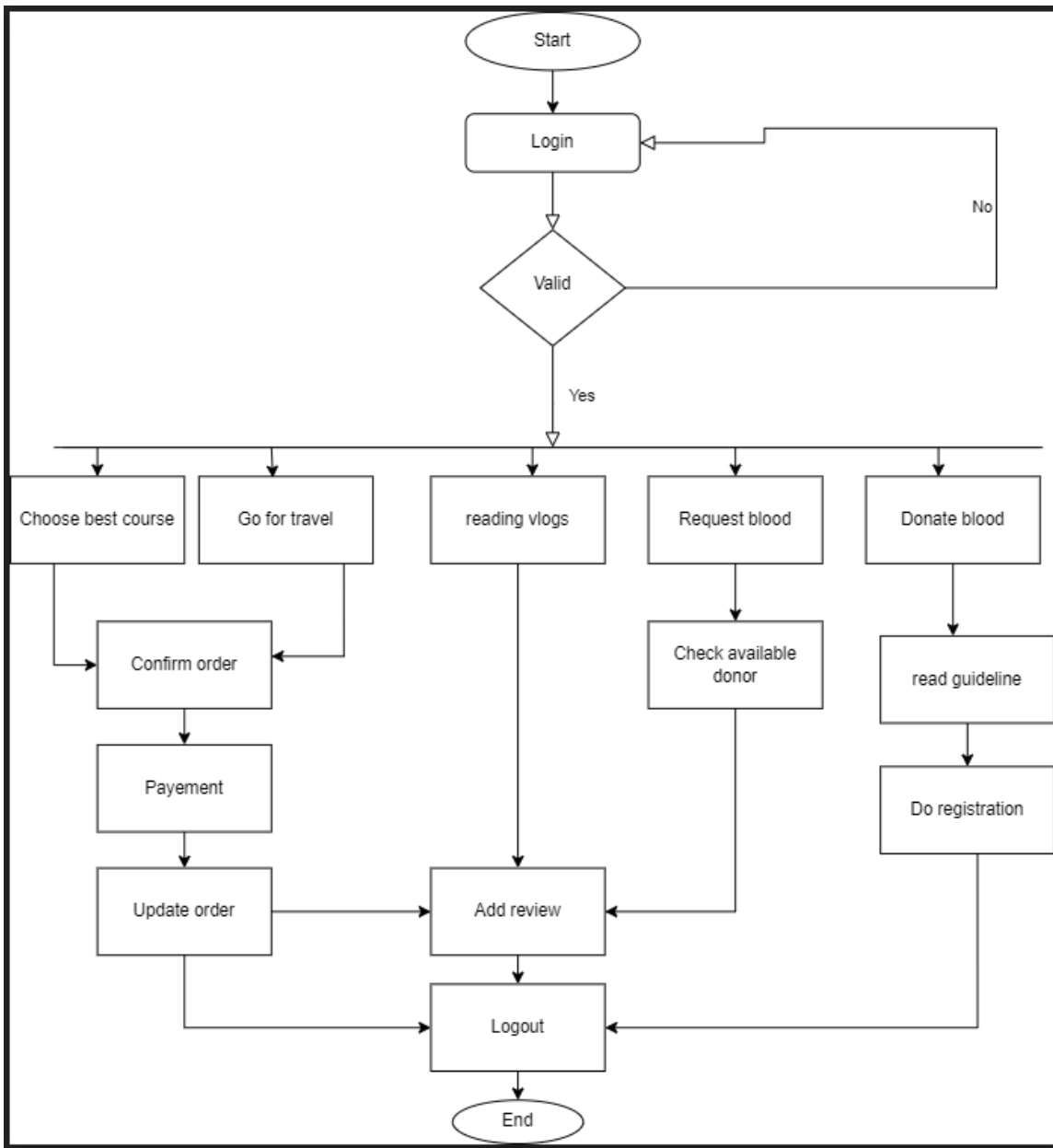
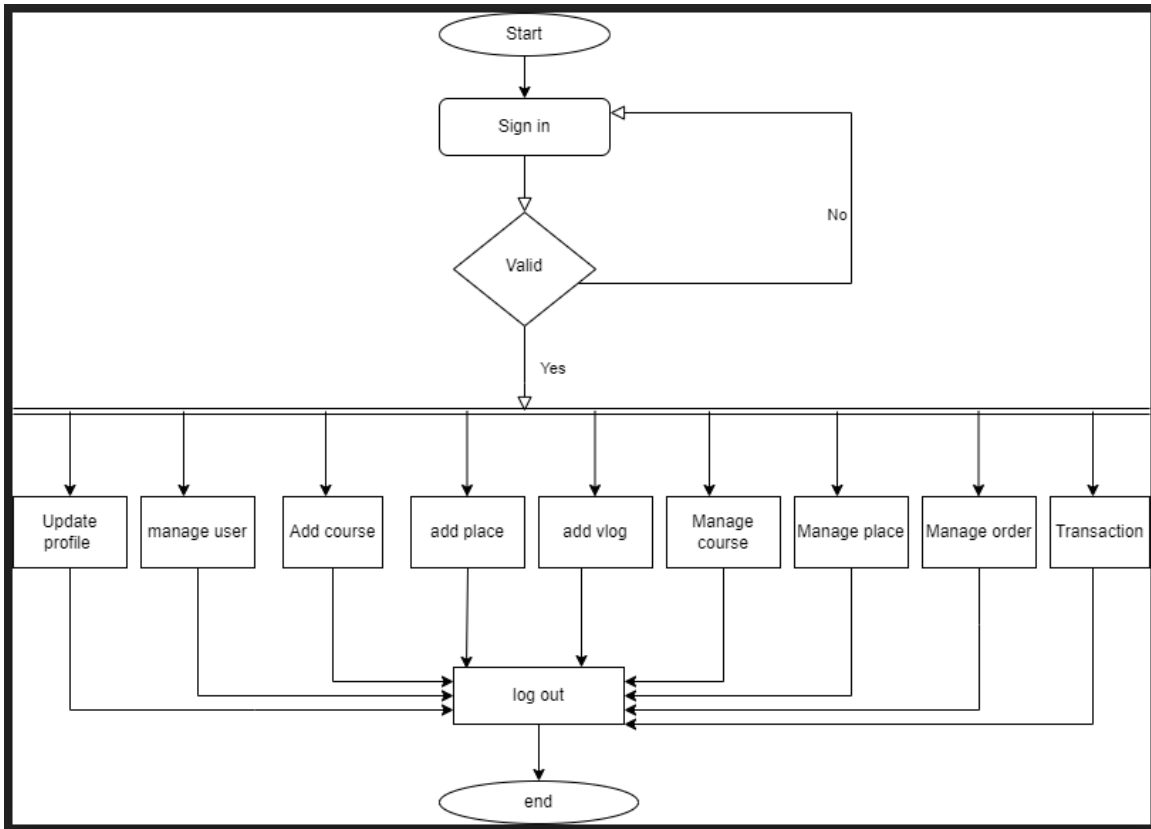


Figure 3.3: Activity Diagram for user



**Figure 3.4:** Activity Diagram for Admin

### 3.6 E-R Diagram

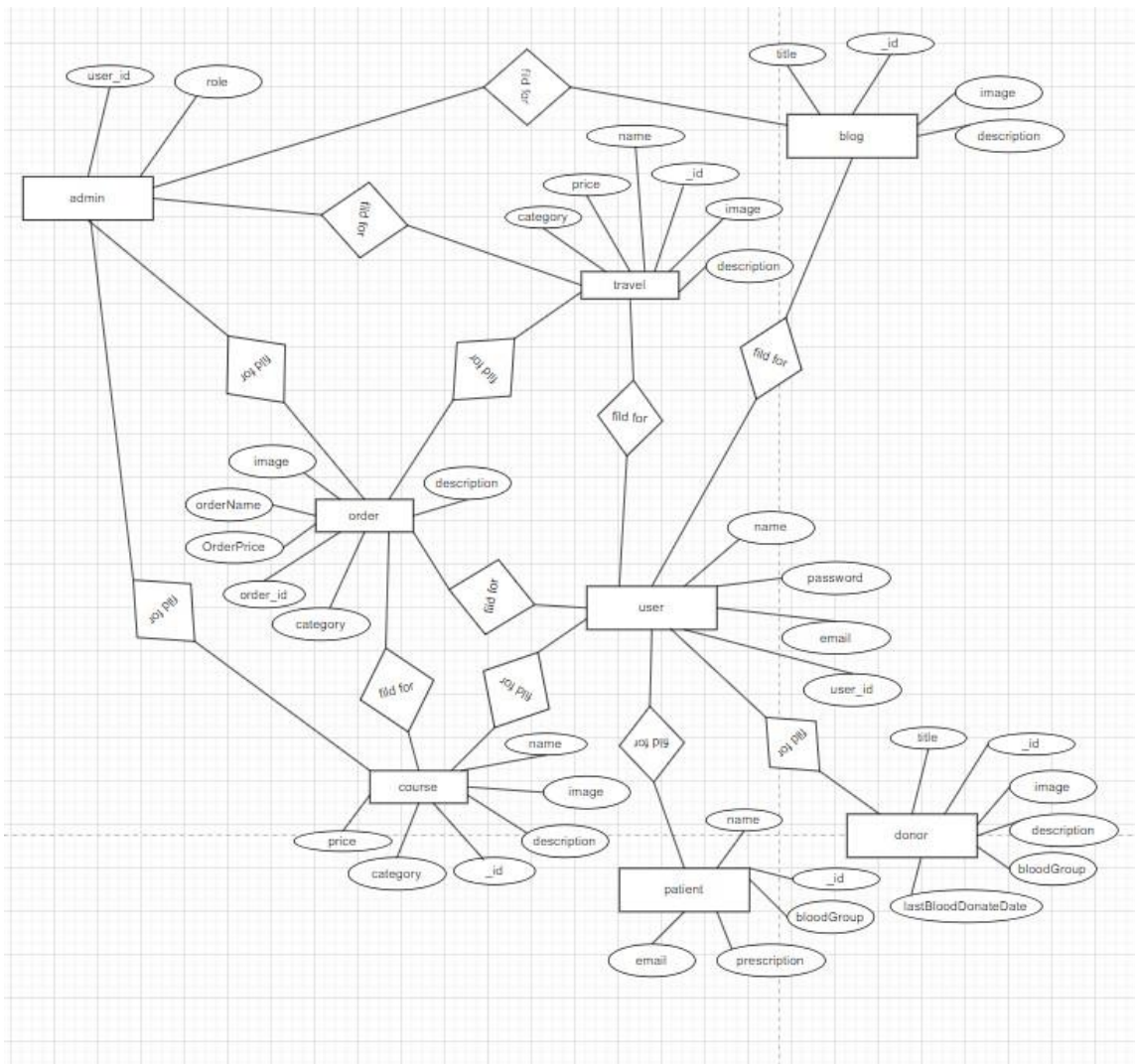


Figure 3.5: Activity Diagram

# CHAPTER 4

## DESIGN SPECIFICATION

### 4.1 Front-end Design

#### Admin panel

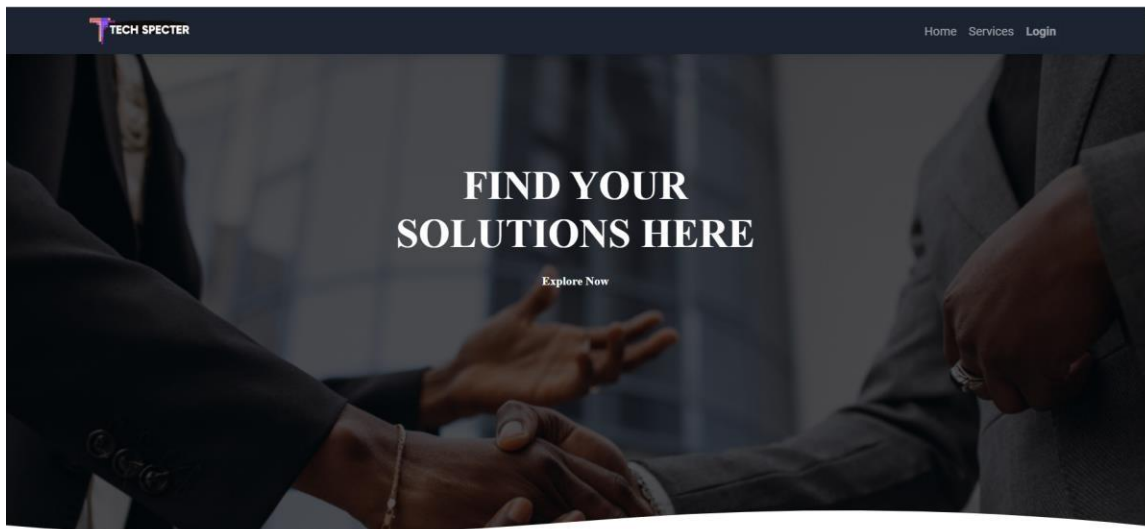


Figure 4.0: Homepage

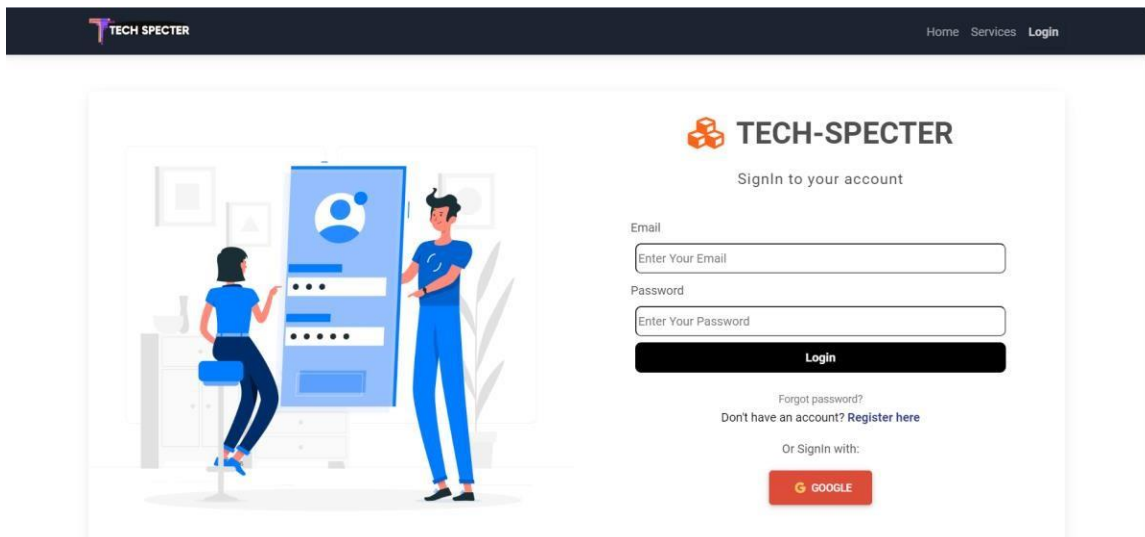
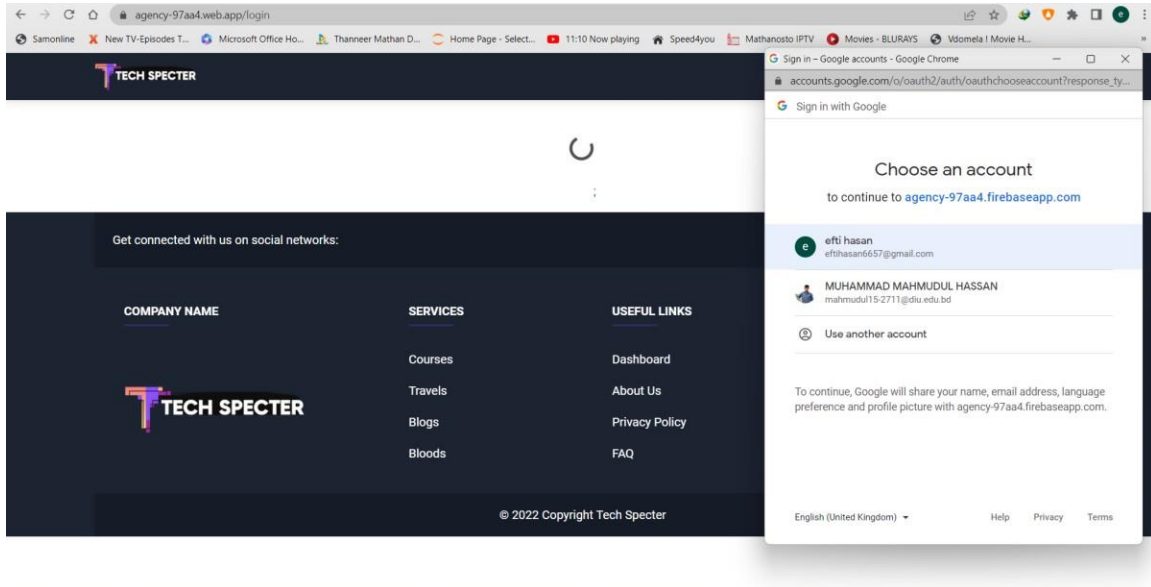
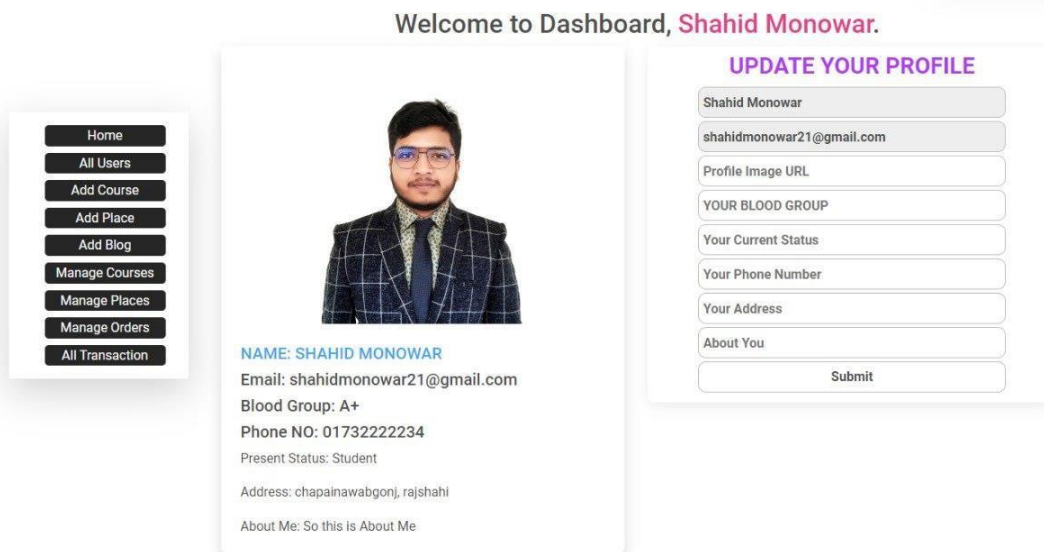


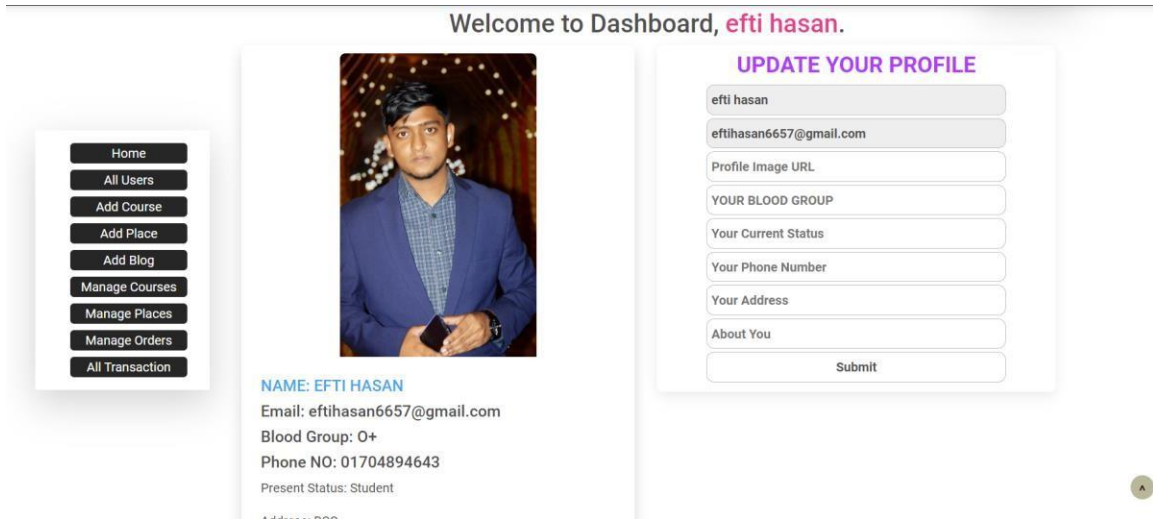
Figure 4.1: Login page



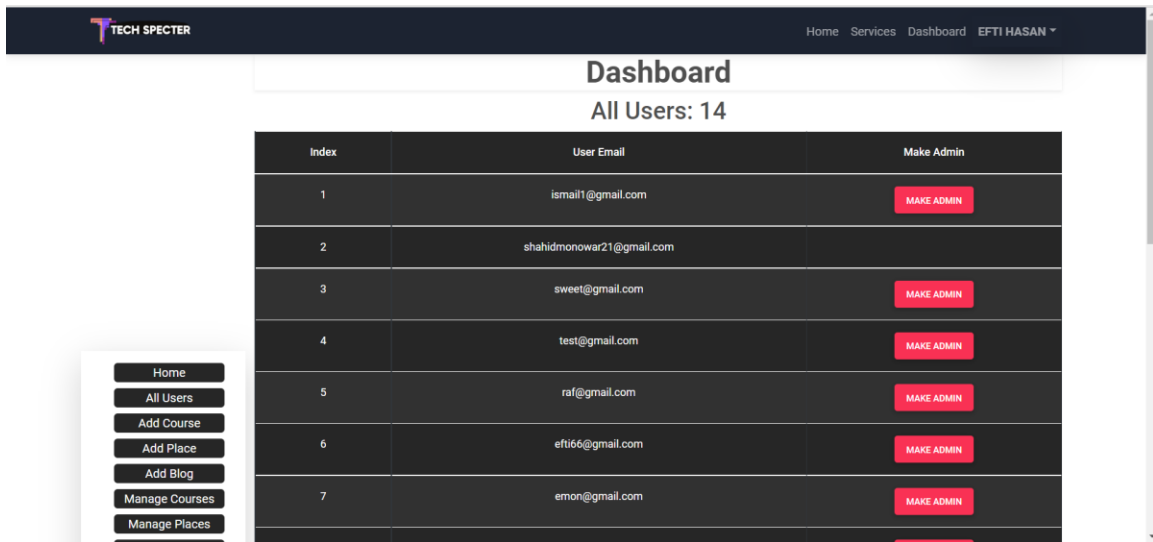
**Figure 4.2:** Multiple login



**Figure 4.3:** Admin panel 1



**Figure 4.4:** Admin panel 2



**Figure 4.5:** Manage users

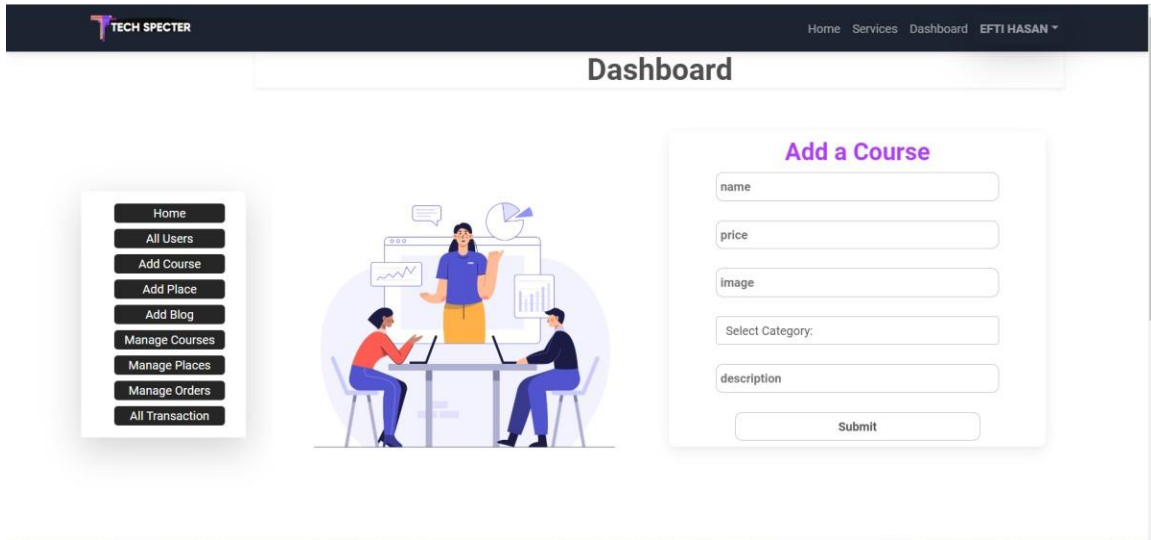


Figure 4.7: Add Course

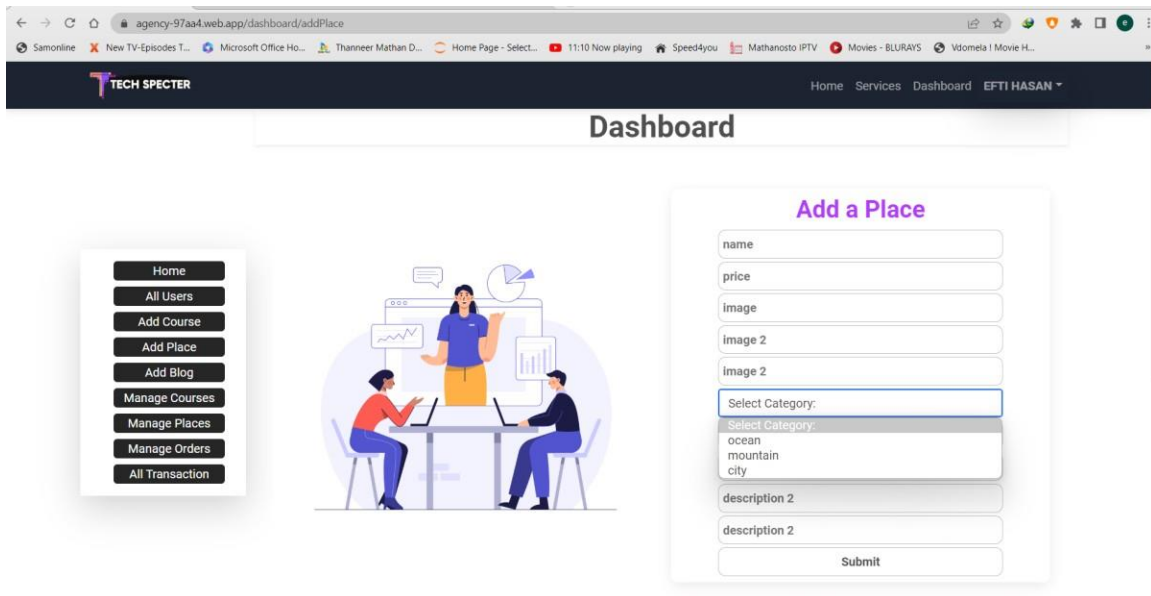


Figure 4.8: Add place

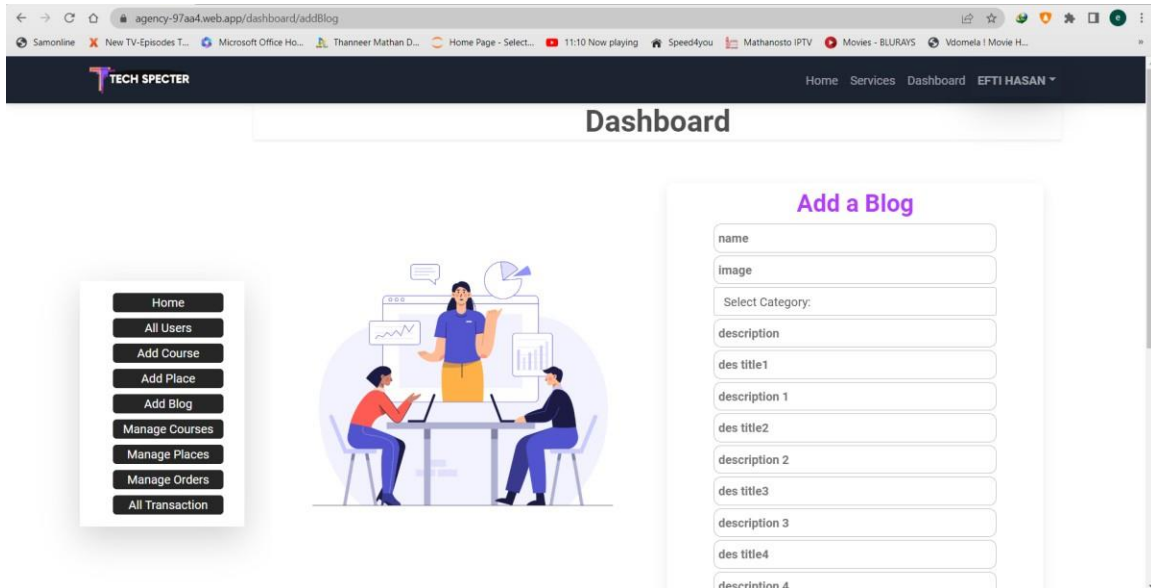


Figure 4.9: Update blog section

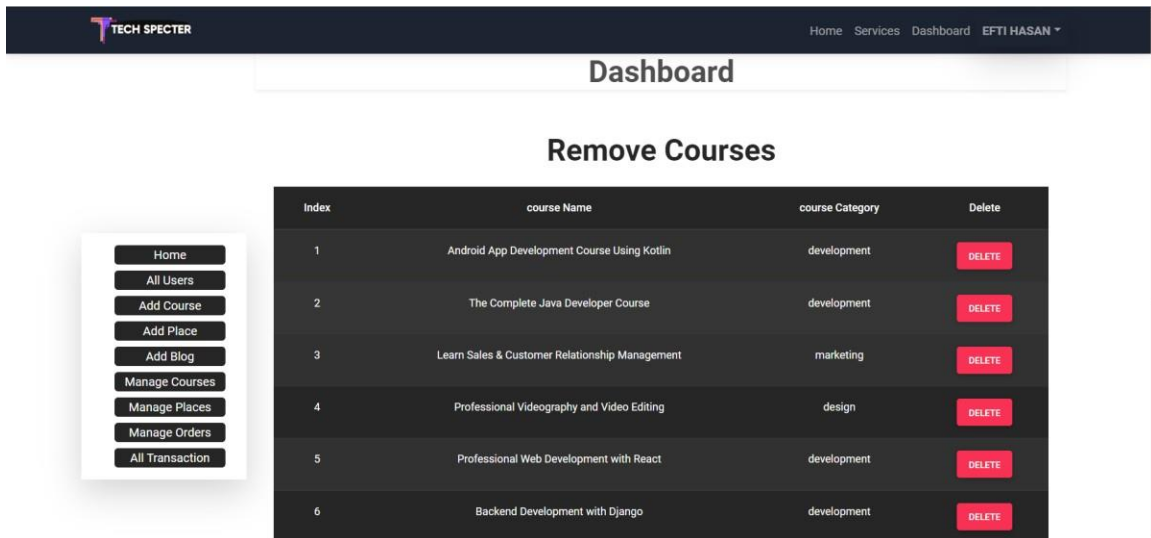


Figure 4.10: Remove course



**Dashboard**

### All Transaction Details

Index	Email	Order Name	Order Price	Transaction Id
1	test@gmail.com	Success to IELTS Writing	400	pl_3LkN1luMYzXtkmk26KJHL08
2	test@gmail.com	test	1230	pl_3LkT1vuMYzXtkmk0AGRaIRl
3	sweet@gmail.com	Professional Videography and Video Editing	3500	pl_3LlFwYluMYzXtkmk2GSmFDBg
4	emon@gmail.com	The Complete Java Developer Course	4000	pl_3LWTFluMYzXtkmk2nkFplnq
5	anfulhaque60332@gmail.com	The Complete Java Developer Course	4000	
6	emon@gmail.com	Thailand Tour (5 Days 4 Night)	5600	pl_3LogYXluMYzXtkmk2KzyTlDx
7	nurul@gmail.com	Egypt Tour (4 Days 5 Night)	6000	
8	ikemon306@gmail.com	Professional Videography and Video Editing	3500	pl_3LlNckluMYzXtkmk2x8KccK7
9	efthasan6657@gmail.com	Android App Development Course Using Kotlin	3500	pl_3Ly8M7luMYzXtkmk2PHZXWd5
10	efthasan6657@gmail.com	Singapore (3Nights 4Days)	4600	

Figure 4.11: Transaction section

**Dashboard**

### Remove Places

Index	place Name	place Category	Delete
1	Egypt Tour (4 Days 5 Night)	city	DELETE
2	Bali Tour (3 Days 4 Nights)	ocean	DELETE
3	Thailand Tour (5 Days 4 Night)	ocean	DELETE
4	Singapore (3Nights 4Days)	city	DELETE
5	Annapurna Base Camp Trek (4 Days 3 Nights)	mountain	DELETE

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COMPANY NAME: TECH SPECTER

SERVICES: Courses, Travels

USEFUL LINKS: Dashboard, About Us

CONTACT: Dhaka, PT 2323, BD, shahid@gmail.com

Figure 4.12: Remove place

agency 97aa4.web.app/dashboard/manageOrders

TECH SPECTER Home Services Dashboard SHAHID MONOWAR

### Remove and Approve Orders

Index	Email	Order Name	Order Status	Approve	Remove
1	test@gmail.com	Success to IELTS Writing	Confirmed	CONFIRM	DELETE
2	test@gmail.com	test	Confirmed	CONFIRM	DELETE
3	sweet@gmail.com	Professional Videography and Video Editing	Confirmed	CONFIRM	DELETE
4	emon@gmail.com	The Complete Java Developer Course	Confirmed	CONFIRM	DELETE
5	arifhaque60332@gmail.com	The Complete Java Developer Course	Pending	Not Paid	DELETE
6	emon@gmail.com	Thailand Tour (5 Days 4 Night)	Confirmed	CONFIRM	DELETE
7	nurul@gmail.com	Egypt Tour (4 Days 5 Night)	Pending	Not Paid	DELETE
8	ikemon306@gmail.com	Professional Videography and Video Editing	Confirmed	CONFIRM	DELETE
9	efthasan6657@gmail.com	Android App Development Course Using Kotlin	Pending	CONFIRM	DELETE
10	efthasan6657@gmail.com	Singapore (3Nights 4Days)	Pending	Not Paid	DELETE

- Home
- All Users
- Add Course
- Add Place
- Add Blog
- Manage Courses
- Manage Places
- Manage Orders
- All Transaction

Figure 4.13: Remove or approve orders

TECH SPECTER Home Services Dashboard EFTI HASAN

12	reshat@gmail.com	Android App Development Course Using Kotlin	Confirmed	CONFIRM	DELETE
13	efthasan6657@gmail.com	Singapore (3Nights 4Days)	Pending	Not Paid	DELETE
14	mahmudu15-2711@diu.edu.bd	Bali Tour (3 Days 4 Nights)	Pending	Not Paid	DELETE
15	taslima@gmail.com	Professional Videography and Video Editing	Pending	CONFIRM	DELETE
16	taslima@gmail.com	Singapore (3Nights 4Days)	Confirmed	CONFIRM	DELETE
17	taslima@gmail.com	Android App Development Course Using Kotlin	Pending	Not Paid	DELETE

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Figure 4.14: Order by user

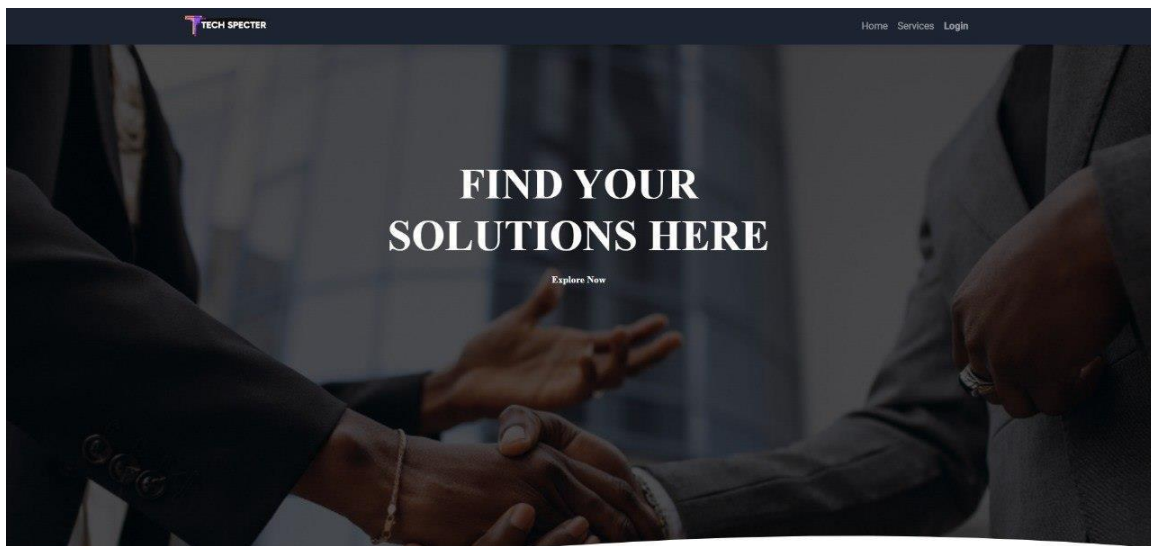
ID	User Email	Service	Price	Product ID
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13	eftihasan6657@gmail.com	Singapore (3Nights 4Days)	4600	
14	mahmudul15-2711@diu.edu.bd	Bali Tour (3 Days 4 Nights)	6600	
15	taslima@gmail.com	Professional Videography and Video Editing	3500	pl_3MKoRYluMYzXtkmk1zvvU1d9
16	taslima@gmail.com	Singapore (3Nights 4Days)	4600	pl_3MKoZyluMYzXtkmk1RvXyMGS
17	taslima@gmail.com	Android App Development Course Using Kotlin	3500	

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**Figure 4.15: Order transaction by a respectable user**

## User interface



**Figure 4.16: Homepage from user end**

## SERVICES

WHAT WE PROVIDE TO YOU!



About

### Develop your career with amazing resources [Grab your best courses]

An online learning platform is a web space or portal for educational content and resources that offers a student everything they need in one place: lectures, resources, opportunities to meet and chat with other students, and more.

Development

Design

Marketing

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About

### Best travel agency websites are a great source of information for travelers. [We are here for you.]

If a man stays at one place for a long time, he becomes monotonous and his life becomes boring and callous. Traveling removes our monotony and gives pleasure. Similarly, it also broadens our outlook and refreshes our mind. A good traveler can easily educate others.

Date Analysis

Pickup Transportation

Tent Benefit

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About

### Reading blogs will not only keep you updated with information but can help you in [Becoming a great person as well]

However, following a positive attitude as well as spreading that rationalist to other people will make your skills more rewarding. This blog will help you in becoming that positivist social butterfly with its everyday tips on how to be a better person as well as how to build stronger skills. Believe me, you will be surprised after reading a few posts.

Development

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About

### Blood donation is a safe process. Patient need blood for their treatment. [Donate your blood or collect if needed]

However, following a positive attitude as well as spreading that rationalist to other people will make your skills more rewarding. This blog will help you in becoming that positivist social butterfly with its everyday tips on how to be a better person as well as how to build stronger skills. Believe me, you will be surprised after reading a few posts.

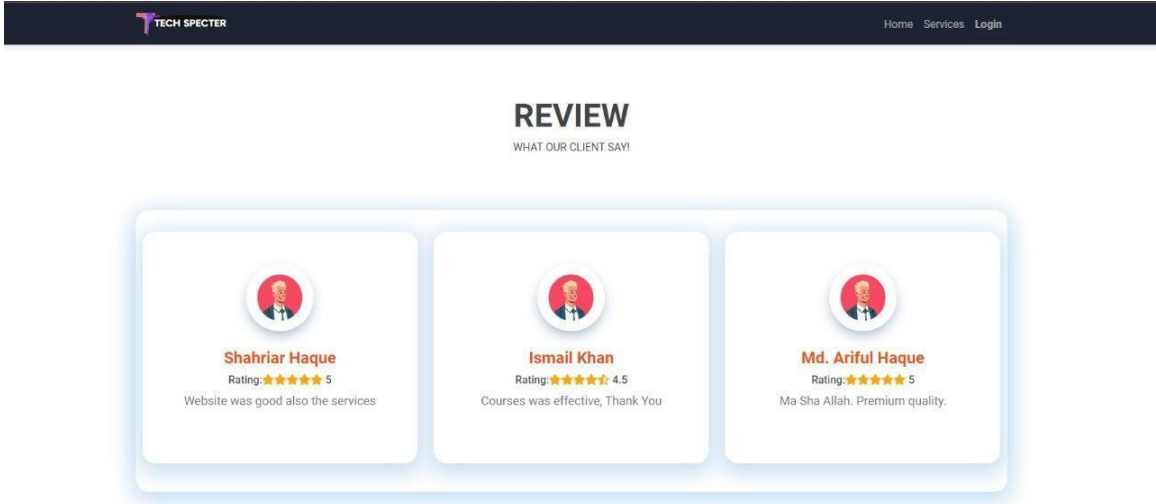
Blood Donation

Platelet Donation

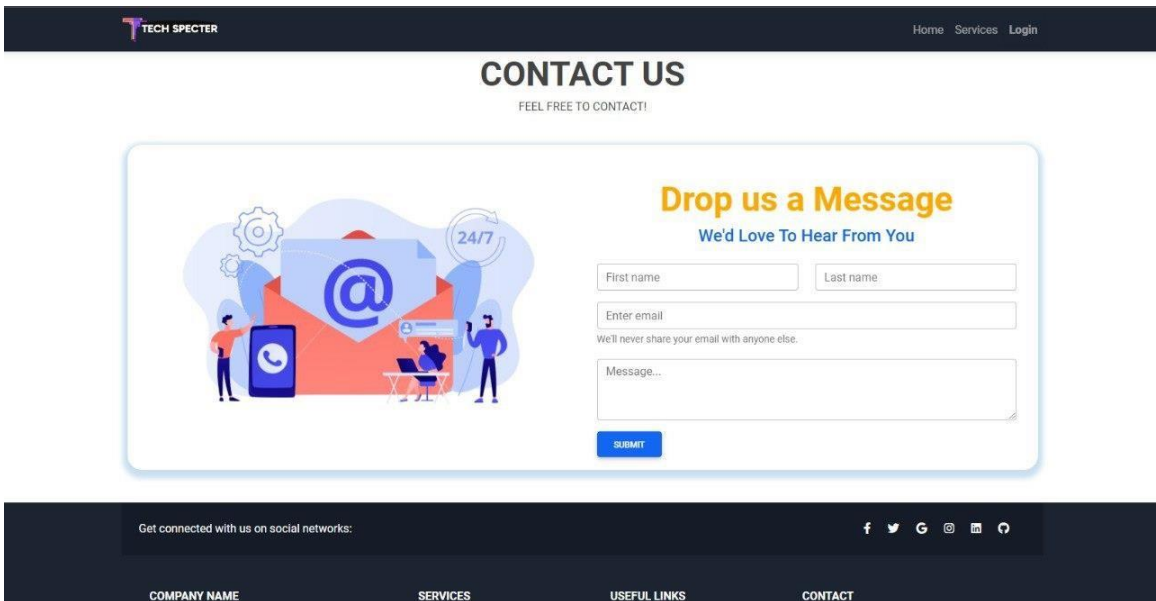
Plasma Donation

VIEW ALL BLOGS

Figure 4.17: All services



**Figure 4.18:** Review section



**Figure 4.19:** Contact section

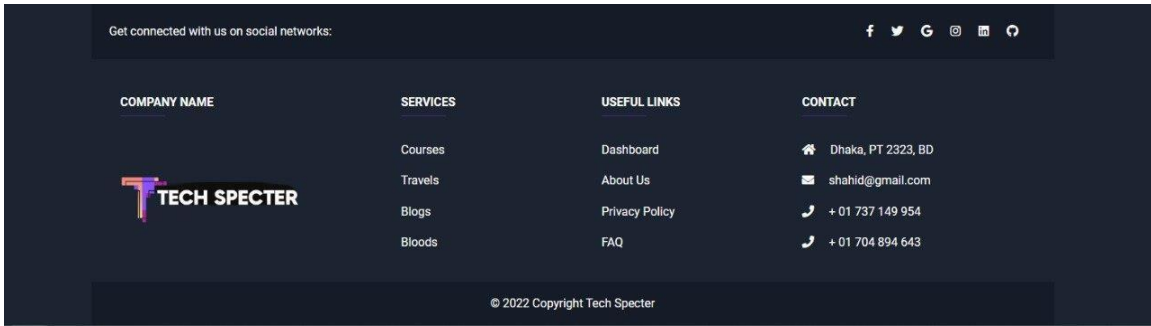


Figure 4.20: Footer

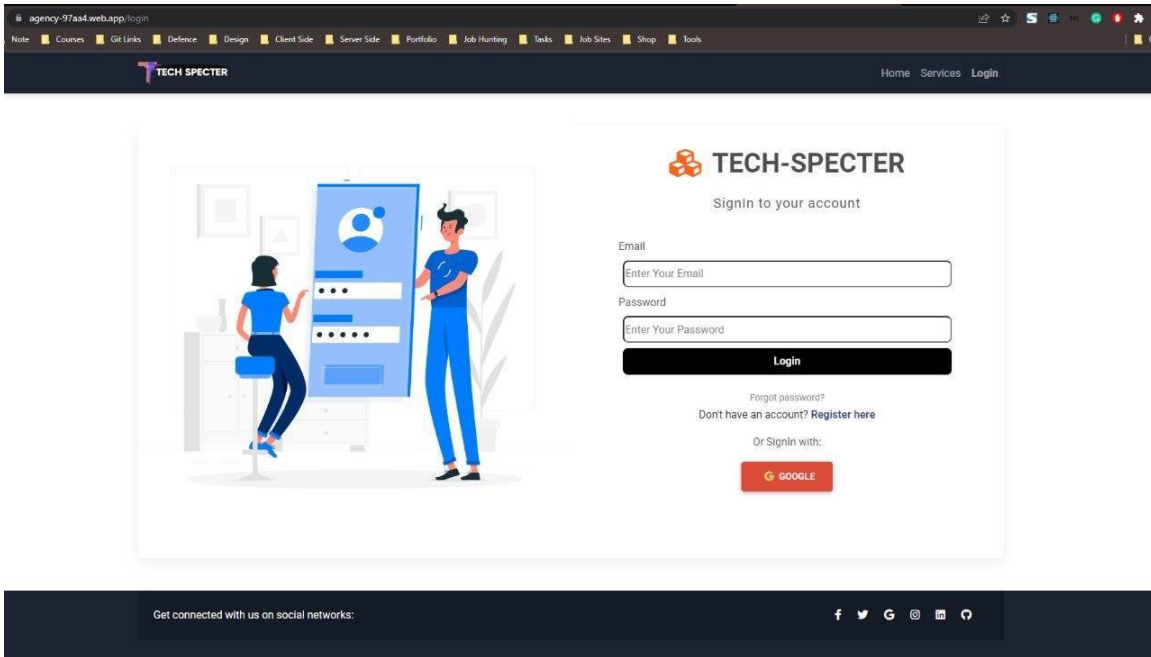


Figure 4.21: Login for User

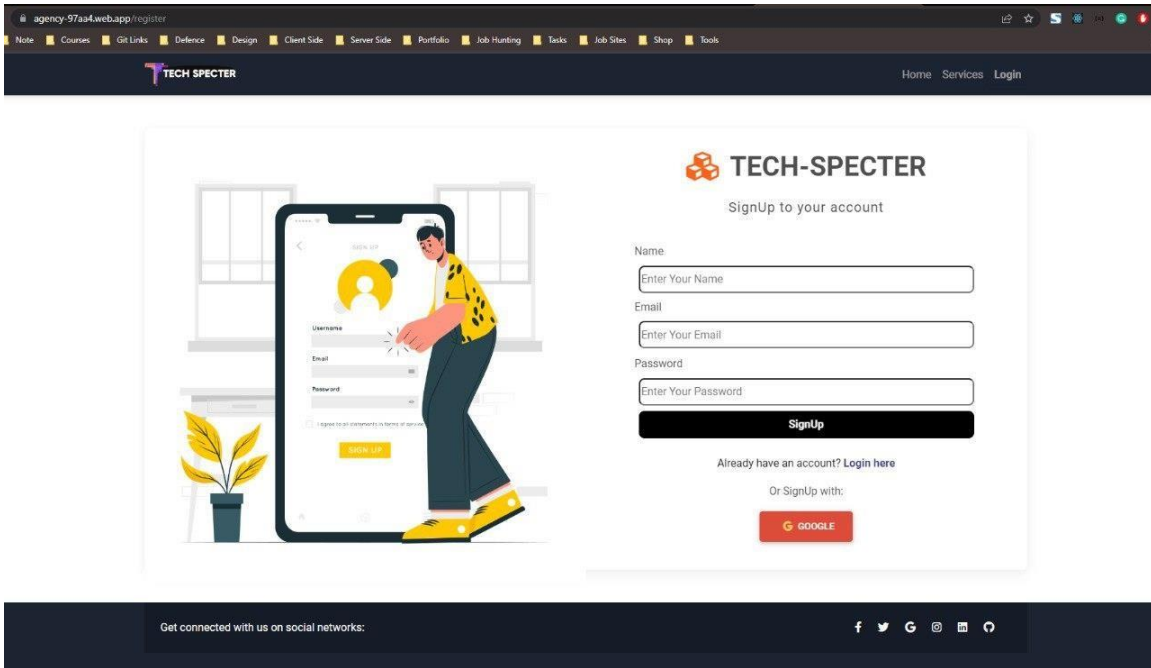


Figure 4.22: Registration panel

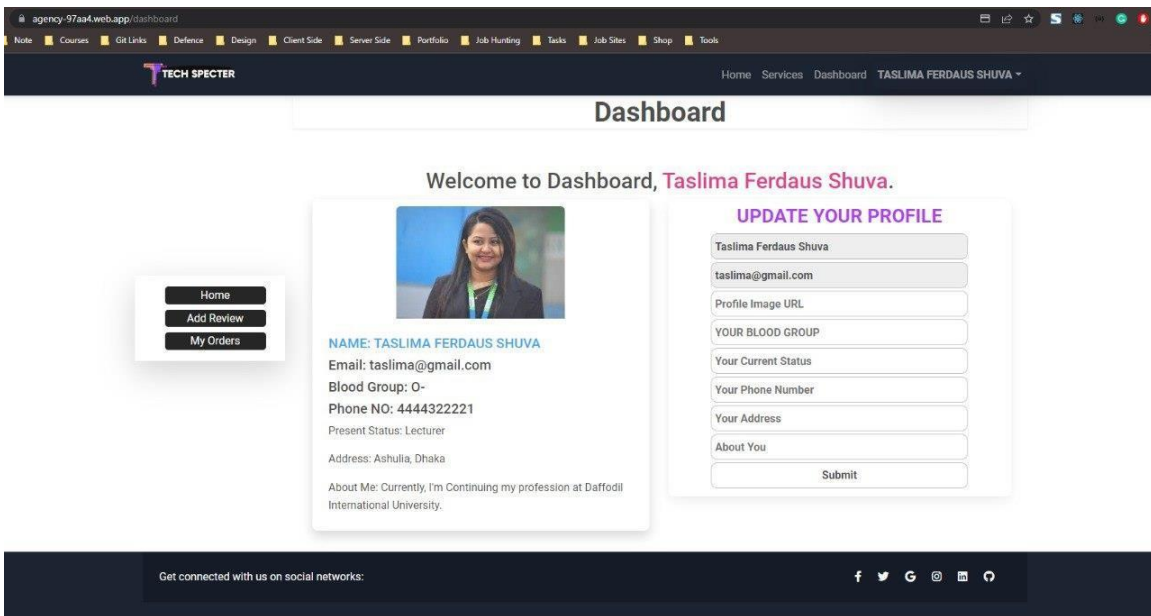


Figure 4.23: User profile



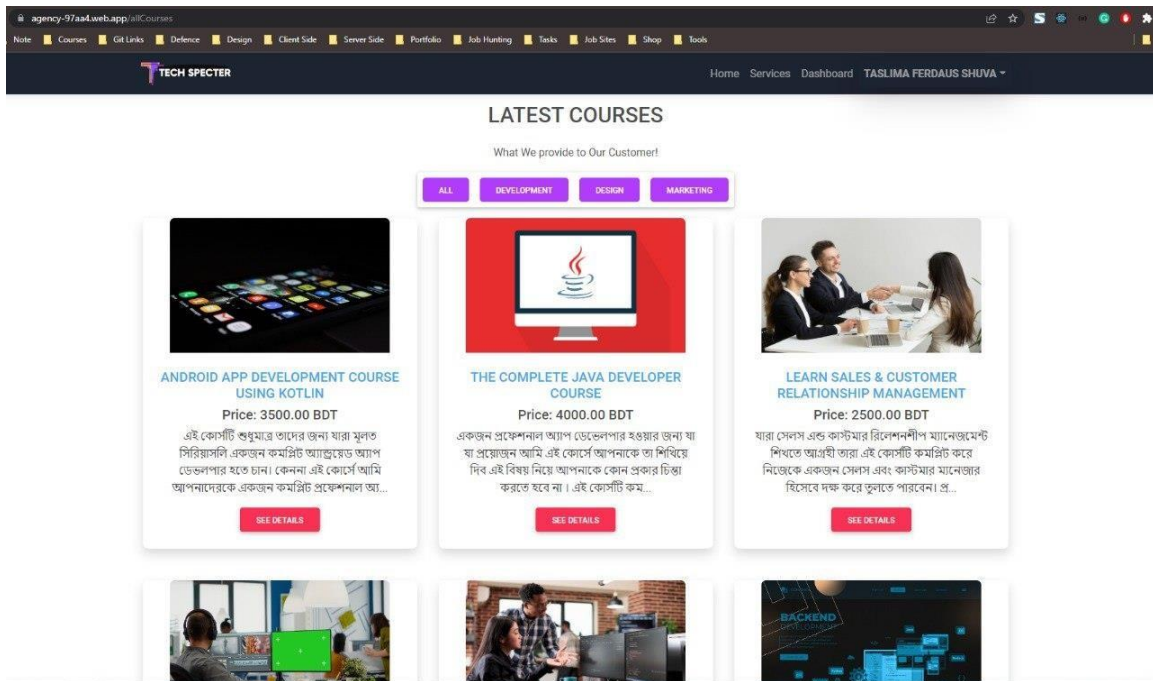


Figure 4.24: Course section

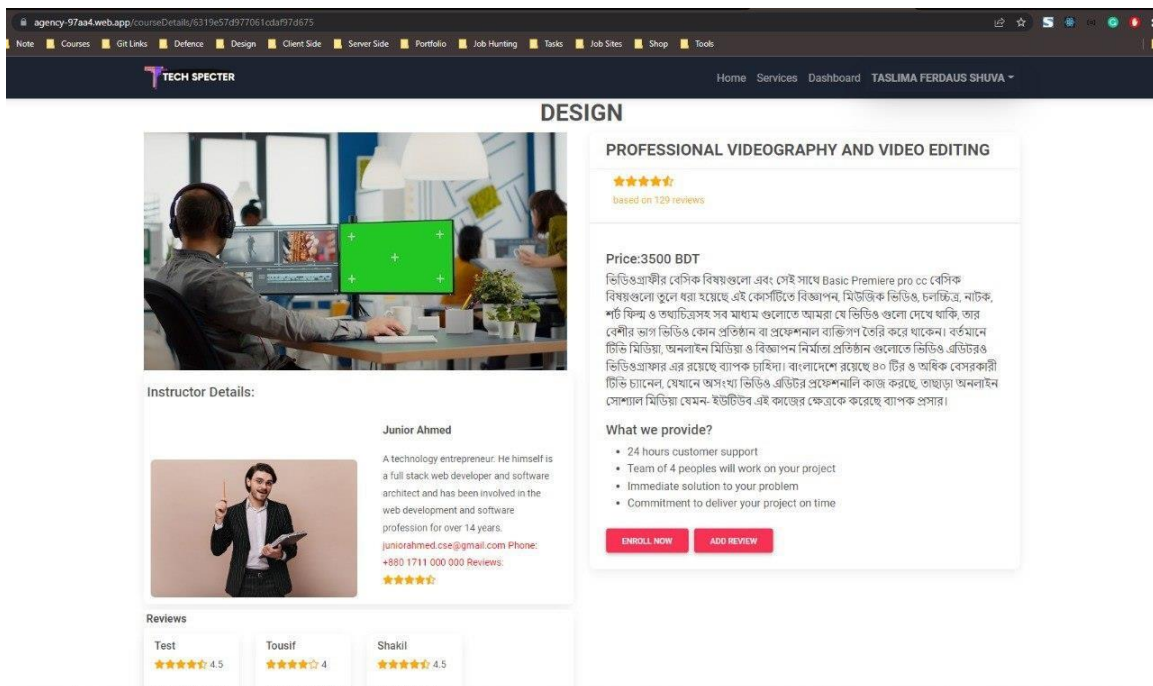


Figure 4.25: Details of a course



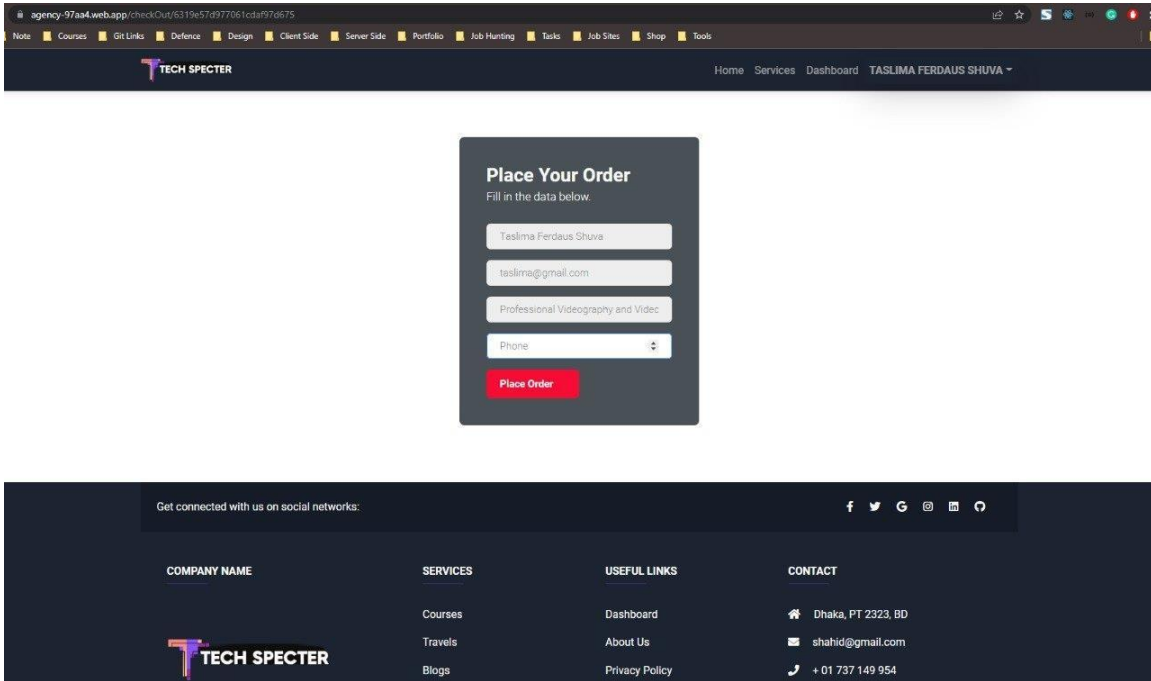


Figure 4.26: place order section

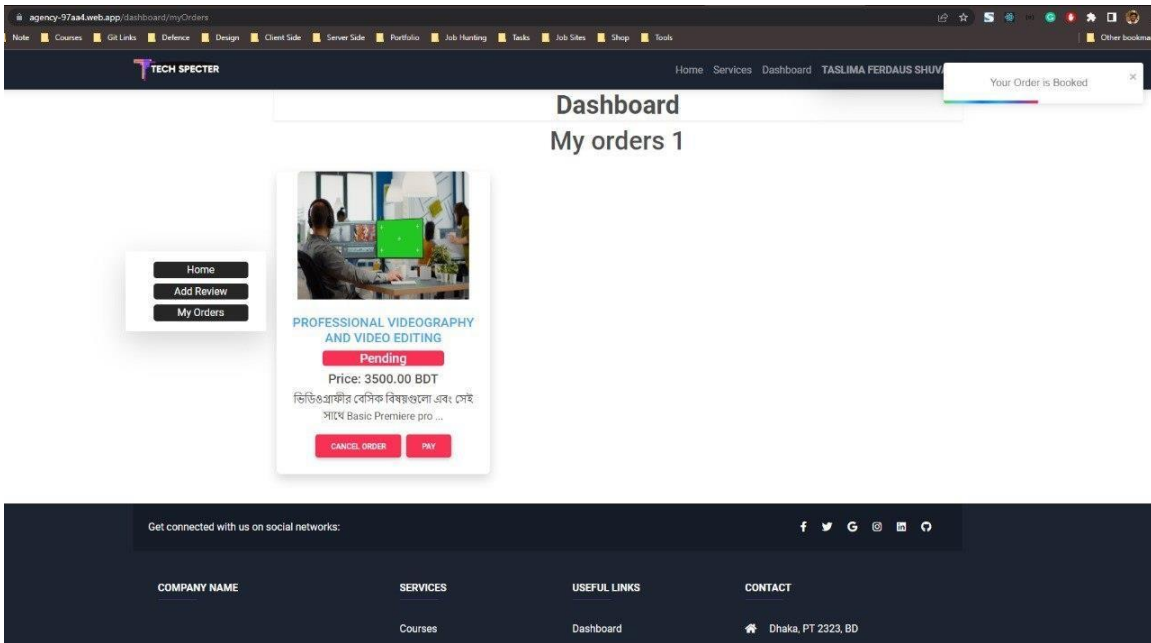


Figure 4.27: Cart

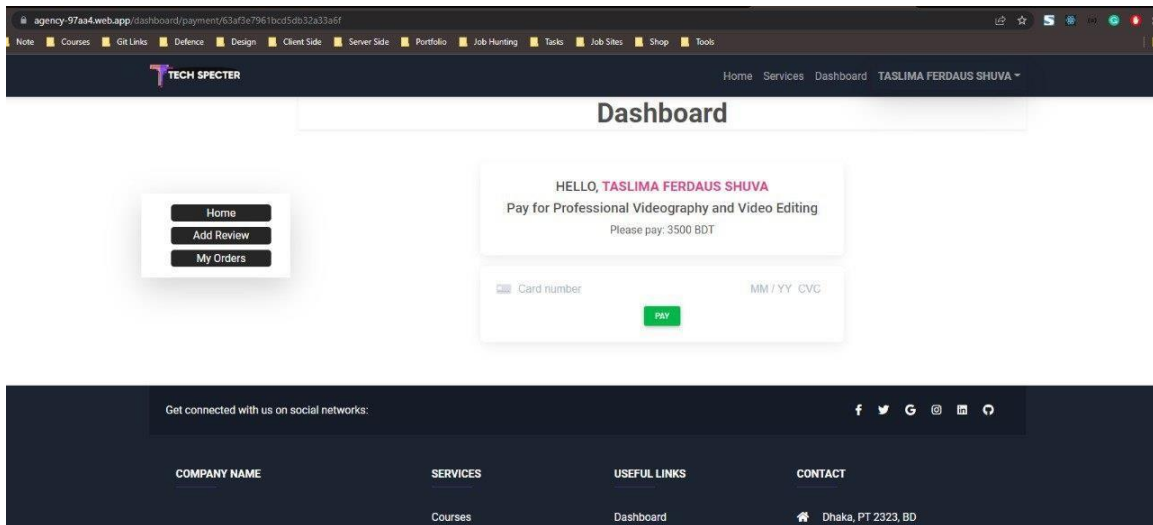


Figure 4.28: Payment section

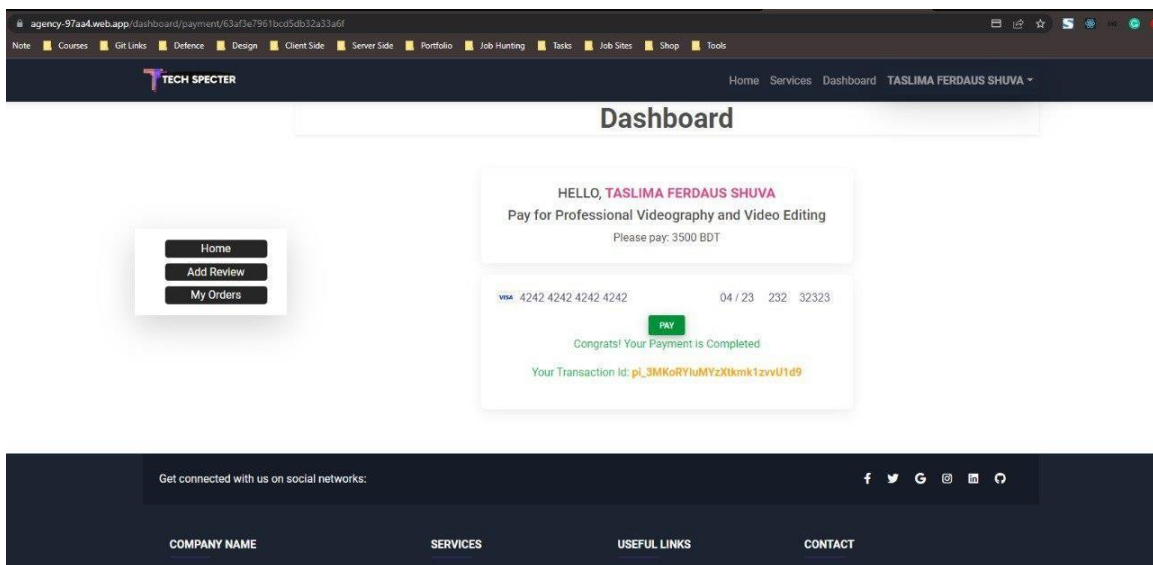


Figure 4.29: Transaction process

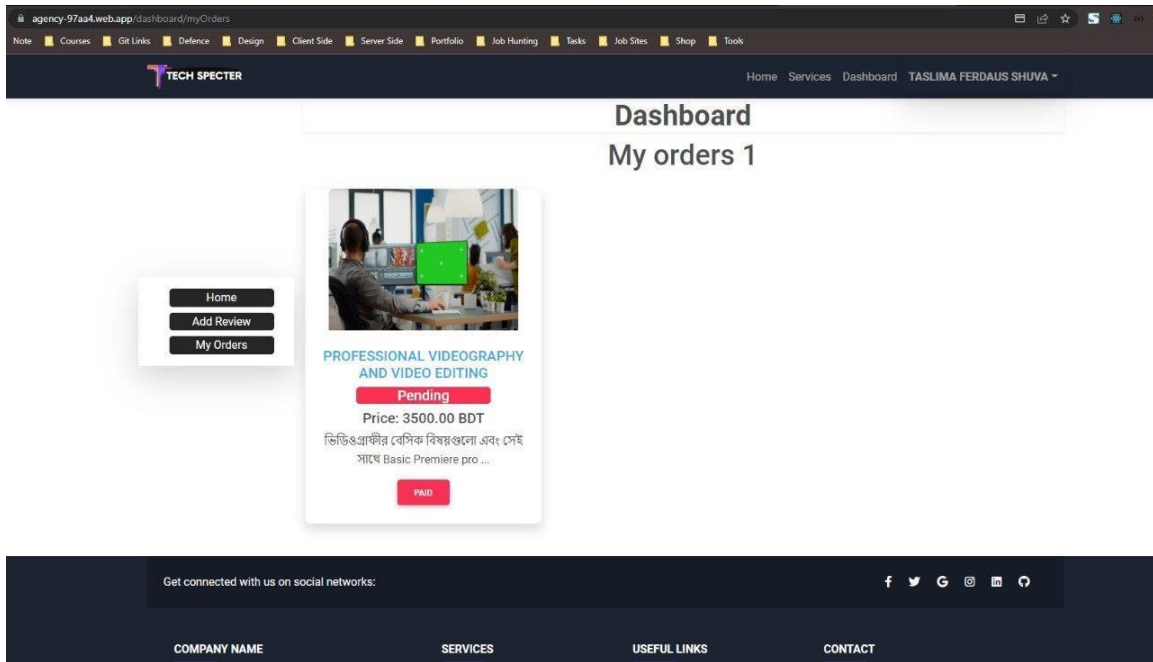


Figure 4.30: Accept

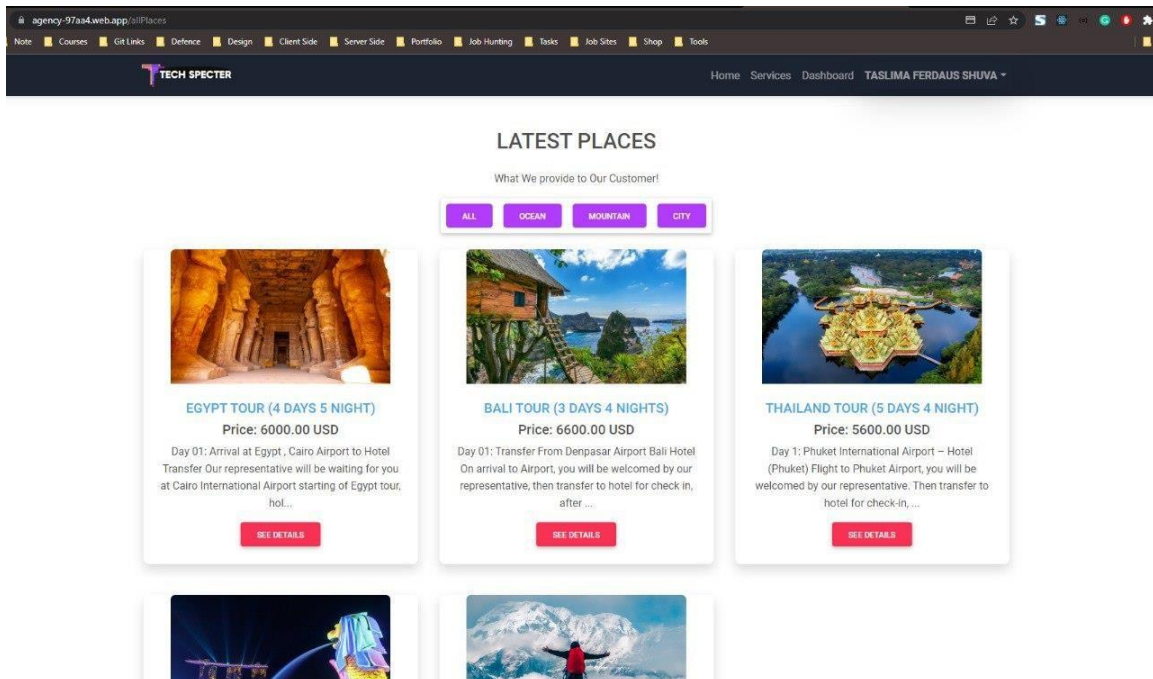


Figure 4.31: Travel section

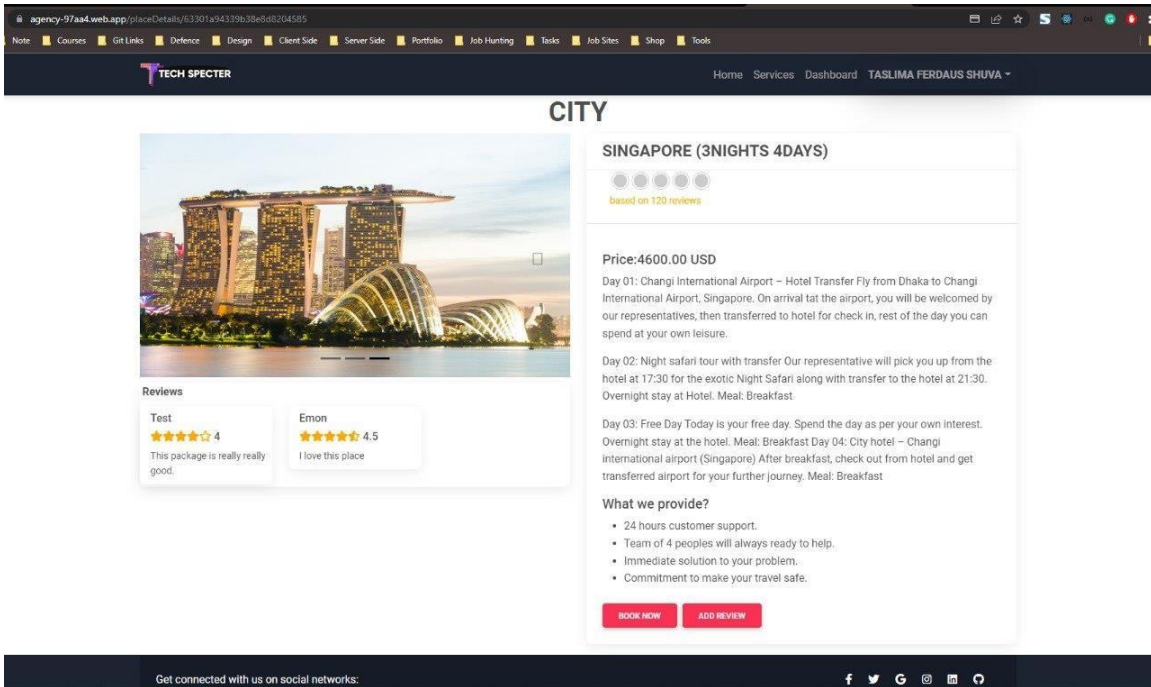


Figure 4.32: Place details

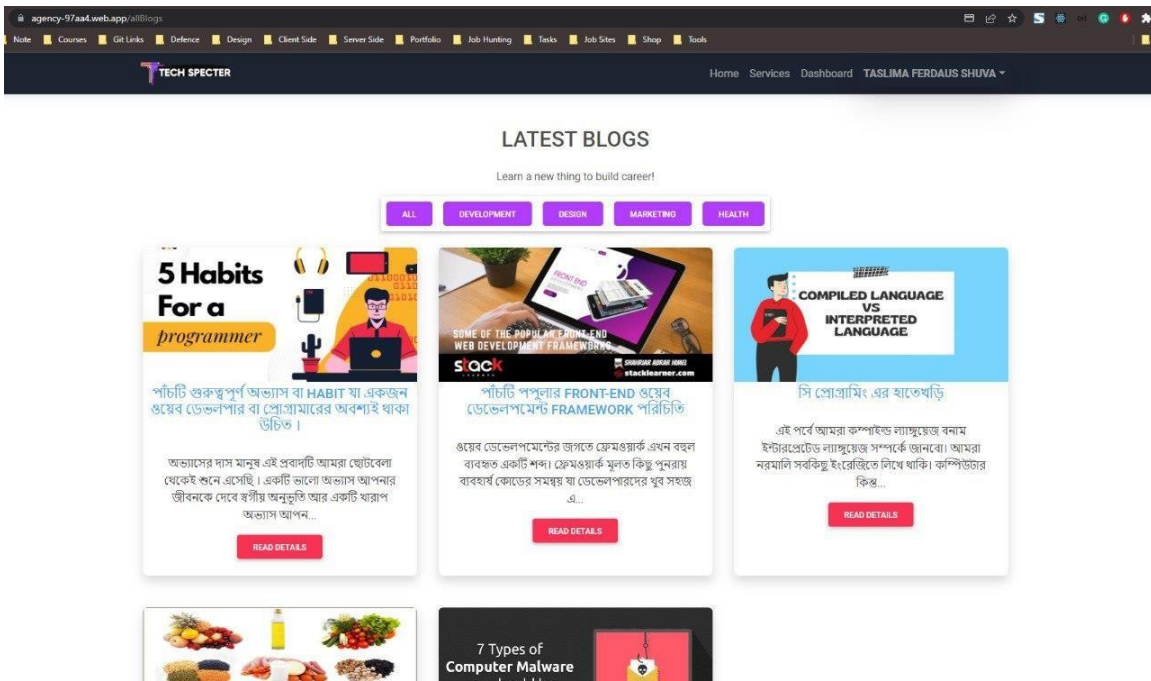


Figure 4.33: Blog section

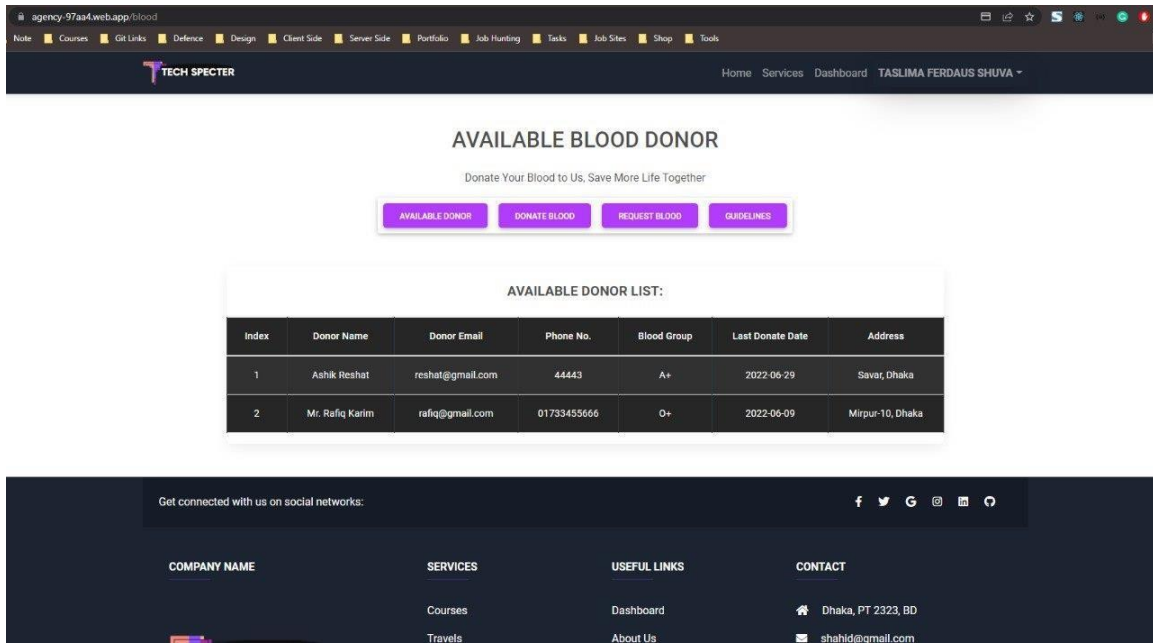


Figure 4.34: Blood management

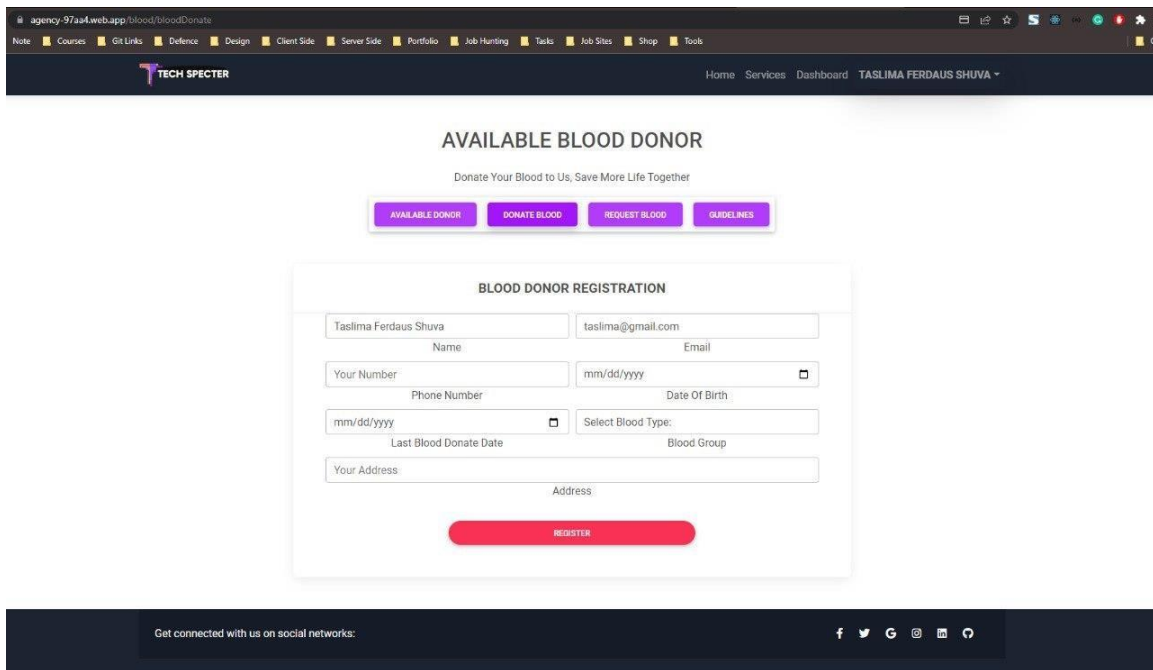


Figure 4.35: Donor registration

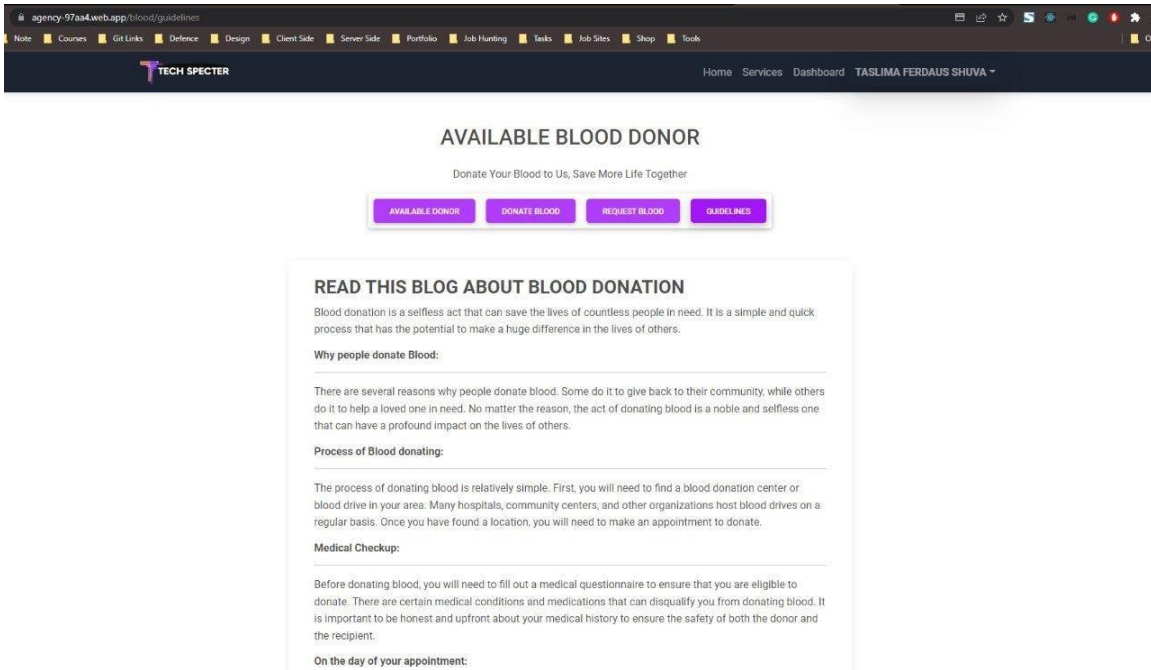


Figure 4.36: Guideline

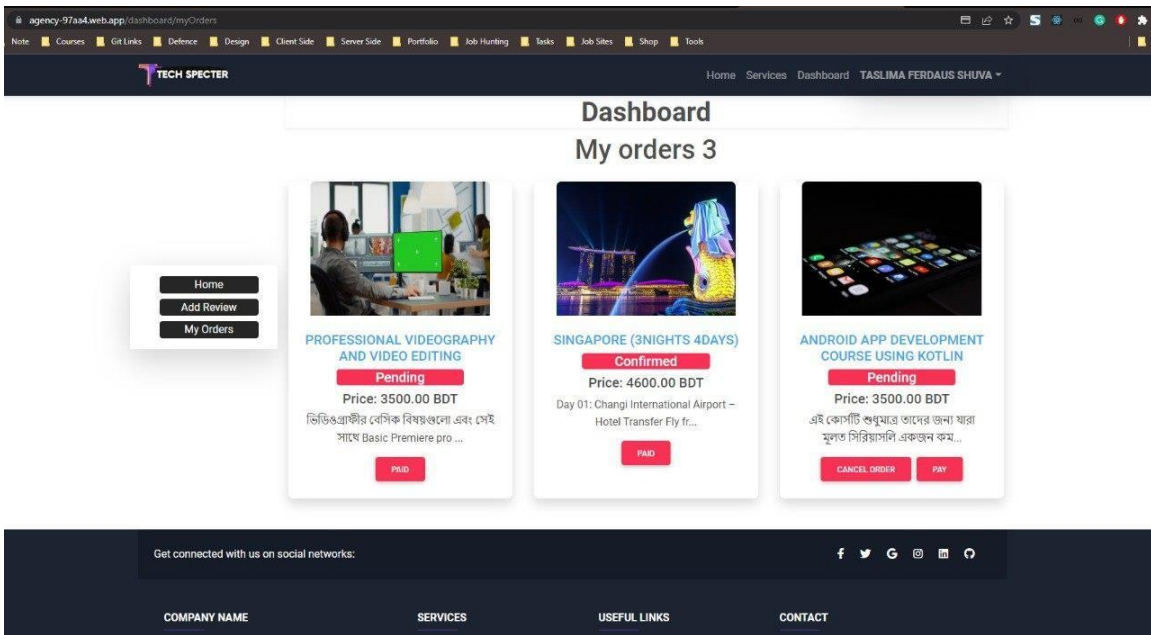
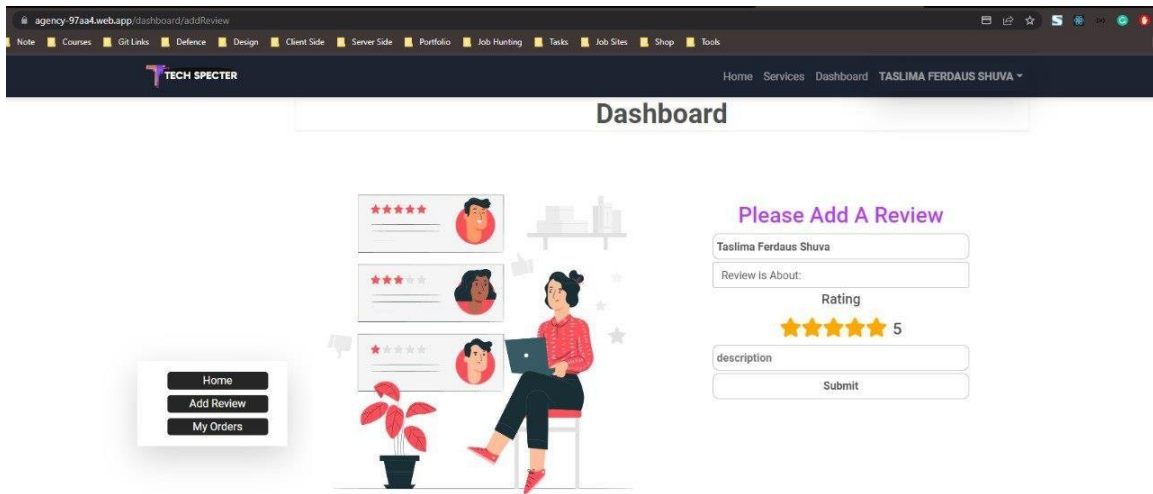


Figure 4.37: Order list



**Figure 4.38:** Review section



## 4.2.1 Back-end

- In our project to setup the backend, what we used is:
  - Node.js: It's a JavaScript. It allows us to run JavaScript on the server side.
  - Node Package Manager: We use this to manage dependencies.
  - Visual Code Studio: We use this editor to edit our code program.
  - JSON file: The package.json file is a configuration file that specifies your project's dependencies and scripts.
  - Express: It's a web server framework that simplifies the process of building a web server.
  - MongoDB Node.js Driver: The MongoDB Node.js driver is a library that allows you to connect to a MongoDB database from a Node.js application. We install this using npm.
  - MongoDB Database: We used a MongoDB database to store and retrieve data.

```
3  const jwt = require('jsonwebtoken');
4  const { MongoClient, ServerApiVersion, ObjectId } = require("mongodb");
5  require("dotenv").config();
6  const stripe = require('stripe')(process.env.STRIPE_SECRET_KEY);
7
```

**Figure 4.39:** MVC pattern code



```

1  const express = require("express");
2  const cors = require("cors");
3  const jwt = require("jsonwebtoken");
4  const { MongoClient, ServerApiVersion, ObjectId } = require("mongodb");
5  require("dotenv").config();
6  const stripe = require('stripe')(process.env.STRIPE_SECRET_KEY);
7
8  const port = process.env.PORT || 5000;
9
10 const app = express();
11
12 //middleware
13 app.use(cors());
14 app.use(express.json());
15
16 //database connection
17 const uri = `mongodb+srv://${process.env.DB_USER}:${process.env.DB_PASS}
18 @cluster0.3bc4k.mongodb.net/?retryWrites=true&w=majority`;
19 // console.log(uri);
20
21 const client = new MongoClient(uri, {
22   useNewUrlParser: true,
23   useUnifiedTopology: true,
24   serverApi: ServerApiVersion.v1,
25 });

```

Figure 4.40: MVC pattern code

### 4.3 Implementation Requirements

Our program was developed using visual studio code and "https://localhost:3000" for the live server. We have used different languages and frameworks on our project, such as React JS, JavaScript, HTML5, CSS, Bootstrap, Firebase Auth, Node JS, Express JS, JWT(JavaScript Web Token), etc. Frontend design is the design and layout of a website as it is displayed in a browser. It's a visual representation of the elements of a website, such as layout, color scheme, and so on. Using HTML, CSS, and JavaScript, these elements can be implemented.

# CHAPTER 5

## IMPLEMENTATION AND TESTING

### 5.1 Database Implementation

There are lot of database management system. We choose MongoDB for this project Because MongoDB is a popular NoSQL database that is designed for storing and managing large volumes of data, it is known for its flexibility, scalability, and performance.

This MongoDB represents information as JSON-type document with facultative schemas. It is capable for maintaining database very smoothly and high performance way and for that reason we choose it.

Database knowledge:

The name of my database is "agency"

There are 10 collections in my Database.

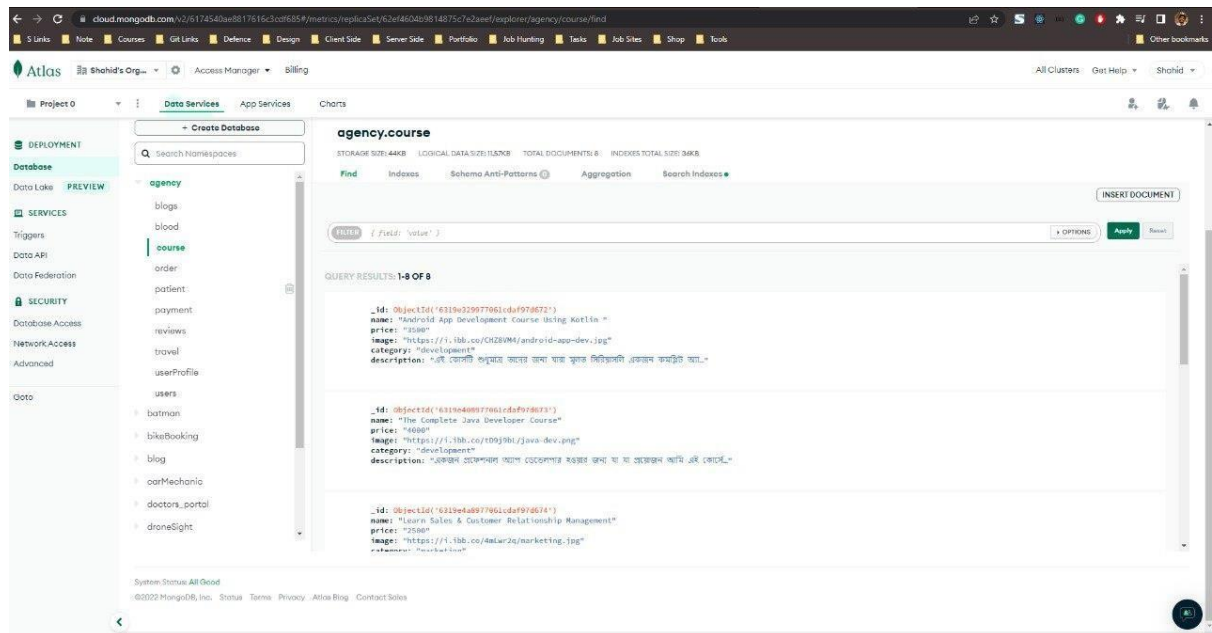


Figure 5.1: Database Structure

## 5.2 Block Diagram Implementation

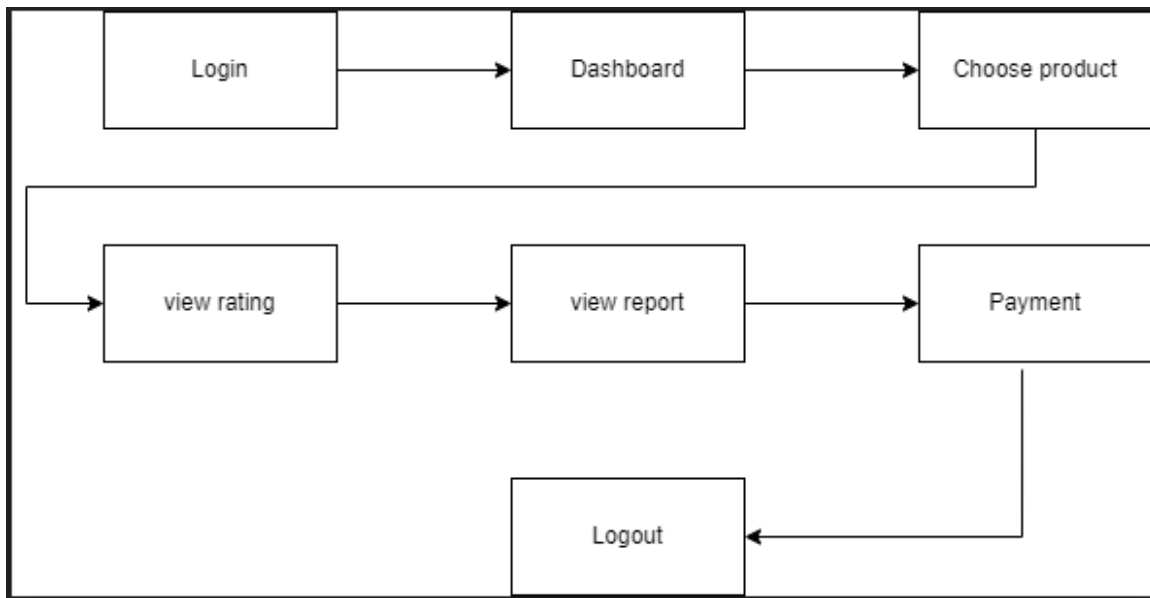


Figure 5.2: Implementation Block Diagram

## 5.3 Testing Report

This section is very important section. As a testing part I got all my report.

The screenshot shows a testing report interface for 'TECH SPECTER'. The interface includes a navigation menu on the left with options like Home, All Users, Add Course, Add Place, Add Blog, Manage Places, Manage Orders, and All Transaction. The main content area displays a table of test results.

ID	Email	Course/Service	Status	Payment	Action
5	arifulhaque60332@gmail.com	The Complete Java Developer Course	Pending	Not Paid	DELETE
6	emon@gmail.com	Thailand Tour (5 Days 4 Night)	Confirmed	CONFIRM	DELETE
7	nurul@gmail.com	Egypt Tour (4 Days 5 Night)	Pending	Not Paid	DELETE
8	ikemon306@gmail.com	Professional Videography and Video Editing	Confirmed	CONFIRM	DELETE
9	eftihasan6657@gmail.com	Android App Development Course Using Kotlin	Pending	CONFIRM	DELETE
10	eftihasan6657@gmail.com	Singapore (3Nights 4Days)	Pending	Not Paid	DELETE
11	sweet@gmail.com	Android App Development Course Using Kotlin	Pending	CONFIRM	DELETE
12	reshat@gmail.com	Android App Development Course Using Kotlin	Confirmed	CONFIRM	DELETE
13	eftihasan6657@gmail.com	Singapore (3Nights 4Days)	Pending	Not Paid	DELETE

Figure 5.3: Testing Report

## CHAPTER 6

### CONCLUSION AND FUTURE WORK

#### 6.1 Discussion

Our system is for reducing one's hassle in this modern world. Our admin is always for providing best services by analyzing various sector through internet so that a user can take his decision confidently and perfectly. We have a tendency to confronted with variety of adverse difficulties. As a result, we create this system and it's in very user friendly way.

#### 6.2 Conclusion

We successfully constructed our web based application. We tested many times with our browsers and the result is, it works properly. Hope so the user enjoys our service also .The user can handle it so nicely. We connect some users to find the limitations but they enjoy it with good experience.

We tried our best and the result is outstanding.

#### 6.3 Scope for Further Developments

Nothing in this cosmos is constant; everything is subject to change. As well as our application. We finished some things, but we'll keep working to enhance the services and add new features.

- Improve payment gateway
- Add features in system and many more....

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