

# **BShopper (shopping malls made easy)**

**By**

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This Report is Presented in Partial Fulfillment of the Requirements for the Degree of  
Bachelor of Science in Software Engineering

**Supervised By**

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**DAFFODIL INTERNATIONAL UNIVERSITY**  
**DHAKA, BANGLADESH**  
**FEBRUARY 2021**

## **APPROVAL**

This project named "Bshopper (Shopping malls made easy)" was submitted to the Department of Software Engineering of Daffodil International University by the name: Md. Hasibul Hasan Siju, ID: 163-35-168, and has been accepted as part of the requirements for a bachelor's degree in software engineering and has been approved. In terms of its style and content.

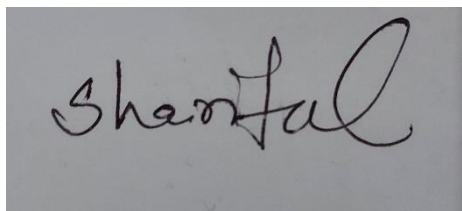
## DECLARATION

I hereby declare that this project was completed by me under the direction of Mr. Shariful Islam, Lecturer in the Department of Software Engineering at Daffodil International University. This also declares that neither this project nor any part of it has presented any degree awards anywhere else.

Hasibul

-----  
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Certified by:

A rectangular box containing a handwritten signature in black ink. The signature appears to be 'Shariful' in a cursive script.

-----  
Mr. Shariful Islam  
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## **ACKNOWLEDGEMENT**

I have worked a lot on this project. Still, it would be unimaginable without the kind help of countless people. Perhaps I want to express my seriousness for each of them. I am very grateful for the guidance of Daffodil International University and the steady supervision of Mr. Shariful Islam, and for providing the necessary information about the idea and helping me complete my tasks. I want to thank our parents, classmates, and DIU members for their kind cooperation and comfort, who helped me complete my task.

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## **CHAPTER 1: INTRODUCTION**

Nowadays, we face a common problem when we visit a large shopping mall in our area. It is very hard to navigate a shopping mall because of a messy navigation system and also the number of shops. sometimes we get lost in a shopping mall let alone forget how to exit a shopping mall. BShopper was developed with this problem in mind to help users navigate a shopping mall better by saving their time to look for a product at the right price. That's why the tag line is shopping malls made easy.

### **1.1 Project Overview**

BShopper is a single-page web application to help users navigate a shopping mall in a better way. We always face this common problem such as Mr. Y wants to buy an iPhone and he knows that Bashundhara City Shopping mall is one of the best places to buy an iPhone. Now there is over a 100 shop there. Now it is very time-consuming to navigate every single shop in Bashundhara City and to search for an iPhone and get the best price. BShopper is developed to solve this kind of problem. It will provide the user a nice search option so the user can look for what he wants and get the best price by comparing every shop in his hand or he can do it while he is at home resting. Bshopper will also provide a nice dashboard for shops in a shopping mall so that they can create their shop and entry their product in the shop. Users will be able to browse the inventory and see which products are in stock and add the products to their favorite list. So, they can look it afterward when they are in the shopping mall.

## **1.2 Project Purpose**

### **1.2.1 Background**

Those who visited a large shopping mall only know how hard it is to find something you are looking for in that shopping mall. Basically, we have to explore every single shop which falls under that category, and then we can find the product at a negotiable price. But we don't have that much time always so it is better to have a system like BShopper where you can just go and search for a product and then you can compare the price to find your desired product at the best price. You can also review a product and already see how many reviews it has. Then you can add it to your favorite list etc...

### **1.2.2 Benefits & Beneficiaries**

- It will be easier to navigate a large shopping mall
- Shops can sell their products more efficiently
- User's time will be saved

### **1.2.3 Goals**

The main goal is to save time of users when they are shopping in a large shopping mall

- Build a Single page Application so users don't have to wait for reload time
- Provide a dashboard for shops so that they can easily create their shop and populate the inventory

### **1.3 Stakeholders**

There are four types of stakeholders in BShopper

- Owner(myself)
- User
- Shop
- Admin

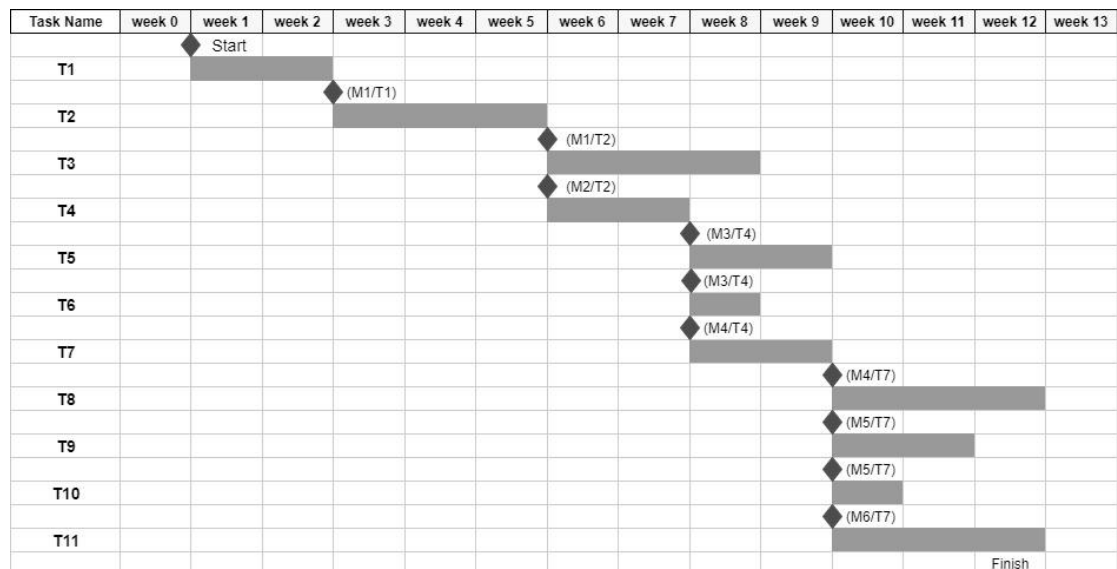
### **1.4 Project Schedule**

#### **1.4.1 Release Plan/Milestone**

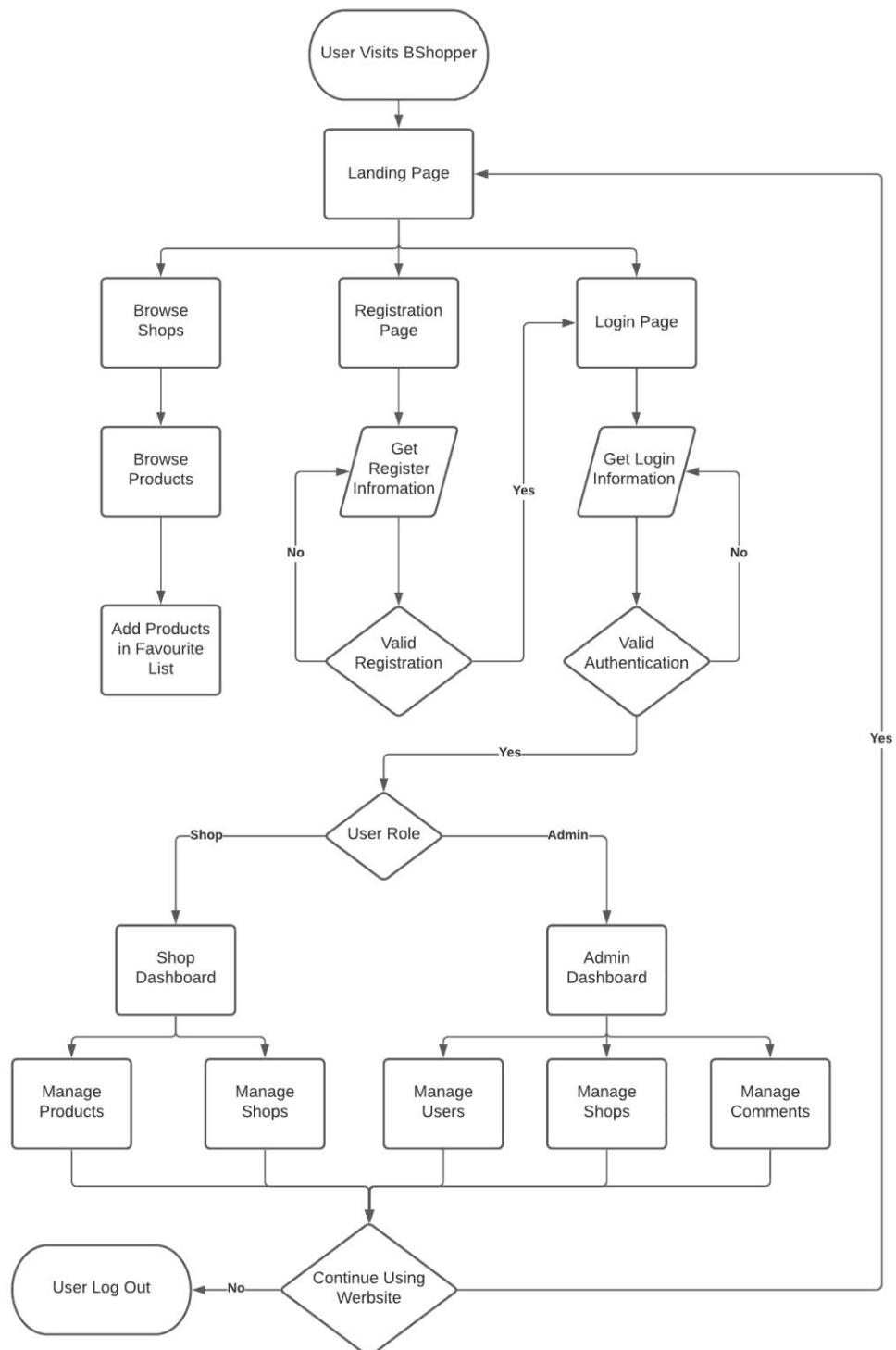
BShopper is released in beta version in 01 November, 2020 after all the major tasks have been completed. Bshopper is still in development in order to improve the search functionalities and hope for new ideas.

### 1.4.2 Gantt Chart

| Task Name           | Task ID | Start Date | Duration (days) | End Date   | Dependencies |
|---------------------|---------|------------|-----------------|------------|--------------|
| User Registration   | T1      | 1/08/2020  | 10              | 10/08/2020 |              |
| User Authentication | T2      | 1/08/2020  | 15              | 15/08/2020 | T1(M1)       |
| Edit Profile        | T3      | 16/08/2020 | 15              | 30/08/2020 | T2(M1)       |
| Create Shop         | T4      | 16/08/2020 | 10              | 25/08/2020 | T2(M2)       |
| Edit Shop           | T5      | 26/08/2020 | 10              | 5/09/2020  | T4(M3)       |
| Delete Shop         | T6      | 26/08/2020 | 5               | 30/08/2020 | T4(M3)       |
| Create Product      | T7      | 26/08/2020 | 10              | 5/09/2020  | T4(M4)       |
| Product Details     | T8      | 6/09/2020  | 15              | 25/09/2020 | T7(M4)       |
| Edit Product        | T9      | 6/09/2020  | 10              | 20/09/2020 | T7(M5)       |
| Delete Product      | T10     | 6/09/2020  | 5               | 15/09/2020 | T7(M5)       |
| Add to Favorite     | T11     | 6/09/2020  | 15              | 20/09/2020 | T7(M6)       |



## 1.5 Proposed System Model (block diagram)



## **CHAPTER 2: SOFTWARE REQUIREMENT SPECIFICATION**

### **2.1 Functional Requirements**

- Login
  - verify role and redirect to user to dashboard
- Email Verification of user
  - Email must be sent during registration
- User will be able to create shop
  - Shops can be created so user can add products to them
- User will be able to add product
  - Product with details info can be added in system

### **2.2 Data Requirements**

- Shop
  - Name, Shop Number, Block, Level
- User
  - Name, Email, Phone Number. Gender
- Product
  - Name. In Stock, Details, Image

## **2.3 Performance Requirements**

### **2.3.1 Speed and Latency Requirements**

- The web app must load within 3 seconds
- API response time should not be greater than 300ms

### **2.3.2 Precision or Accuracy Requirements**

- API must response detailed error message
- Every API should response a status code

### **2.3.3 Capacity Requirements**

- Server should be able to handle a minimum of 200 request per second
- User uploaded media should be converted to optimized file size

## **2.4 Dependability Requirements**

### **2.4.1 Reliability Requirements**

- User experience should be at that level so a user can trust the system
- Terms and Conditions and Privacy Policy page needed

### **2.4.2 Availability Requirements**

- Backup system should be there so system doesn't shut down
- Staffs must be available 24/7 to support any user when needed

### **2.4.3 Robustness or Fault-Tolerance Requirements**

- System should be developed with scalability in mind
- Code must be written following the DRY (Don't Repeat Yourself) theory

### **2.4.4 Safety-Critical Requirements**

- System should be safe enough to prevent any cyber attack
- System should prevent any kind of spam request

## **2.5 Maintainability and Supportability Requirements**

### **2.5.1 Maintenance Requirements**

- Backend Server should be maintained always
- Periodical Database Backup should be taken

### **2.5.2 Supportability Requirements**

- Customer care support should be available always
- Must verify user information before providing necessary support

### **2.5.3 Adaptability Requirements**

- User Interface should be user adaptable
- Dashboard should be developed so Shops can be managed easily

### **2.5.4 Scalability or Extensibility Requirements**

- Code must be written with scalability in mind. Any kind of changes can come anytime into the system
- Robust Development should be ensured

## **2.6 Security Requirements**

### **2.6.1 Access Requirements**

- Data Security must be ensured
- Information of one particular user must not be accessed by other users

### **2.6.2 Integrity Requirements**

- Insertion of Data must be managed
- Database should be Normalized

### **2.6.3 Privacy Requirements**

- Any Third-party companies should not be able to access data with API request
- All API routes must be protected using permission classes

## **2.7 Usability and Human-Interaction Requirements**

### **2.7.1 Ease of Use Requirements**

- User should be able to customize his/her experience
- Settings page needs to be developed

### **2.7.2 Personalization and Internationalization Requirements**

- Implement Google Translate so any International User can translate the site to their own native language
- Translate this site API needed

### **2.7.3 Understandability and Politeness Requirements**

- System Language should be in readable Bangla and English
- Language can be switched with one click

### **2.7.4 Accessibility Requirements**

- Shops and User will be able to Customize their information
- Edit profile and Edit shop pages needed

### **2.7.5 User Documentation Requirements**

- Proper Documentation with every step should be written
- An easy Getting Started page needed

### **2.7.6 Training Requirements**

- Shop holders must be trained to use the system properly
- Training campaigns should be held so that users can learn about the system

## **2.8 Look and Feel Requirements**

### **2.8.1 Appearance Requirements**

- System should be developed with Soft UI in mind
- Glass morphism is required in Components

### **2.8.2 Style Requirements**

- Styling of the app must feel like warm and cozy
- Buttons should wobble like bubble when hovered

## **2.9 Operational and Environmental Requirements**

### **2.9.1 Expected Physical Environment**

- A dedicated space for admins and staffs

### **2.9.2 Requirements for Interfacing with Adjacent Systems**

- Admins and staff need to meet due to maintain the system properly

### **2.9.3 Projectization Requirements**

- Deployment should be release based

### **2.9.4 Release Requirements**

- In every release code should be merged into the main branch
- Every pull request needs to be reviewed before merging it to the main branch

## **2.10. Legal Requirements**

### **2.10.1 Compliance Requirements**

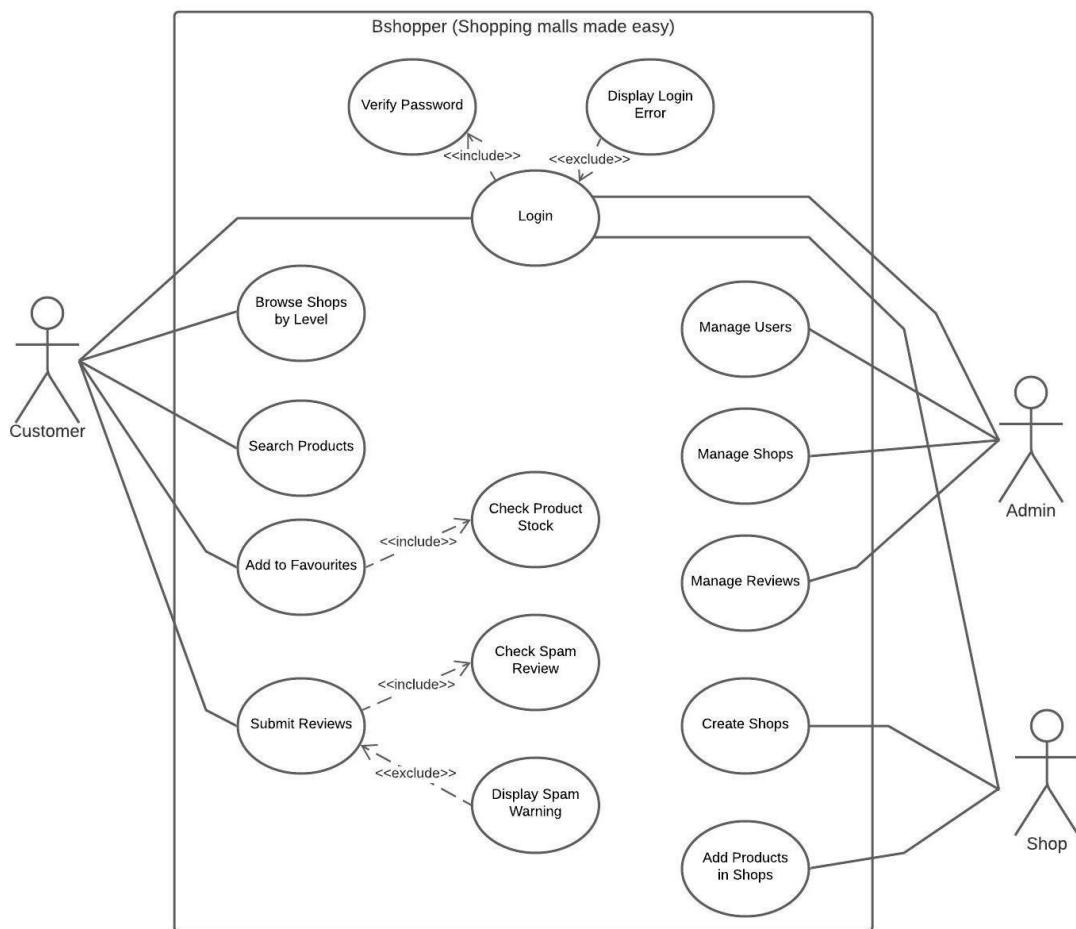
- System Should be developed with Copyright free materials

### **2.10.2 Standards Requirements**

- Fonts, Static Images should be royalty free

## CHAPTER 3: SYSTEM ANALYSIS

### 3.1 Use Case Diagram



### 3.2 Use Case Description

#### Login

| Name of Use Case | Login                                                            |                                        |
|------------------|------------------------------------------------------------------|----------------------------------------|
| Description      | Authentication is required to use the systems main functionality |                                        |
| Actors           | Shop, Admin                                                      |                                        |
| Pre-Condition    | User must need to registered                                     |                                        |
| Post-Condition   | Successful Login will redirect to dashboard                      |                                        |
| Main Scenarios   | Serial No                                                        | Steps                                  |
| Actors/Users     | 1                                                                | Enter username<br>Enter password       |
|                  | 2                                                                | Validate credentials                   |
|                  | 3                                                                | Redirect to Dashboard                  |
|                  | 2a                                                               | Invalid credentials show error message |

#### Search Product

| Name of Use Case | Search Product                                   |                               |
|------------------|--------------------------------------------------|-------------------------------|
| Description      | Search for products in the system database       |                               |
| Actors           | User, Shop, Admin                                |                               |
| Pre-Condition    | User must be connected to network                |                               |
| Post-Condition   | Successful Search terms will show search results |                               |
| Main Scenarios   | Serial No                                        | Steps                         |
| Actors/Users     | 1                                                | Enter Search Criteria         |
|                  | 2                                                | Filter products by keyword    |
|                  | 3                                                | Show search result            |
|                  | 2a                                               | Unknown keyword will show 404 |

### Add to Favorite

| Name of Use Case | Add to Favorite                                 |                                     |
|------------------|-------------------------------------------------|-------------------------------------|
| Description      | Add a product to favorite list                  |                                     |
| Actors           | User                                            |                                     |
| Pre-Condition    | User must have latest version of Chrome/Firefox |                                     |
| Post-Condition   | A product will be added to users favorite list  |                                     |
| Main Scenarios   | Serial No                                       | Steps                               |
| Actors/Users     | 1                                               | Browse Shops                        |
|                  | 2                                               | Browse Products                     |
|                  | 3                                               | Add Product to favorite list        |
|                  | 3a                                              | Out of stock product can't be added |

### Submit Reviews

| Name of Use Case | Submit Review                             |                                     |
|------------------|-------------------------------------------|-------------------------------------|
| Description      | Submit product reviews                    |                                     |
| Actors           | User                                      |                                     |
| Pre-Condition    | User must be logged in                    |                                     |
| Post-Condition   | A review will be added to product reviews |                                     |
| Main Scenarios   | Serial No                                 | Steps                               |
| Actors/Users     | 1                                         | Browse Shops                        |
|                  | 2                                         | Browse Products                     |
|                  | 3                                         | Add Product Review                  |
|                  | 3a                                        | A Product can be reviewed only once |

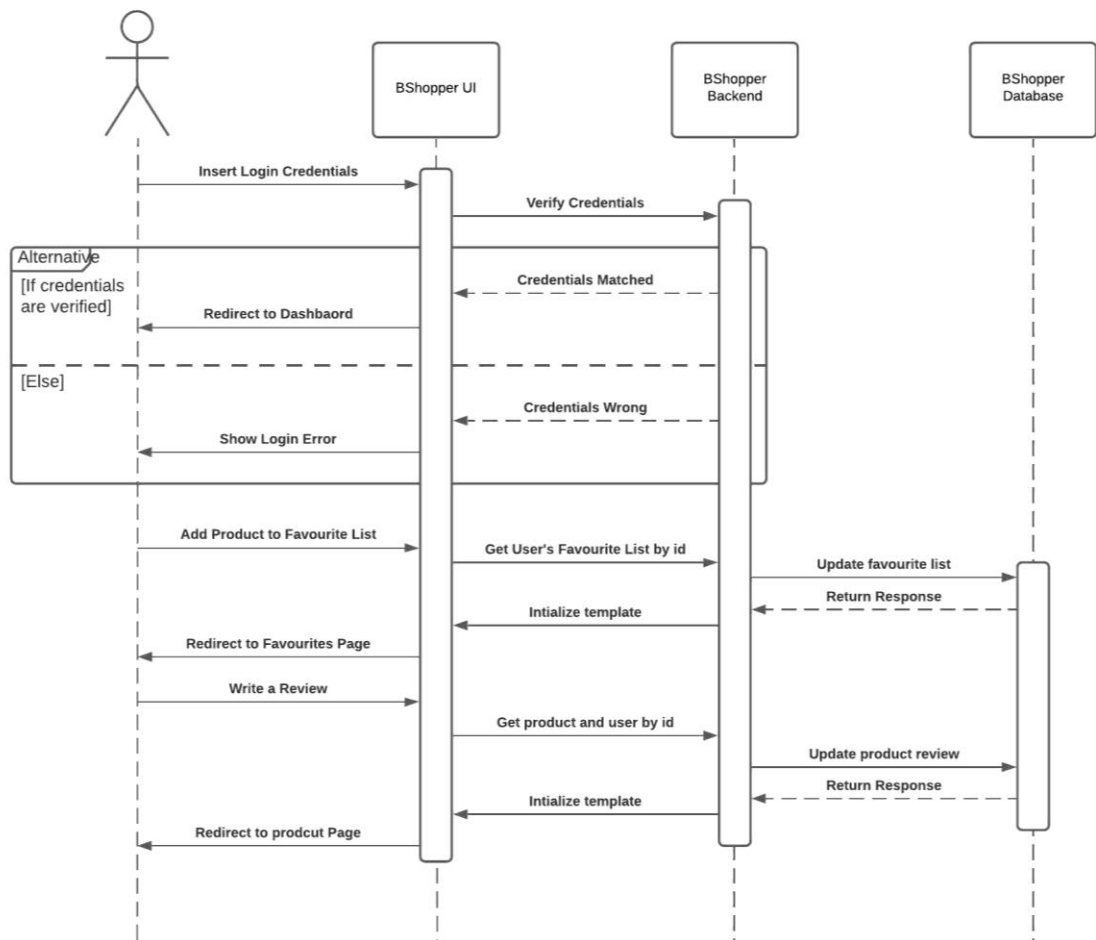
### Create Shop

| Name of Use Case | Create Shop                                           |                                          |
|------------------|-------------------------------------------------------|------------------------------------------|
| Description      | Create a new shop to add products                     |                                          |
| Actors           | Shop                                                  |                                          |
| Pre-Condition    | Shop User must be logged in                           |                                          |
| Post-Condition   | A new shop will be created where product can be added |                                          |
| Main Scenarios   | Serial No                                             | Steps                                    |
| Actors/Users     | 1                                                     | Fill in shop information                 |
|                  | 2                                                     | Validate information                     |
|                  | 3                                                     | Redirect to new shop page                |
|                  | 3a                                                    | Invalid information will lead error page |

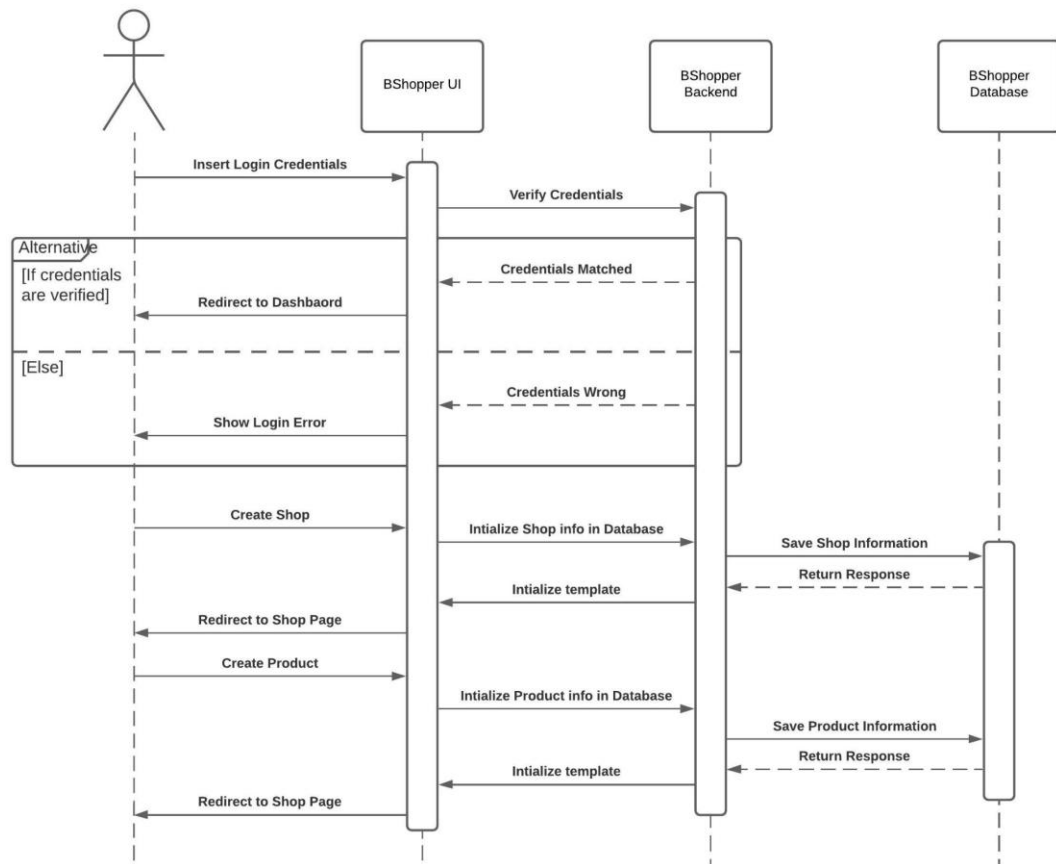
### Add Products to Shop

| Name of Use Case | Add Product                           |                                          |
|------------------|---------------------------------------|------------------------------------------|
| Description      | Add Products to a shop                |                                          |
| Actors           | Shop                                  |                                          |
| Pre-Condition    | Shop User must be logged in           |                                          |
| Post-Condition   | A new product will be added in a Shop |                                          |
| Main Scenarios   | Serial No                             | Steps                                    |
| Actors/Users     | 1                                     | Fill in product information              |
|                  | 2                                     | Validate information                     |
|                  | 3                                     | Redirect to new shop page                |
|                  | 3a                                    | Invalid information will lead error page |

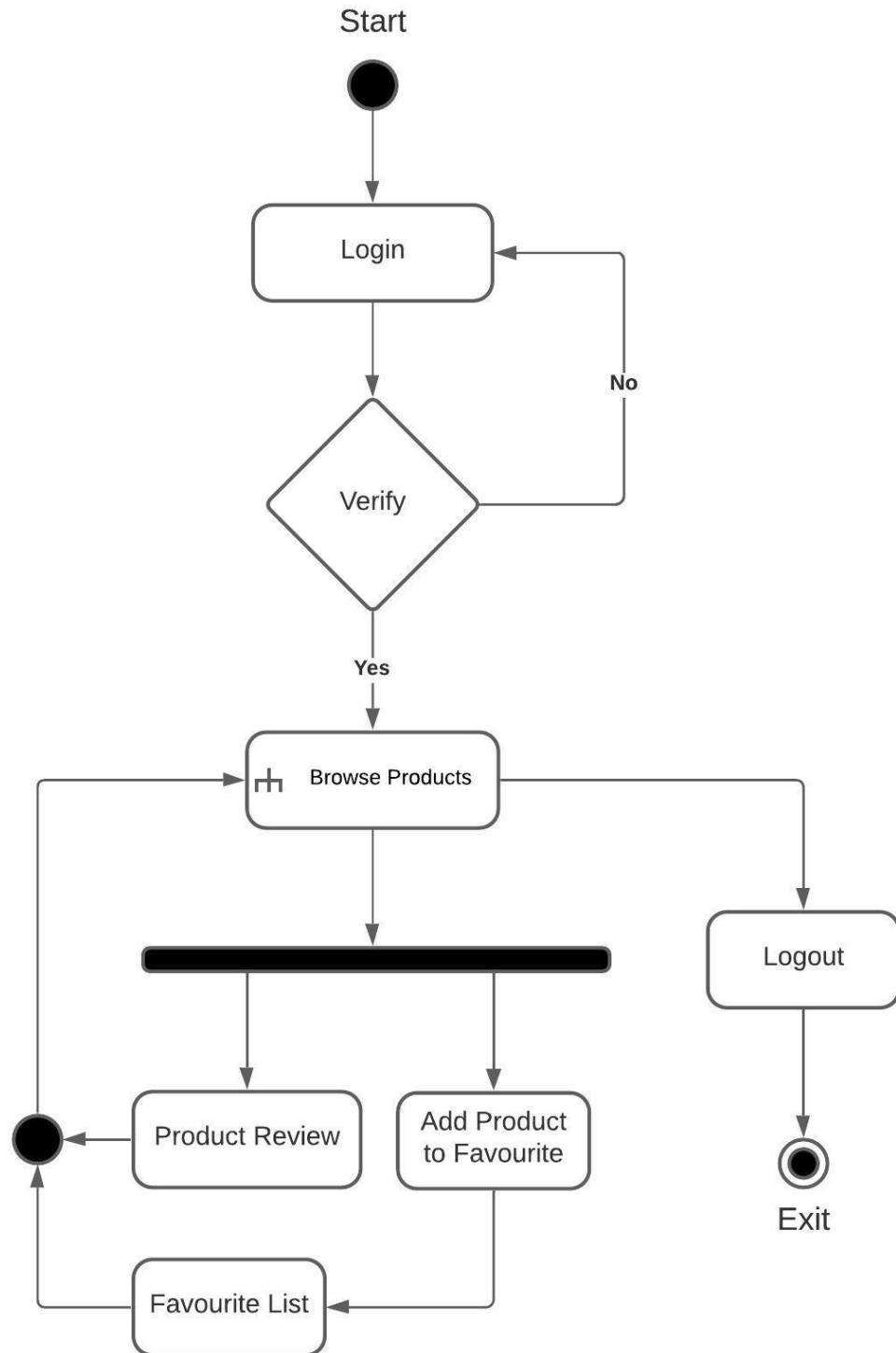
### 3.3 System Sequence Diagram (User)



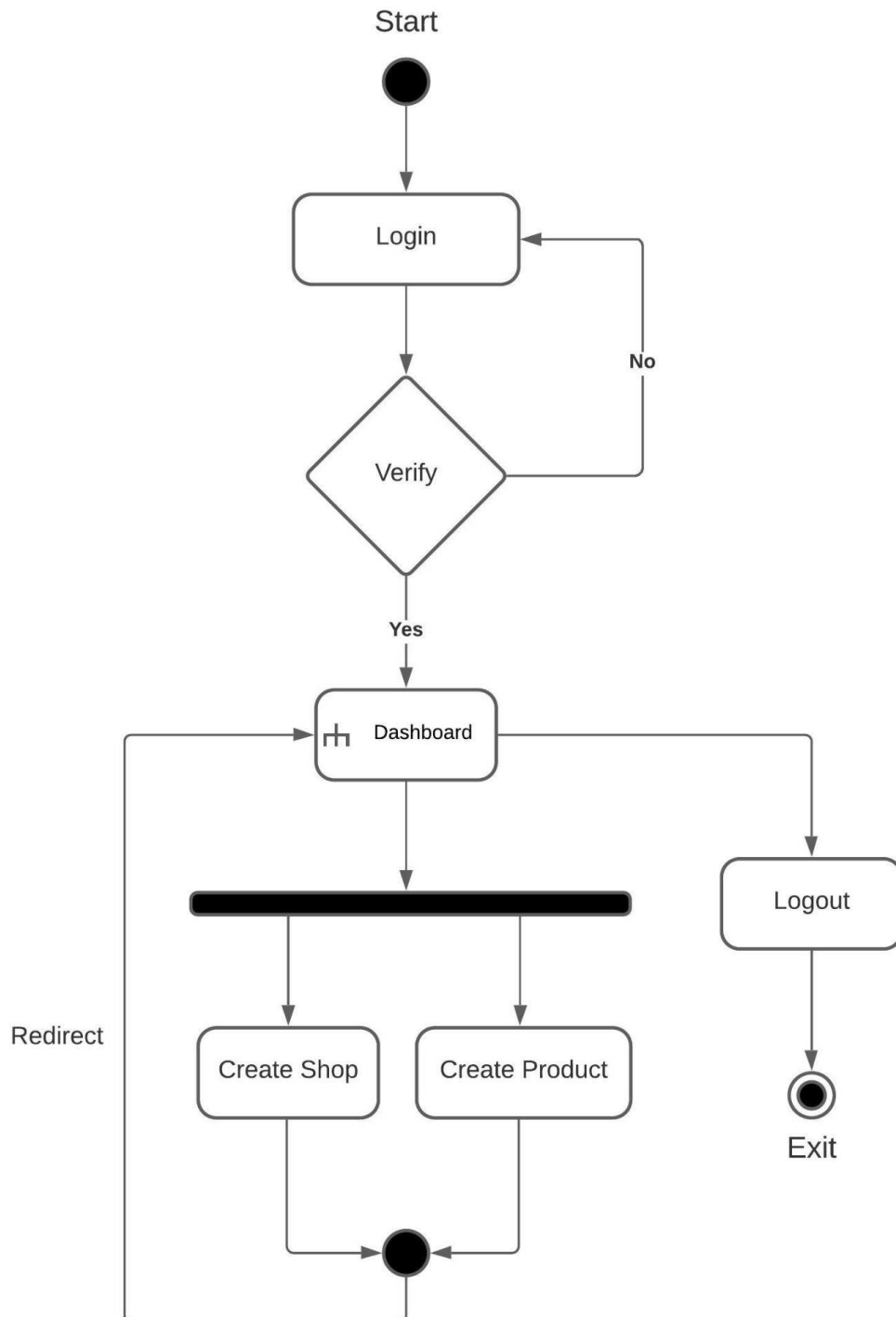
### 3.3 System Sequence Diagram (Shop)



### 3.4 Activity Diagram (User)

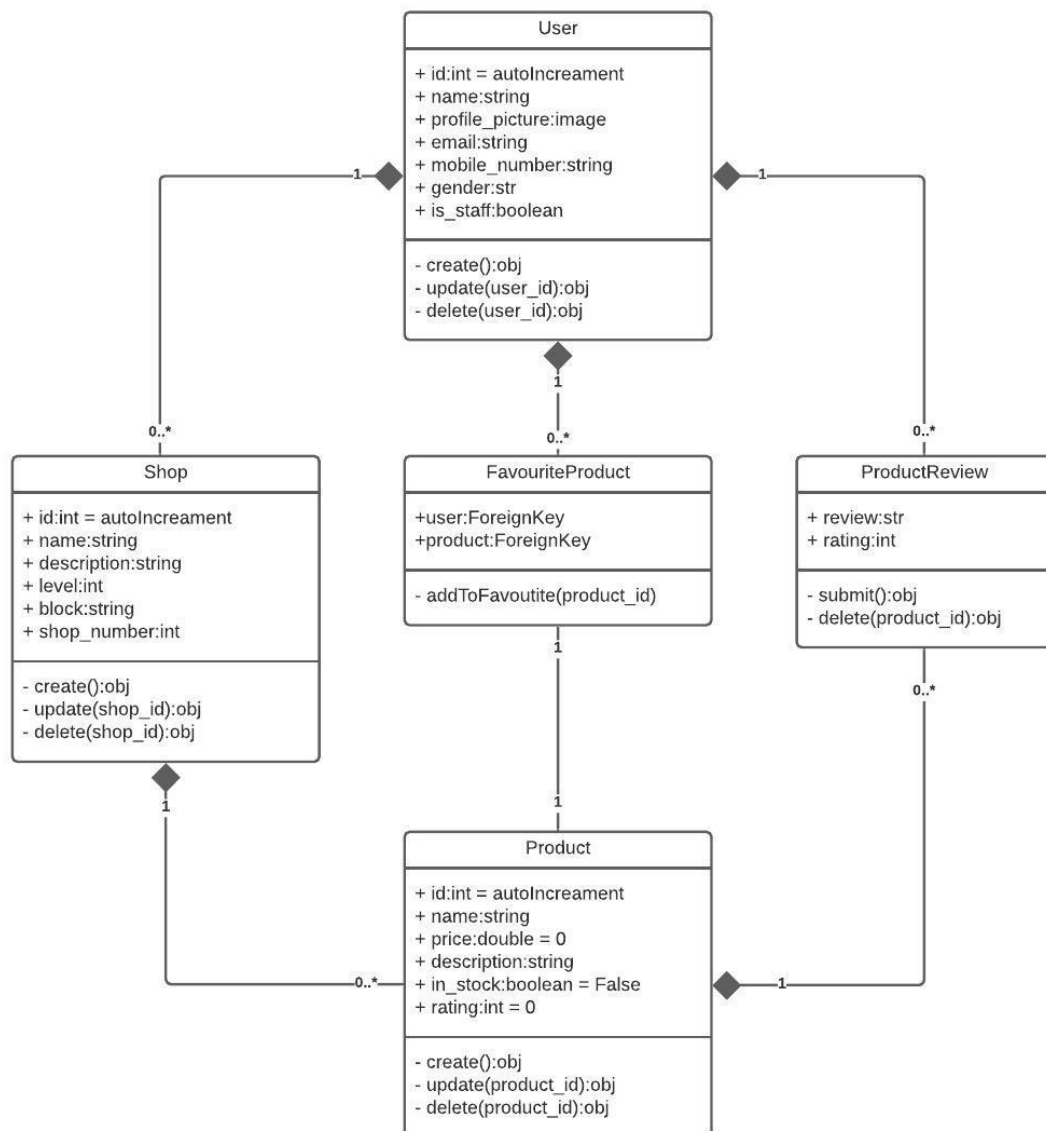


### 3.4 Activity Diagram (Shop)

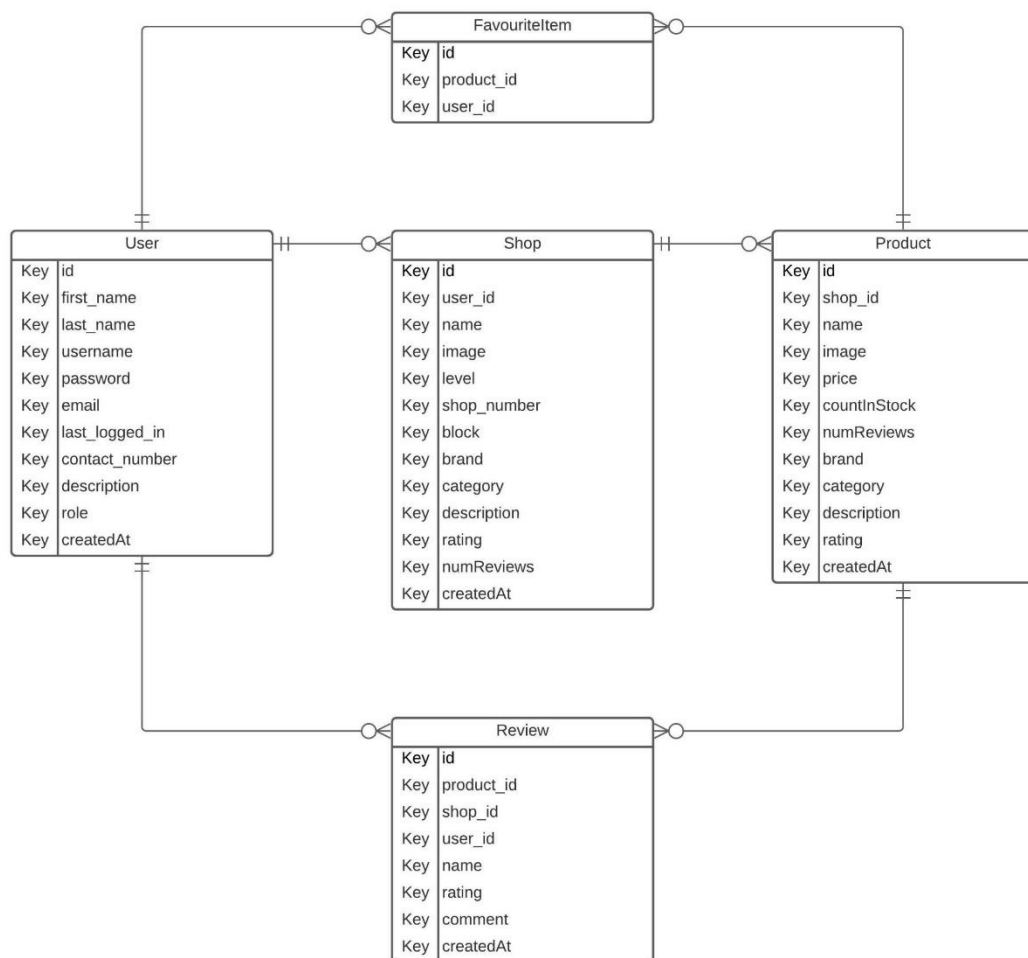


## Chapter 4: System Design Specification

### 4.1 Class Diagram



## 4.2 Database Design Diagram



## **4.3 Development Tools & Technology**

### **4.3.1 User Interface Technology**

- 4.5.1.1 Python Django Framework or Laravel Framework
- 4.5.1.2 React.js or Vue3
- 4.5.1.3 Tailwind or Bootstrap5
- 4.5.1.4 Font Awesome or Others

### **4.3.2 Implementation Tools & Platforms**

- 4.5.2.1 PyCharm or PHP Storm
- 4.5.2.2 PostgreSQL or MySQL Community Server 5.5
- 4.5.2.3 Localhost or Apache HTTP Server

## **CHAPTER 5: SYSTEM TESTING**

### **5.1 Testing Features**

#### **5.1.1 Features to be tested**

- User login and Registration
- User can create shop and add product

#### **5.1.2 Features not to be tested**

- User profile picture update

### **5.2 Testing Strategies**

#### **5.2.1 Test Approach**

- Use Postman to test all the API

#### **5.2.2 Pass/Fail Criteria**

- API response data with status codes

#### **5.2.3 Suspension and Resumption**

#### **5.2.4 Testing Schedule**

- 15 days from final release

### 5.2.5 Traceability Matrix

| Req No | Req Desc                | Testcase ID   | Status                             |
|--------|-------------------------|---------------|------------------------------------|
| 1      | User registration API   | T01, T02      | T01: Pass<br>T02: Fail             |
| 2      | User authentication API | T03, T04      | T03: Pass<br>T04: Pass             |
| 3      | Create Shop API         | T05, T06, T07 | T05: Pass<br>T06: Fail<br>T07 Pass |
| 4      | Create Product API      | T08, T09      | T08: Pass<br>T09: Pass             |
| 5      | Product Details API     | T10, T11      | T10: Pass<br>T11: Pass             |
| 6      | Add to Favorite API     | T12, T13      | T12: Pass<br>T13: Pass             |
| 7      | Edit Profile API        | T14, T15      | T14: Pass<br>T15: Fail             |
| 8      | Edit Shop API           | T16, T17      | T16: Pass<br>T17: Pass             |
| 9      | Edit Product API        | T18, T19      | T18: Pass<br>T19: Pass             |
| 10     | Product Delete API      | T20, T21      | T20: Pass<br>T21: Fail             |

### **5.3 Testing Environment (hardware/software requirements)**

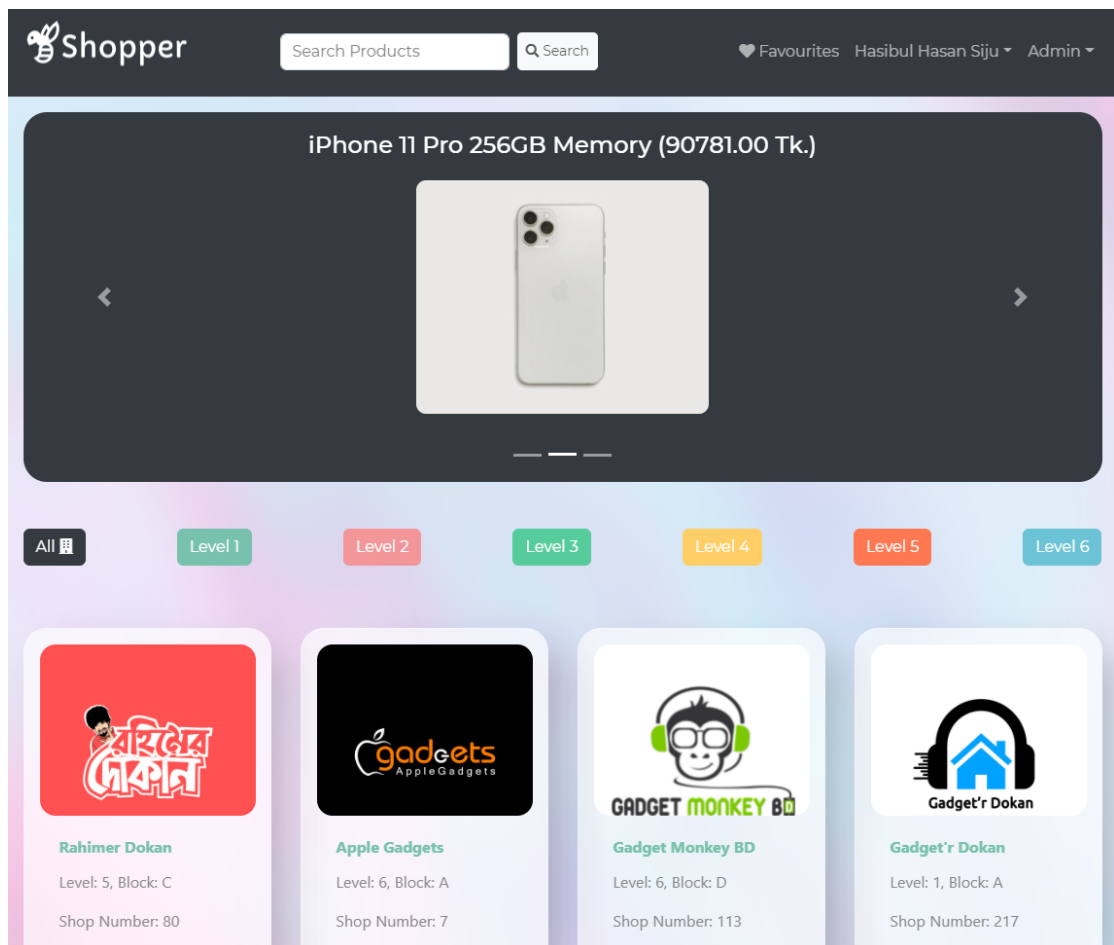
- Mobile device to test responsiveness
- A Desktop to test the web app
- Google Chrome or Mozilla Firefox
- Insomnia to test API

### **5.4 Test Cases**

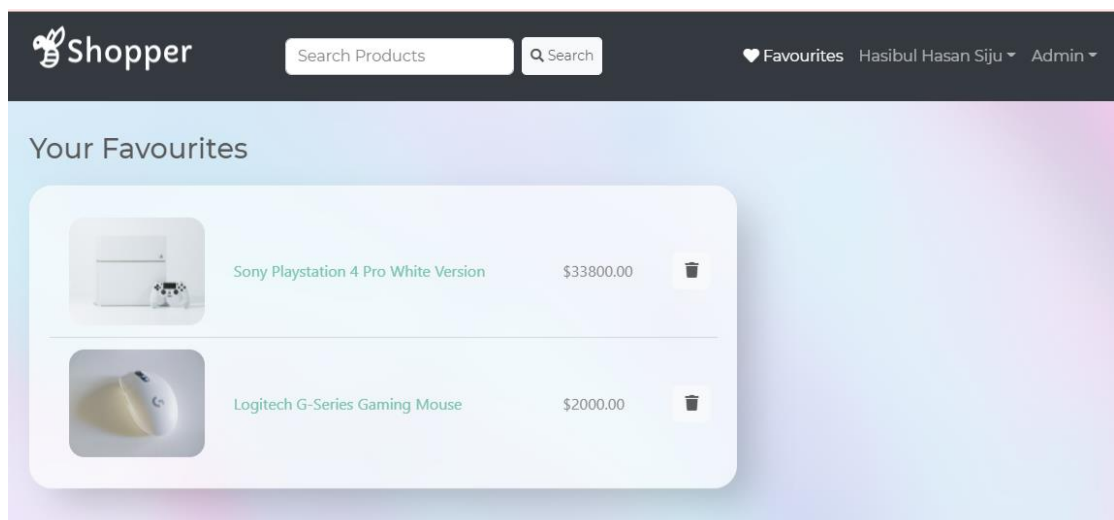
- Check the whole website functional in 325px (small) width devices
- Check proper response message after logging in to the system
- Check every API response and status codes
- Check all API with invalid input to see the status reported

## CHAPTER 6: USER MANUAL

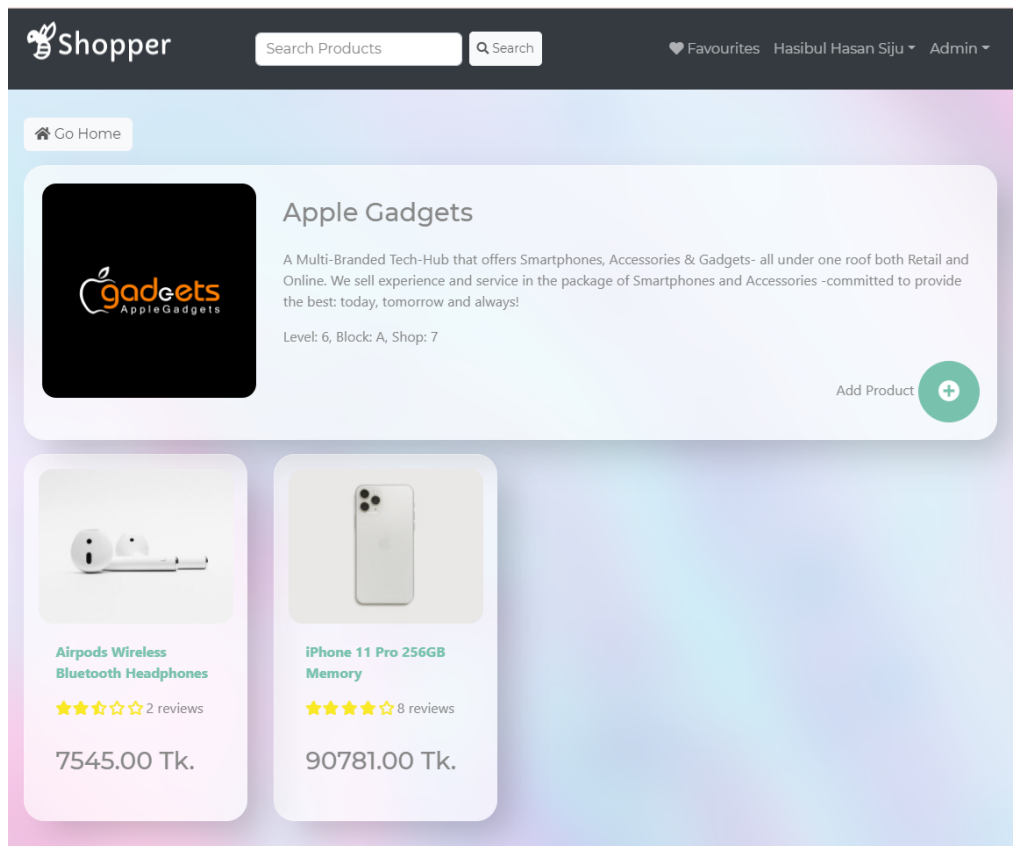
### (Landing Page)



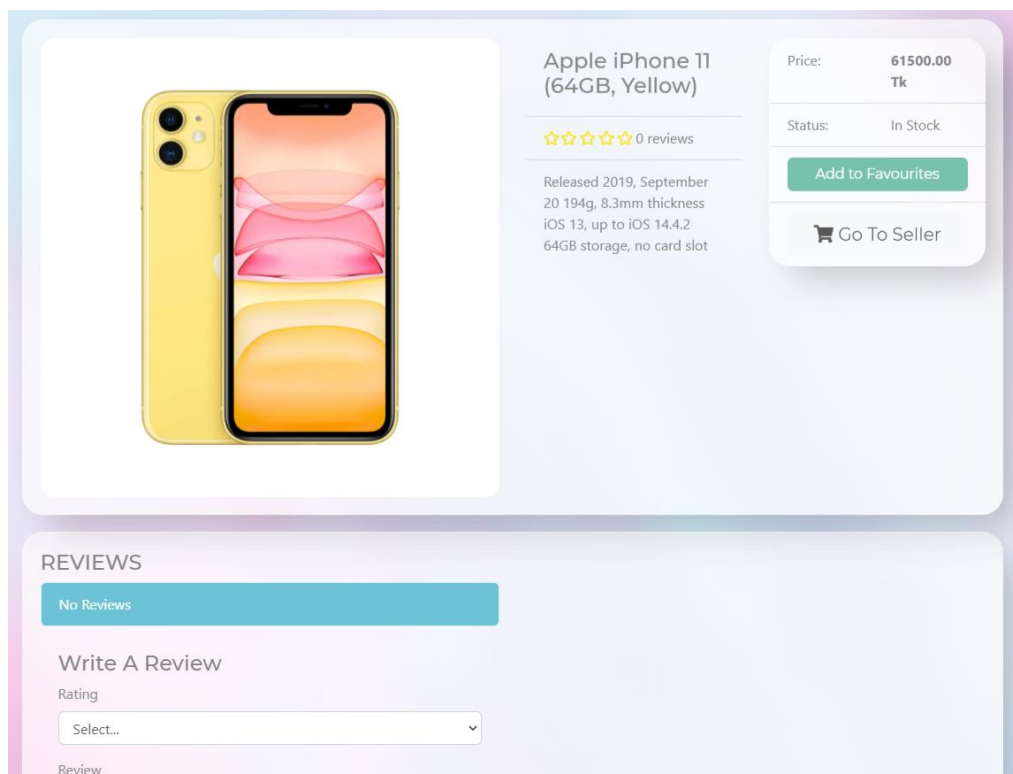
### (Favorites Page)



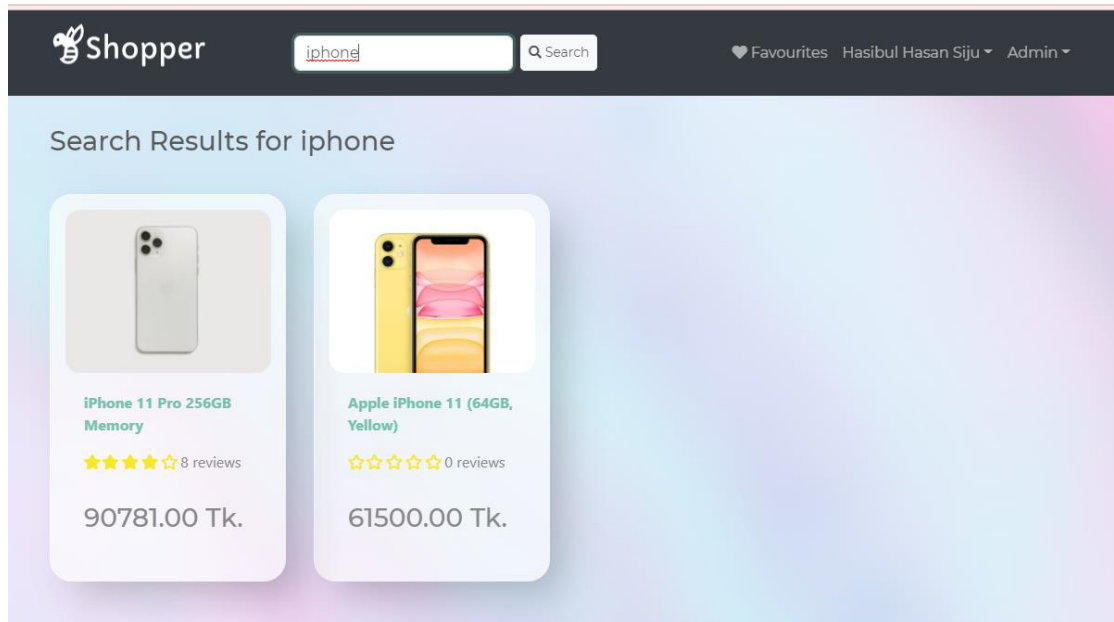
(Products page of a shop)



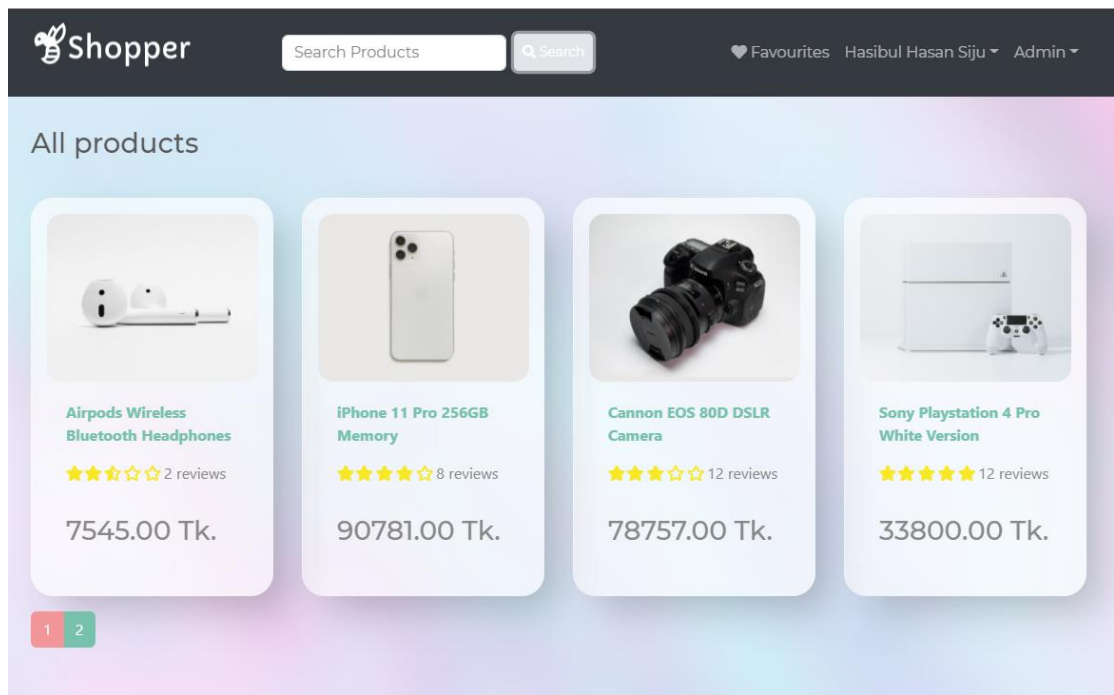
(Products details page)



## (Search Page)



## (All Products Page)



(User)

(User Profile)

The screenshot shows the 'User Profile' page in the Shopper application. The header includes the 'Shopper' logo, a search bar with 'Search Products' and 'Search' buttons, and user navigation links for 'Favourites', 'Hasibul Hasan Siju', and 'Admin'. The main content area is divided into two sections: 'User Profile' on the left and 'My Shops' on the right. The 'User Profile' section contains input fields for 'Name' (Hasibul Hasan Siju), 'Email Address' (siju@gmail.com), 'Password' (Enter Password), and 'Confirm Password' (Confirm Password), followed by an 'Update' button. The 'My Shops' section features a 'Create New Shop' button and a list of existing shops. Two shops are listed: 'Apple Gadgets' and 'Gadget Monkey BD', each with a logo, name, and edit/delete icons.

Shopper

Search Products Search

Favourites Hasibul Hasan Siju Admin

User Profile

Name

Hasibul Hasan Siju

Email Address

siju@gmail.com

Password

Enter Password

Confirm Password

Confirm Password

Update

My Shops

Create New Shop

Apple Gadgets

Gadget Monkey BD

(Create Shop)

The screenshot shows the 'Create Shop' page in the Shopper application. The header is identical to the previous page. The main content area is titled 'Shop Details' and contains a form with the following fields: 'Name' (Sample Name), 'Image' (Enter image, Choose File, Browse), 'Level' (6), 'Block' (C), 'Shop Number' (50), and 'Description' (Enter description). An 'Update' button is located at the bottom of the form.

Shopper

Search Products Search

Favourites Hasibul Hasan Siju Admin

Shop Details

Name

Sample Name

Image

Enter image

Choose File Browse

Level

6

Block

C

Shop Number

50

Description

Enter description

Update

(Product create page)



Search Products

Q Search

♥ Favourites Hasibul Hasan Siju ▾ Admin ▾

### Product Details

Name

Sample Name

Price

0.00

Image

/images/640x510.png

Choose File

Browse

Brand

Sample Brand

Stock

0

Category

Sample Category

Description

Enter description

Update

(Admin)  
(Manage Users)



Search Products

Q Search

♥ Favourites Hasibul Hasan Siju ▾ Admin ▾

### Users

| ID | NAME               | EMAIL              | ADMIN |                                                                                                                                                                             |
|----|--------------------|--------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Hasibul Hasan Siju | siju@gmail.com     | ✓     |   |
| 2  | Rahim              | rahim@gmail.com    | ✓     |   |
| 4  | Jobaeear Hossain   | jobaeear@gmail.com | ✓     |   |

## (Manage Shops)



Search Products

Q Search

♥ Favourites Hasibul Hasan Siju Admin

Shops

+ Create Shop

| ID | NAME              | LEVEL | BLOCK | SHOP NUMBER |                                                                                                                                                                         |
|----|-------------------|-------|-------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Rahimer Dokan     | 5     | C     | 80          |   |
| 2  | Apple Gadgets     | 6     | A     | 7           |   |
| 3  | Gadget Monkey BD  | 6     | D     | 113         |   |
| 5  | Gadget'r Dokan    | 1     | A     | 217         |   |
| 6  | KRY INTERNATIONAL | 5     | C     | 42          |   |
| 12 | Sample Name       | 6     | C     | 50          |   |

## (Manage Products)



Search Products

Q Search

♥ Favourites Hasibul Hasan Siju Admin

Products

+ Create Product

| ID | NAME                                  | PRICE        | SHOP NAME        |                                                                                                                                                                             |
|----|---------------------------------------|--------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Airpods Wireless Bluetooth Headphones | 7545.00 Tk.  | Apple Gadgets    |   |
| 2  | iPhone 11 Pro 256GB Memory            | 90781.00 Tk. | Apple Gadgets    |   |
| 3  | Cannon EOS 80D DSLR Camera            | 78757.00 Tk. | Gadget Monkey BD |   |
| 4  | Sony Playstation 4 Pro White Version  | 33800.00 Tk. | Gadget Monkey BD |   |

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2

## **CHAPTER 7: PROJECT SUMMARY**

### **7.1 GitHub Link**

<https://github.com/hhs98/bshopper>

### **7.2 Limitations**

1. Search: Search Suggestion Could not be build due to technology dependency
2. Statistical View: In Dashboard data visualization of users and products could be better like line charts or pie charts.

### **7.3 Obstacles and achievements**

1. Database Dependency: To improve the search system I wanted to implement Elastic Search but this technology relies on MongoDB (NoSQL Database) but the project is currently built on PostgreSQL (Relational Database)
2. Technology: The frontend of this project is built on React. Most trending framework of this time. It has a learning curve and as a beginner to react I was able to complete the projects major pages in time

### **7.4 Future Scope**

BShopper will be a helpful asset to everyone's daily life. The problem we face navigating a shopping mall is indescribable. In future release BShopper will not be just limited for one shopping mall. It will be expanded so any shopping malls can be added. BShopper will be able to host campaign and Sellers will be able to promote their product.