Text

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**Fashion Star**

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| --- | --- | --- |
| **Supervisor:** | *TRƯƠNG THÀNH TRUNG* | |
| **Semester:** | *IV* | |
| **Batch No:** | *T1.2206.E1* | |
| **Group No:** | *04* | |
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***Month****:4* ***Year****:2024*

Shape, square

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This is to certify that

|  |  |
| --- | --- |
| **Mr.** | **PHAM QUOC CHIEN** |
| **Mr.** | **LUONG HUU NHAN** |
| **Ms.** | **NGUYEN PHUONG HOA** |
| **Mr.** | **TRUONG NGOC MINH CAT** |

Have successfully Designed & Developed

|  |  |  |
| --- | --- | --- |
|  |  |  |
| **FashionStar** | | |

Submitted by:

|  |
| --- |
| **Mr. TRUONG THANH TRUNG** |

Authorized Signature:

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| **Content** | | | |

Content

Acknowledge

Synopsis

Review1 1

Review2

Taskset 51

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| **Acknowledge** |

As we understand that the Project is a step-by- step learning environment that  
closely simulates the classroom and Lab based learning environment into actual  
implementation. It is a project implementation at your fingertips!! An electronic, live  
juncture on the machine that allows you to.

✓ Practice step by step i.e. laddered approach.  
✓ Build a larger more robust application.  
✓ Usage of certain utilities in applications designed by user.  
✓ Single program to unified code leading to a complete application.  
✓ Learn implementation of concepts in a phased manner.  
✓ Enhance skills and add value.  
✓ Work on real life projects.  
✓ Give a real life scenario and help to create applications more complicated and useful.  
✓ Mentoring through email support.

We would like to send a great thank to our professor, Mr Truong Thanh Trung and others teammate for the adorable supports during the time in project.

Beside several mistakes we had made in the project, we hope to have more opportunities to widen our knowledge in web-building world.

We also thank you so much for your information and the “demo” project from India  
APTECH to help us get more reality experience in this project. Since we have gained  
more experience from this project, we will not stop learning anything as much as we  
can be more successful in the future.  
Your Sincerely,  
Team Group 04.

|  |
| --- |
| **Synopsis** |

The Objective of this program we aim is to give a sample project to work on real  
life projects. These applications help us build a larger more robust application.  
The objective is not to teach us front-end or back-end technology but to provide us  
with a real life scenario and help us create basic applications using the tools.

Hence, we can revise the chapters before we start with the project.  
This project is meant for students like us who have completed the module of  
Semester II, as well as special subjects those are Java, Spring Application, Flutter and Dart. These programs should be done in the Lab sessions with assistance of the faculty if required.

The website (in this project) is a world that brings everything about online shopping related to buy more fashionable cloths which enables customer to choose the favourite products and purchase via their own computer and smartphone.

It is very essential for us that will have a clear understanding of the subject. We  
think we should go through the project and solve the assignments as per requirements  
given

**Review 01**

|  |
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| **Problem Definition** |

## Introduction

Fashion Star is one of the business entities major in supplying a wide range of well-known and fashionable products around the globe. Beloved customers can enjoy the best experience of using our service. We are committed to giving the best experience, fair price, and with the best customer service to all customer who want to have a miracle experience with our business.

Indeed, with advancement of the technology, Fashion Star shop would like to develop their own system management with modern tools such as websites and mobile apps. Fashion Star have a plan to direct their customers as well as employees to approach the online platform for saving time and using more features from their services.

## Problem Definition

In today’s digital age, businesses must adapt to meet the demands of tech-savvy consumers. Fashion Star Shop, a thriving retail brand, recognizes the need to enhance its services through modern technology. There are four key aspects of their digital transformation that we would like to introduce in this documentation:

*a. Customer-Focused Web Application:*

The heart of Fashion Star Shop’s online presence lies in a user-friendly web application. Customers can easily register and log in, gaining access to a personalized shopping experience. Customers can explore the entire product coming from many signed up stores with us and even search the products through some functions: searching or filtering. The cart function streamlines the ordering process. Customers can add items, review their selections, and proceed to checkout effortlessly.

Payment Options: Fashion Star Shop supports secure transactions via PayPal and VNPAY, ensuring convenience and trust for their valued clientele. Customer comments and suggestions are actively sought to improve service quality and enhance product offerings.

*b. Mobile App for Shopping:*

Recognizing the ubiquity of smartphones, Fashion Star Shop extends its reach through a mobile app. Customers can place orders anytime, anywhere. The app provides real-time updates on order status. From confirmation to delivery, customers stay informed.

Email Notifications: Order confirmations, shipping alerts, and personalized promotions are delivered straight to customers’ inboxes.

*c. Seller Management Platforms:*

With multiple sellers that they want to join us for contributing our company, efficient order and product management is crucial. Seller at each shop have their own website. They oversee inventory, handle orders, and ensure smooth operations. They can check all products which have been on list of our services. Whether a customer prefers online or in-person shopping, Fashion Star Shop caters to both.

*d. Administrator’s Web Portal:*

Administrator will manage the big picture. A dedicated website allows them to oversee all aspects: with customer accounts: From registration to loyalty programs, administrators handle customer-related matters. Managing all accounts, handling returns, and ensuring timely fulfillment. Seller Oversight: ensuring that all sellers have to be polite.

|  |
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| **Customer Requirements Specifications** |

### 2.1 Functional Requirements for website

|  |  |  |  |
| --- | --- | --- | --- |
|  | **User** | **Admin** | **Seller** |
| **1.1. Login / Registered page** | R1: allow users to enter the page with registered account or can register new account to access the page. | R1: Login to account. | R1: allow sellers to enter the page with registered account or can register new account to access the page. |
| **1.2. Profile page** | R1: Change the password.  R2: Allow to see personal information  R3: Personal information can be edited and updated | R1: Create staff’s account.  R1: Manage all staff account | R1: Change the password  R2: Allow to see personal information.  R3: Personal information can be edited and updated. |
| **1.3.Order page** | R1: Can see the details of the deliverables that he/she has made  R2: Can choose the services of order  R3: Can search the fee of orders | R1: Can see all user’s online orders.  R2: Can update the fee of shipment | R1: Can manage all customers ‘orders. |
| **1.4. Product page** | R1: Can see details of the products and search them. R2: can view details of product. | R1: Can manage products, create more products and update them | R1: Can update the products of branch |
| **1.5.Statistic page** |  | R1: Can view all total of online orders of shop | R1: Can view all total of offline orders of branch |
| **1.5.Cart page** | R1: Can view all items they add in the cart  R2: can adjust the items |  |  |
| **1.6.Payment Orders page** | R1: Visit Orders page.  R2: Make payments for orders they have throughbanking or e-wallet platforms. |  | R1: make orders and make payment through banking or e-wallet platforms. |
| **1.9. Chatroom page** | R1: will have a small chat room that they would like to get in touch with seller to ask some questions |  | R1: will have a small chat room that they would like to get in touch with customer to reply some questions |
| **1.8. Sitemap** | R1: Can view the page sitemap. |  | None |
| **1.9. Contact us** | R1: Visit Contact Page.  R2: Can view contact information. | R1: Visit Contact Page.  R2: Can edit contact information. |  |

### 2.2 Functional Requirements for Mobile

|  |  |
| --- | --- |
|  | **User** |
| **1.1. Login / Registered screen** | R1: allow users to enter the page with registered account or can register new account to access the page. |
| **1.2. Profile screen** | R1: Change the password.  R2: Allow to see personal information  R3: Personal information can be edited and updated |
| **1.3.Order screen** | R1: Can see the details of the deliverables that he/she has made  R2: Can choose the services of order  R3: Can search the fee of orders |
| **1.4. Product screen** | R1: Can see details of the products and search them. R2: can view details of product. |
| **1.5. Cart screen** | R1: Can view all items they add in the cart  R2: can adjust the items |
| **1.6. Chat room screen** | R1: will have a small chat room that they would like get in touch with seller to ask some questions |
| **1.7. payment Orders page** | R1: Visit Orders page.  R2: Make payments for orders they have throughbanking or e-wallet platforms. |

### 2.3. Non-functional Requirement Specifications

**- User-friendly**: The application should be easy to navigate with clear menus and other elements and easy to understand.

**- Operability**: The application should operate in a reliably efficient manner.

**- Performance**: The application should demonstrate high value of performance through speed and throughput. In simple terms, the application should be fast to load and page redirection should be smooth.

**- Scalability**: The application architecture and infrastructure should be designed to handle increasing user traffic, data storage, and feature expansions.

**- Security**: The application should implement adequate security measures such as authentication. For example, only registered users can access certain features.

### 2.4. System Requirement Specifications

2.**4.1 Server Requirement:**

* Hardware:
* Component CPU:
  + Processor type:
  + Pentium IV-compatible processor or faster
  + Processor speed: Recommended: 2.0 GHz or faster
* OS:
  + Microsoft Windows XP or higher with IIS
* Memory (RAM):
  + Minimum: 512MB
  + Recommended: 2GB or more
* Hard Drive:
  + Minimum: 200 MB
  + Recommended: 50 GB or more
  + Maximum: Operating system maximum
* Software:
* Java Spring Boot Application Version 3.0 or more
* RDBMS MySQL
* Flutter and Dart

2.**3.2 Client requirements:**

* Hardware:
* Component CPU:
  + Processor type:
  + Pentium IV-compatible processor or faster
  + Processor speed: Recommended: 2.0 GHz or faster
* OS:
  + Microsoft Windows XP or MacOS …
* Memory (RAM):
  + Minimum: 512MB
  + Recommended: 2GB or more if website, 16GB if using virtual machines for mobile
* Hard Drive:
  + Minimum: 512MB
  + Recommended: 1 GB or more
* Software:
* Web Browser: Microsoft Edge, Mozilla Firefox, Chrome

2.**3.3 Development Software:**

* Spring Tool Suite
* MySQL Workbench
* Microsoft Visual Code
* Android Studio

**2.3.4 Technology:**

* Java Spring Boot Application
* Web: React
* Database: MySQL
* Mobile: Flutter, Dart

**Review 02**

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| **Architecture & Design of the Project** |

A diagram of a software application

Description automatically generated\

1. **Presentation Tier**

* This is the tier in which the users interact with applications. Presentation Tier

contains framework of React for web and Flutter for mobile used to receive a request and response to User and Seller.

* Technology: **React, Flutter.**

**2. Business Logic Tier**

- Is mainly working as the bridge between Data Tier and Presentation Tier. All

the Data passes through the Business Tier before passing to the Presentation

Tier.

* Technology: **Spring Boot API**

**3.Data Access Tier**

- This is basically the server which stores all the application’s data. Data tier

contents Database Tables, Database Views and other means of storing Application’s data.

* Technology: **MySQL**

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| **Data Flow Diagram** |

**1.Login (Users)**

A diagram with lines and squares

Description automatically generated with medium confidence

1. **Logout (users)**

A graph with a white rectangle with black text

Description automatically generated

1. **Profile:**

A diagram of a flowchart

Description automatically generated

1. **Products Order**

**A diagram of a company

Description automatically generated**

1. **Chat Function:**

**A diagram of a flowchart

Description automatically generated**

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| **User Case Diagram** |

1. **User**

A diagram of a company

Description automatically generated

1. **Sellers:**

A diagram of a company

Description automatically generated

**3. Admin:**

A diagram of a login account

Description automatically generated

4. Shippers:

A diagram of a company

Description automatically generated

|  |
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| **A. Entity Relationship Diagram** |

**ERD:** A computer diagram of a computer network

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| **Data Flow Diagram** |

A diagram of a diagram

Description automatically generated

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| **SiteMap** |

Diagram

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| **Algorithm** |

1. **User:**

Diagram

Description automatically generated

1. **Sellers:**

Diagram

Description automatically generated

IsSeller

**Review 03**

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| **Screen shots** |

1. **Web:**

* **User:**

**I. Register page:**

A screenshot of a computer

Description automatically generated

**Description** : Register page allows users to enter information to create an new account and make selections and purchases products.

**From** : Login page

**To** : product menu, about us, …

**II. Log in page**

**A screenshot of a computer

Description automatically generated**

**Description** : Login page allows users to enter information to attend in the system and make selections and purchases products.

**From** : Login page

**To** : product menu, about us, checkout, ...

1. **Product menu page:**

A screenshot of a cell phone

Description automatically generated

**Description** : This is Product menu page. It is used for showing all products that customers that they can select or search by using select all elements: Category,

**From** : Product page

**To** : Can direct to about us, checkout, …or detail page when user click on the one specific product.

1. **Product Detail:**

A screenshot of a computer

Description automatically generated

**Description** : This is Product detail page. It shows details of a products, including price, seller, attributes of products and description. When customer choose “Add”, the cart will receive the data.

**From** : Products page

**To** : Can direct checkout, cart page

1. **Shopping Cart page:**

**A screenshot of a computer

Description automatically generated**

**Description** : This is shopping cart page. It shows all orders when user adds to cart, all products will be included, they can continue shopping to choose more or delete the products. They can even edit the quantity of chosen products. When customer click on “proceed to pay”, it will direct to checkout page.

**From** : Product detail page

**To** : Can direct to checkout page in order to do payment

1. **Checkout page:**

A screenshot of a computer

Description automatically generated

**Description** : This is checkout page when customer buy their products. It will list all orders with total prices. They can use enter more data related to shipping section such as: full name, shipping address, phone number, and payment method. To end process, they click on “place your order”.

**From** : Shopping Cart page

**To** : Notification of successful order.

1. **Notification page,**

* **Seller:**

1. **Login:**

A screenshot of a login form

Description automatically generated

**Description** : This is login page for seller. The seller will register their own account to sign in system.

**From** : index page of seller

**To** : Homepage, categories managements, orders managements

1. **Categories Page:**

A screenshot of a computer

Description automatically generated

**Description** : This is Categories page for seller to create the category for products to sell

**From** : login page

**To** : orders managements, variant management, ...

1. **Product Page:**

A screenshot of a computer

Description automatically generated

**Description** : This is product page. It gives seller insights about book store's performance and can add more some products of their store.

**From** : Home page for seller in in sidebar menu

**To** : Order management page,…

**IV. Order page**

A close-up of a product

Description automatically generated

A screenshot of a computer screen

Description automatically generated

**Description** : This is order page. It allows seller to manage users’orders.

**From** : Tab in sidebar menu

**To** : orders managements, customer management, form edit, form add...

**V. Option Value Page:**

A screenshot of a website

Description automatically generated

**Description** : This is Option value page for seller. The seller can add more edit attribute and options of variants which belongs to product of his/her store.

**From** : Tab side bar menu

**To** : Tab side bar menu

**VI. Variant page :**

A screenshot of a computer

Description automatically generated

**Description** : This is Variant page for seller. The seller can edit some variants of products.

**From** : Product page

**To** : Product page

**B. Mobile**

1. **Home Screen**

A screen shot of a product

Description automatically generated

**Description** : This is home screen of mobile. It start of mobile app

**From** :

**To** : login screen and sign in screen.

1. **Login screen:**

A screenshot of a login form

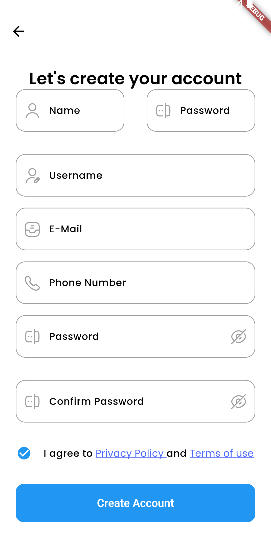
Description automatically generated

**Description** : This is login screen. It allows user to login in system

**From** : Home screen

**To** : Product menu, store screen, …

1. **Sign up screen:**



**Description** : This is sign up screen. It allows user to create their accounts.

**From** : Login screen

**To** : Product screen, Discount Management Page, …

1. **Product Screen:**

**Screenshot of a phone screen with a pair of headphones

Description automatically generated**

**Description** : This is Product Screen. It is used for showing all products that customers that they can select or search,

**From** : Home screen

**To** : Can direct to about us, checkout, …or detail page when user taps on the one specific product.

1. **Product Detail Screen:**

**A screenshot of a red shirt

Description automatically generated**

**Description** : This is Product detail Screen. It shows all details of products,

**From** : Product screen

**To** : Can direct to about us, checkout

1. **Cart Screen:**

**A screenshot of a phone

Description automatically generated**

**Description** : This is Cart Screen. It shows all products that customers choose to save the in cart

**From** : Product screen

**To** : Can direct to Order screen

1. **Order Screen:**

**A screenshot of a phone

Description automatically generated**

**Description** : This is Order Screen. It shows all order that customers would like to do purchases.

**From** : Cart screen

**To** : Can direct to Checkout screen

1. **Setting Screen:**

**A screenshot of a phone

Description automatically generated**

**Description** : This is Setting Screen. It includes all screens such as order management screens, address screen.

**From** : Home screen

**To** : Can direct to Address screen, order screen,…

|  |
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| **Testing document** |

|  |  |  |
| --- | --- | --- |
| **Sr.No** | **Features Tested** | **Remarks** |
| 1 | Records have been stored into the database |  |
| 2 | Queries for functions such as insert, update, or delete has been used sufficiently |  |
| 3 | The tables with foreign keys have been tested | Some of fields of table has not appeared |
| 4 | Validation of register data has been checked |  |
| 5 | Validation of log in data has been checked |  |
| 6 | Validation of input of form from seller page |  |
| 7 | Validation of input of order (shipping information) |  |
| 8 | Validation of input of form from admin page |  |
| 9 | One member does not work in group, making one error mobile platform | Rejecting |
| 10 |  |  |
| 11 |  |  |
| 12 |  |  |
| 13 |  |  |
| 14 |  |  |
| 15 |  |  |

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| **Final checklist** |

|  |  |  |
| --- | --- | --- |
| **Sr.No** | **Aspected Tested** | **Suggestion/**  **Remarks** |
| 1 | Are all the users able to view the images and links? | Yes |
| 2 | Have all the views, modules and controllers been properly integrated and is the site function as a single page application? |  |
| 3 | Are the GUI content devoid of spelling mistakes? |  |
| 4 | Is the application user-friendly? | Yes |
| 5 | Is the Website launching correctly in all popular browsers? | Yes |
| 6 | Are all the forms validated with proper criteria? | Yes |
| 7 | Do all text links lead to the appropriate website? | Yes |
| 8 | Do all image links lead to the appropriate website? |  |
| 9 | Are all the images and links clearly visible on the page? | Yes |
| 10 | Does the Web page work properly in all the tested browsers? | Yes |
| 11 | Does the Web page take too long to be loaded fully? |  |
| 12 | Is the navigation sequences correct through all the Web pages on the site? | Yes |
| 13 | Is the JavaScript, Dart code working as expected in all click events? | Yes |
|  |  |  |
|  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Project Title:**  Fashion Star Shop | | **Activity Plan**  **Prepared**  **By:** | **Date of Preparation of Activity Plan:** | | | |
| **Sr. No.** | **Task** | **Actual Start**  **Date** | **Actual**  **Days** | **Team Mate Names** | **Status** |
| 1 | Introduce | All Members | 02 Apr 2024 | 1 | All members | Completed |
| 2 | Problem Definition | 02 Apr 2024 | 1 | All members | Completed |
| 3 | Requirement & Non-functional requirement | 02 Apr 2024 | 1 | All members | Completed |
| 4 | Process Analyst & Task sheet review | 02 Apr 2024 | 1 | All members | Completed |
| 5 | Entity Relationship Diagram |  | 02 Apr 2024 | 1 | All members | Completed |
| 6 | Data Flow Diagram |  | 02 Apr 2024 | 1 | All members | Completed |
| 7 | Use Case Diagram & Algorithms |  | 02 Apr 2024 | 1 | All members | Completed |
| 8 | Authentication Page (Web +API + Mobile): Login, Register,  Forgot Password | Phạm Quốc Chiến | 02 Apr 2024 | 3 |  | In Process |
| 9 | Account Page (APP + API + Mobile):  Edit Information, Change  Password, Edit State  Account | Phạm Quốc Chiến | 02 Apr 2024 | 3 |  | In process |
| 10 | Home Page (APP + API + mobile ): Display All information: About us, introduce, contact us | Trương Ngọc Minh Cát | 02 Apr 2024 | 3 |  | In process |
| 11 | Product Page (Web + API + Mobile): Show all products | Trương Ngọc Minh Cát | 02 Apr 2024 | 3 |  | In process |
| 12 | Product Detail Page(Web + API + Mobile ): Show details of specific product | Trương Ngọc Minh Cát | 02 Apr 2024 | 3 |  | In process |
| 13 | Cart Page (Web + API + Mobile): show all added items in cart | Trương Ngọc Minh Cát | 02 Apr 2024 | 3 |  | In process |
| 14 | Order Page (Web + API + Mobile ): show order page and check out | Trương Ngọc Minh Cát | 02 Apr 2024 | 3 |  | In process |
| 15 | Payment: (Web + API + Mobile ): create the payment Paypal and VNPAY for orders | Phạm Quốc Chiến | 02 Apr 2024 | 3 |  | In process |
| 16 | Order History and Status Page: show all orders | Trương Ngọc Minh Cát | 02 Apr 2024 | 3 |  | In process |
| 17 | Create Store: make the store seller | Nguyễn Phương Hoa | 02 Apr 2024 | 3 |  | In process |
| 18 | Create Category : (Web + API ): make level of categories for products | Nguyễn Phương Hoa | 02 Apr 2024 | 3 |  | In process |
| 19 | Create products: (Web + API ) : make products to post via platform for customers | Nguyễn Phương Hoa | 02 Apr 2024 | 3 |  | In process |
| 20 | Image Page: (Web + API): create the images for products | Nguyễn Phương Hoa | 02 Apr 2024 | 3 |  | In process |
| 21 | Order Manage Pages : (Web + API + Mobile ): manage all orders of customers of shop | Nguyễn Phương Hoa | 02 Apr 2024 | 3 |  | In process |
| 22 | Option Manage Page : (Web + API): manage all options for products | Nguyễn Phương Hoa | 02 Apr 2024 | 3 |  | In process |
| 23 | Account Manage page : (Web + API): admin will manage all accounts of sellers, customers and shippers | Phạm Quốc Chiến | 02 Apr 2024 | 3 |  | In process |
| 24 | Variant page (Web + API): admin will manage all variant of products, request seller to do properly with variant or banned those variants | Phạm Quốc Chiến | 02 Apr 2024 | 3 |  | In process |
| 25 | Product page (Web + API): admin will manage all product of products, request seller to do properly with variant or banned those products | Phạm Quốc Chiến | 02 Apr 2024 | 3 |  | In process |
| 26 | Store page (Web + API): admin will manage requests of registering store, request seller to do properly or not allow those informations | Phạm Quốc Chiến | 02 Apr 2024 | 3 |  | In process |
| 27 | Statistic page: making report of statistic orders in the period of the days. | Phạm Quốc Chiến | 02 Apr 2024 | 3 |  | In process |
| 28 | Shipper app screen register :(Mobile + API) shipper will register with his account | Lương Hữu Nhân | 02 Apr 2024 | 3 |  | Not Available |
| 29 | Shipper home screen (Mobile + API) : show all details of screens | Lương Hữu Nhân | 02 Apr 2024 | 3 |  | Not Available |
| 30 | Order screen (Mobile + API): shipper will receive orders and entering the code of parcels to gain the order | Lương Hữu Nhân | 02 Apr 2024 | 3 |  | Not Available |
| 31 | Confirm Screen (Mobile + API ): shipper will confirm orders when he/she finishes the shipping | Lương Hữu Nhân | 02 Apr 2024 | 3 |  | Not Available |
| 32 | Chat room page Screen (WEB+ Mobile + API ): | Lương Hữu Nhân | 02 Apr 2024 | 3 |  | Not Available |