

**TEAM 1\_ONLINE SHOP**

**Software Requirement Specification**

– Hanoi, May 2022 –

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**I. Overview**

**1. Introduction**

The web application of the Online Procurement System (ShopOnline) for furniture stores aims to provide complete solutions to suppliers as well as customers through the single use of the internet. It allows customers to choose their favorite items as well as featured items and great promotions (Slider). See the positive as well as negative feedback of other customers (Feedback). Together share beauty secrets, know how to buy at the right time (Blogs).



**2. System Functions**

*a. Screen Flow*



*b. User Authorization*

|  |  |  |  |
| --- | --- | --- | --- |
| **Screen/Functions** | **Admin** | **Customer** | **User** |
| Homepage | X | X | X |
| Blog | X | X | X |
| Blog Detail | X | X | X |
| Feedback |  |  | x |
| Feedback List | X | X |  |
| Feedback Detail |  | x |  |
| User Login | X | X | X |
| User Register |  | X | X |
| Slider list | X | X | X |
| Products List | X | X | X |
| Product Details | X | X | X |
| User Profile | X | X | X |
| Users List | X |  |  |
| User Details | X |  |  |
| Change Password | X | X | X |
| Customers List | X |  |  |
| Customer Details | X |  |  |
| Orders List | X |  |  |
| Posts List | X | X |  |
| Post Details | X | X |  |
| Order Information | X |  |  |
| Order Details | X |  |  |
| My Orders | X |  | X |
| Cart Contact | X |  | X |
| Cart Details | X |  | X |

**3. Tool and Infrastructures**

|  |  |  |
| --- | --- | --- |
| **#** | **Category** | **Tools/Infrastructures** |
| 1 | Techology | Languague: Java + JSP+HTML+ Xamapp |
| 2 | IDEs/Editors | Netbeans IDE 8(8.2 or more) |
| 3 | Database | MySql of Xamapp |
| 4 | Diagram Programing | Draw.io |
| 5 | Documentation | Google docs/sheet, Word |
| 6 | Version Control And Manage Source Code | Gitlab, Google Drive |
| 7 | Deployment Server | None |
| 8 | Project Management | Google meet(Tasks)  Meeting minutes(schedule work) |

**3.1 Assumptions**

System’s name**: Online Shop** **(OS)**

This system is designed based on:

* Windows 10/11
* JDK 16
* Java
* Xamapp/MySQL
* Netbeans 8 (8.2 or more)

**3.2 Design Constraints**

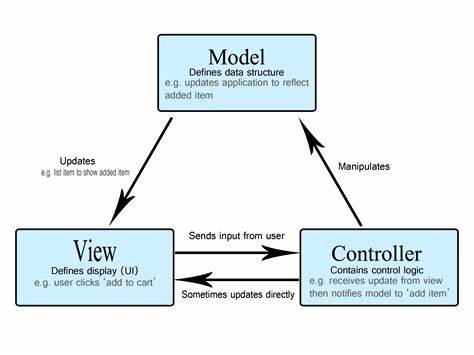
* It is a sales website with user and management sides. In the epidemic situation, a website for users to buy goods is really necessary.
* End-user’s Environment: Windows Version >=10.
* Database: MySQL and Xamapp.
* Support language: Eng and VN.
* Criteria: snappy, soft and responsive.
* Permission: Internet Access

**3.3 System Architecture Diagram**



**3.3.1 Component Explanation**

**3.3.1.1 MVC model**



MVC (short for Model - View - Controller) is a type of software architecture pattern that separates the logic in the application into three main components: Model, View and Controller with each component having a separate function.

* Models manage application behavior and data.
* View has the function to perform tasks related to display functions (text, images, graphics...) in the application.
* Controller has the function to perform tasks related to handling input provided to the application (maybe from users or other applications) and send requests to the Model or View for further processing.

**3.3.1.2 JSP, Servlet**



JSP stands for Java Server Pages is a technology for building web applications that support dynamic content and acts as a Java servlet technology. You can consider it a different option to a servlet, and it has a lot more capabilities than a servlet.

Servlet is a server-side Java program module that handles client requests and implements the servlet interface. Servlets can respond to any type of request, and they are commonly used to extend the applications hosted by web servers.

**3.3.1.3 Xamapp**



XAMPP is a popular**cross-platform web server** that allows programmers to write and test their code on a local webserver. It was created by Apache Friends, and the public can revise or modify its native source code. It includes MariaDB, Apache HTTP Server, and interpreters for PHP and Perl, among other computer languages.

**3.3.1.4 MySQL**



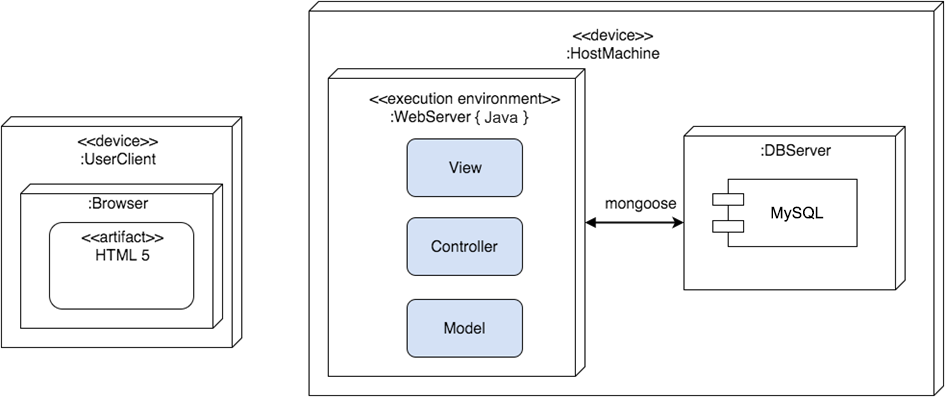
MySQL is a relational database management system (RDBMS) developed by Oracle that is based on structured query language (SQL). A database is a structured collection of data.

**3.3.1.5 NetBeans**



NetBeans is an integrated development environment (IDE) for Java. NetBeans allows applications to be developed from a set of modular software components called modules. NetBeans runs on Windows, macOS, Linux and Solaris. In addition to Java development, it has extensions for other languages like PHP, C, C++, HTML5, and JavaScript.

**4. Deployment Diagram**

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**II. Functional Requirements**

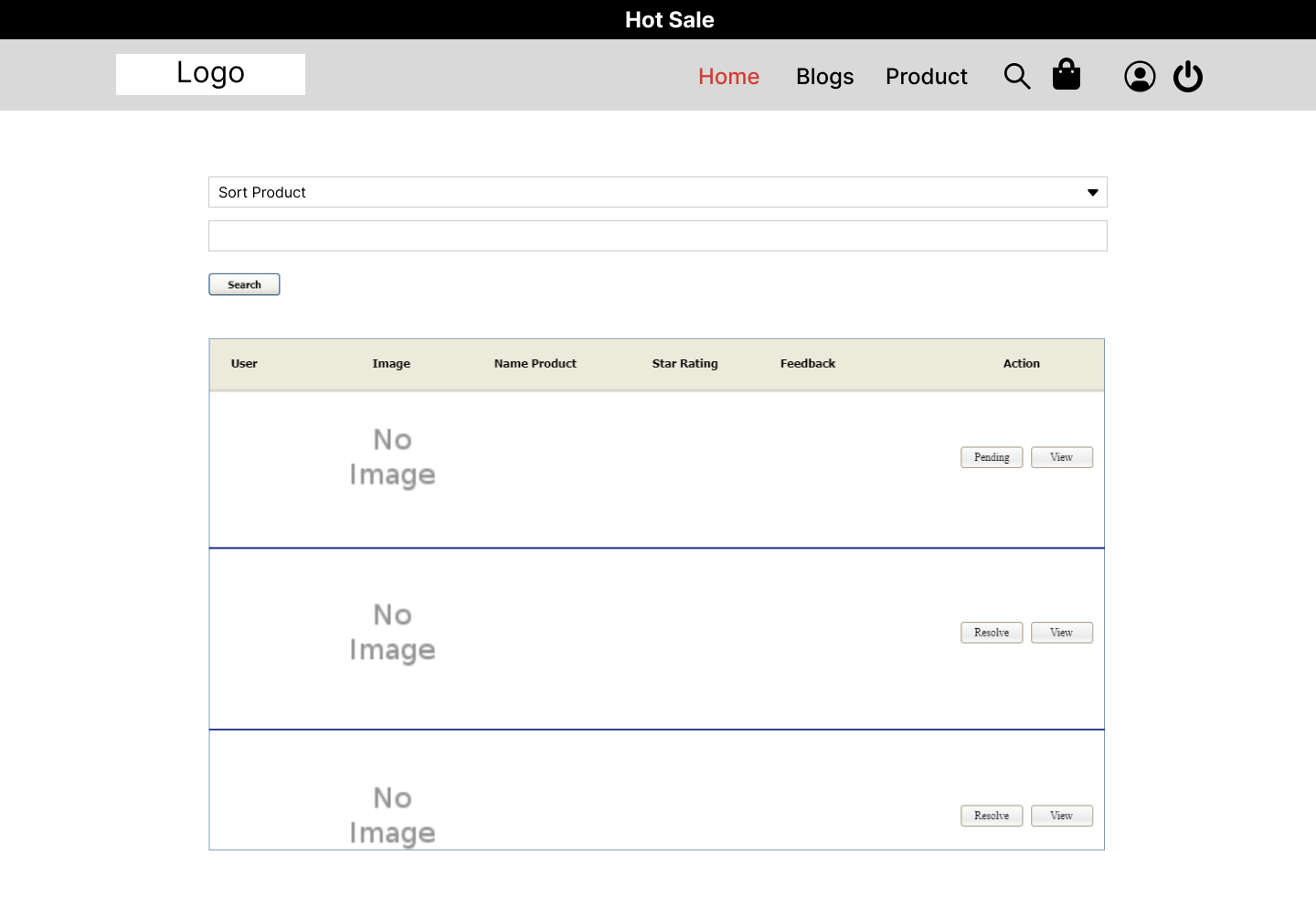
**1. Marketing**

*a. Feedbacks list*

*· Function trigger: /Feedbackcontroller*

*· Function description: Customer*

*· Screen layout:*

**

Function Details:

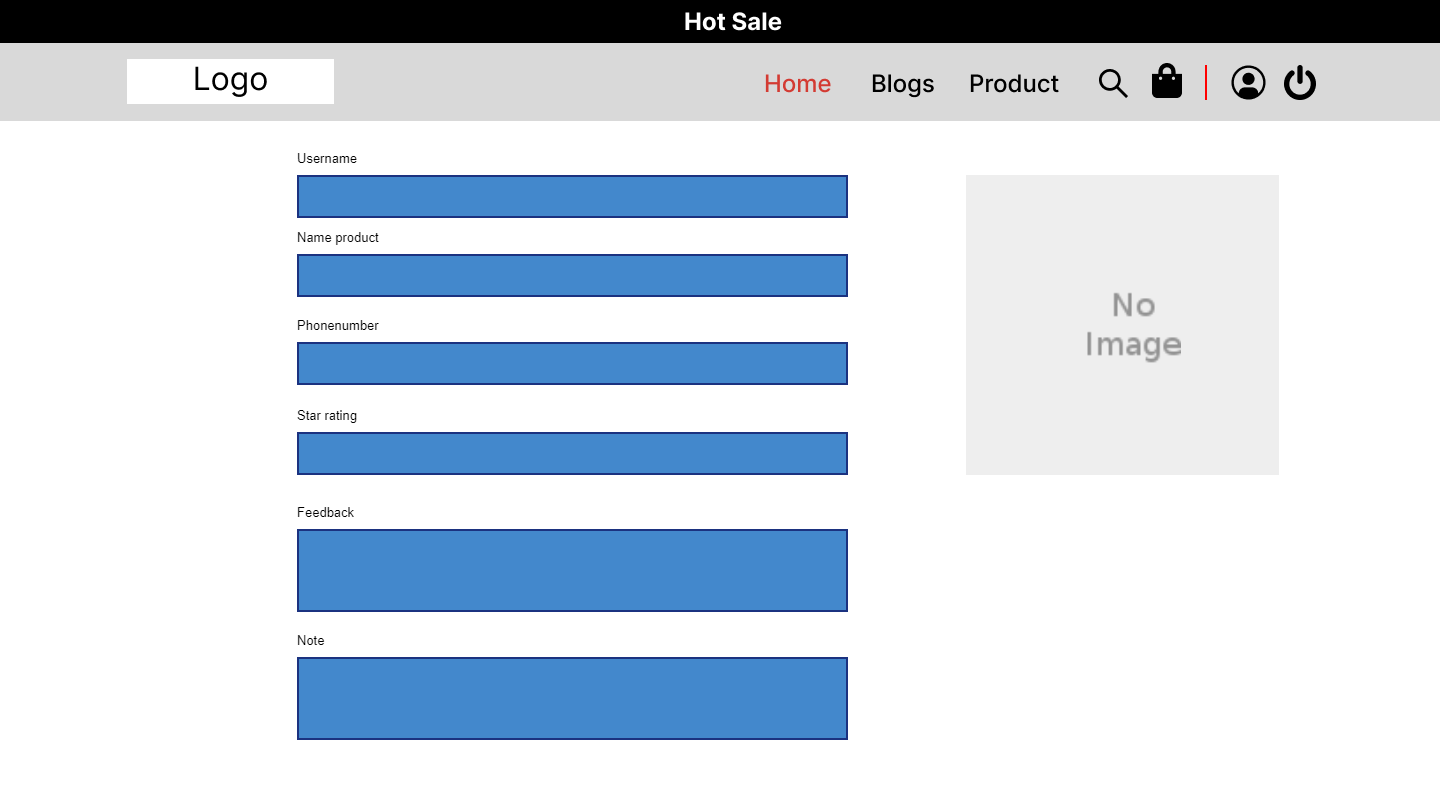
* Is a function for Customers to manage orders of customers who have purchased shoes. In "Action" there are two states "Pending" and "Resolve" so that the customer knows that he has processed this order yet.
* Have pagination, search to best support customers, and watch customer feedback

*b. Feedback Details*

*· Function trigger: /FeedBackDetail?*

*· Function description: Customer*

*· Screen layout:*

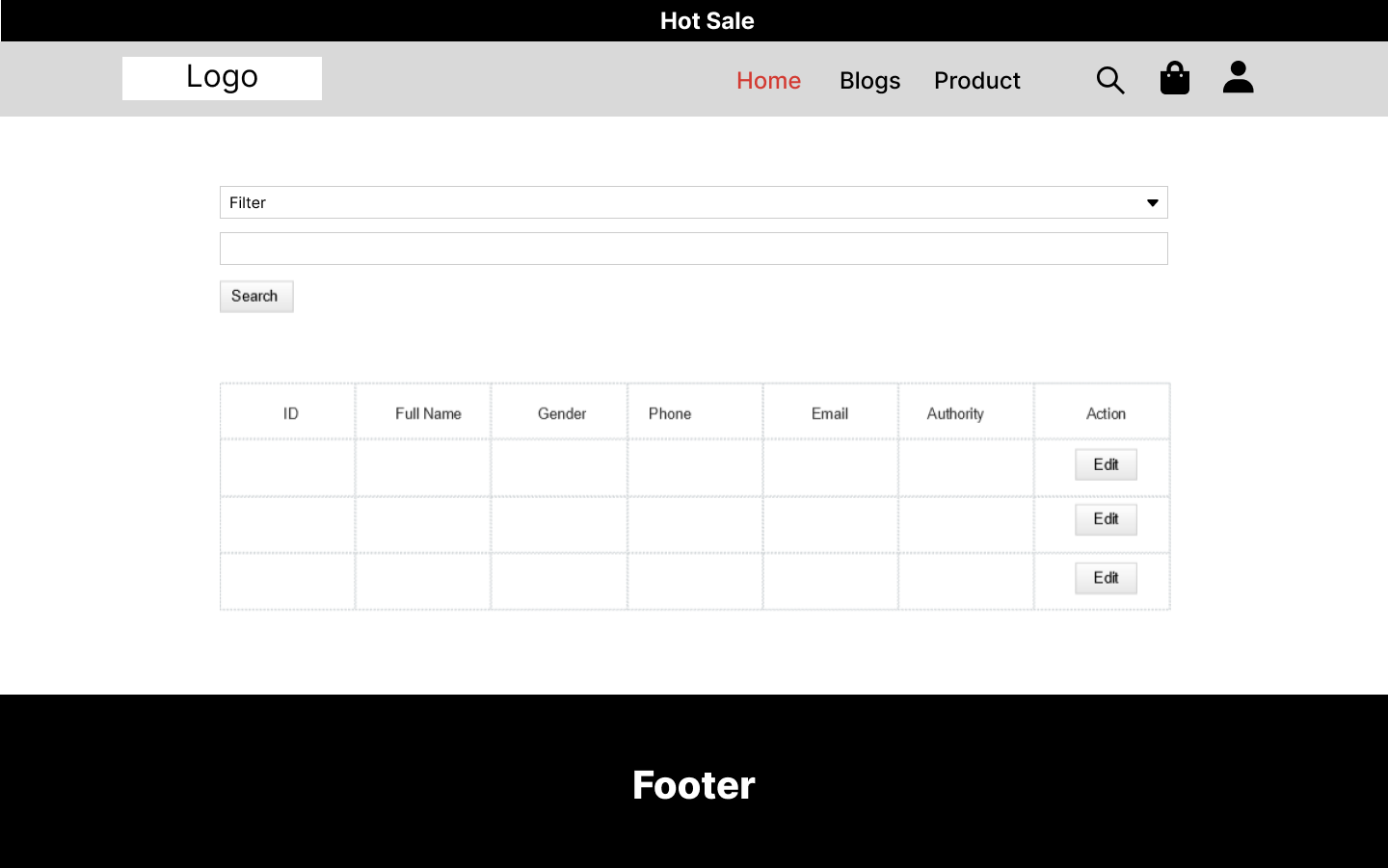


Function Details:

* Display customer information, number of stars and customer feedback. There is a 'note' section for customers to note shortcomings or improvements from customer feedback

*c. Customer List*

Function trigger : HomeController/ListCustomer

Screen layout : 

Function detail :

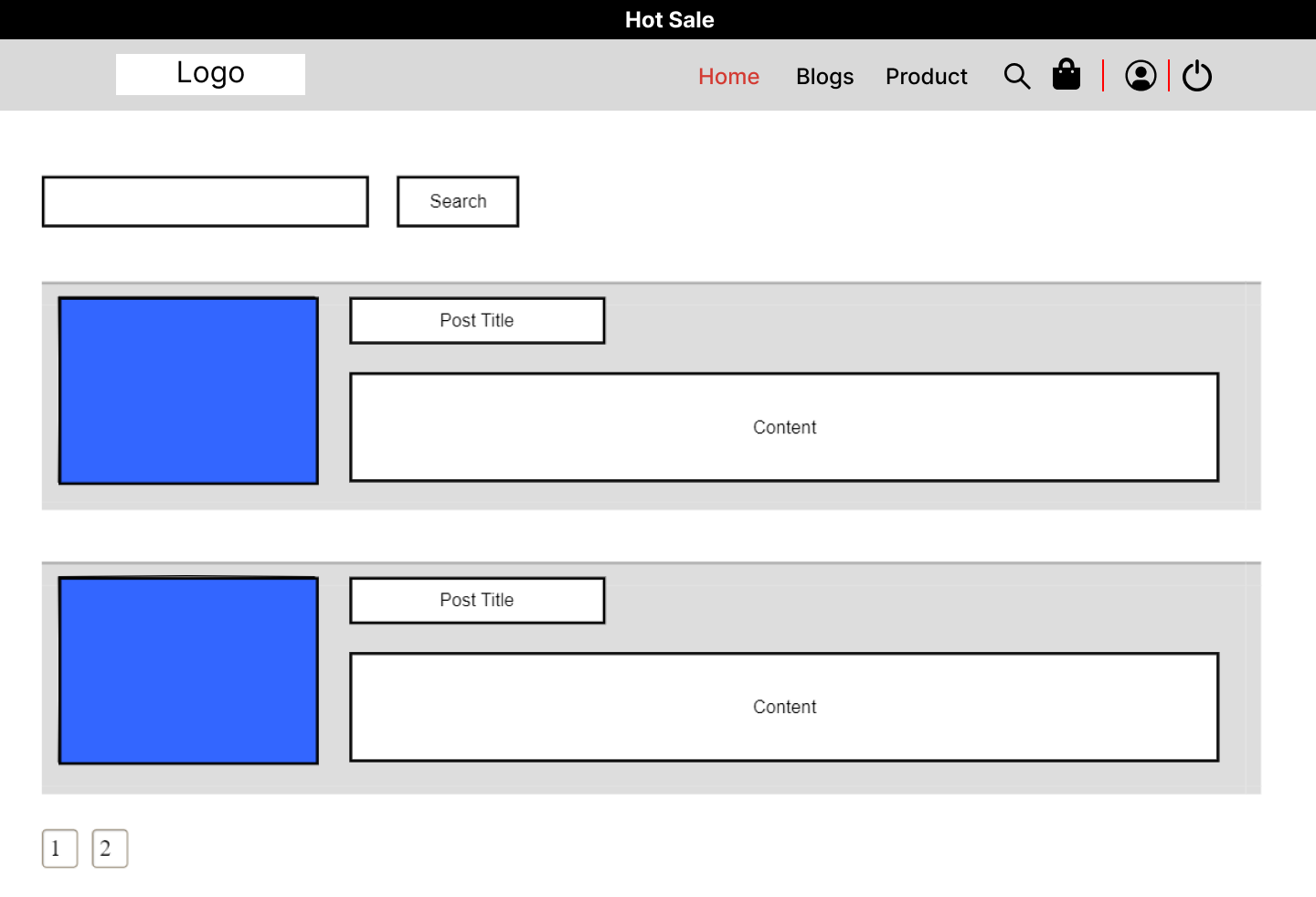
* Show the list of customers / contacts paginatedly (include contacts' id, full name, gender, email, mobile, status):
* Sortable by full name, email, mobile, status
* From each customer, the user can choose to add new, view or edit it

*d. Post List*

Function trigger: Homepage/Post

Function description: User, Admin

Screen layout:



Function detail:

- Show the paginated list of posts contain id thumbnail, title

- User can filter the post or sort by category, author, status

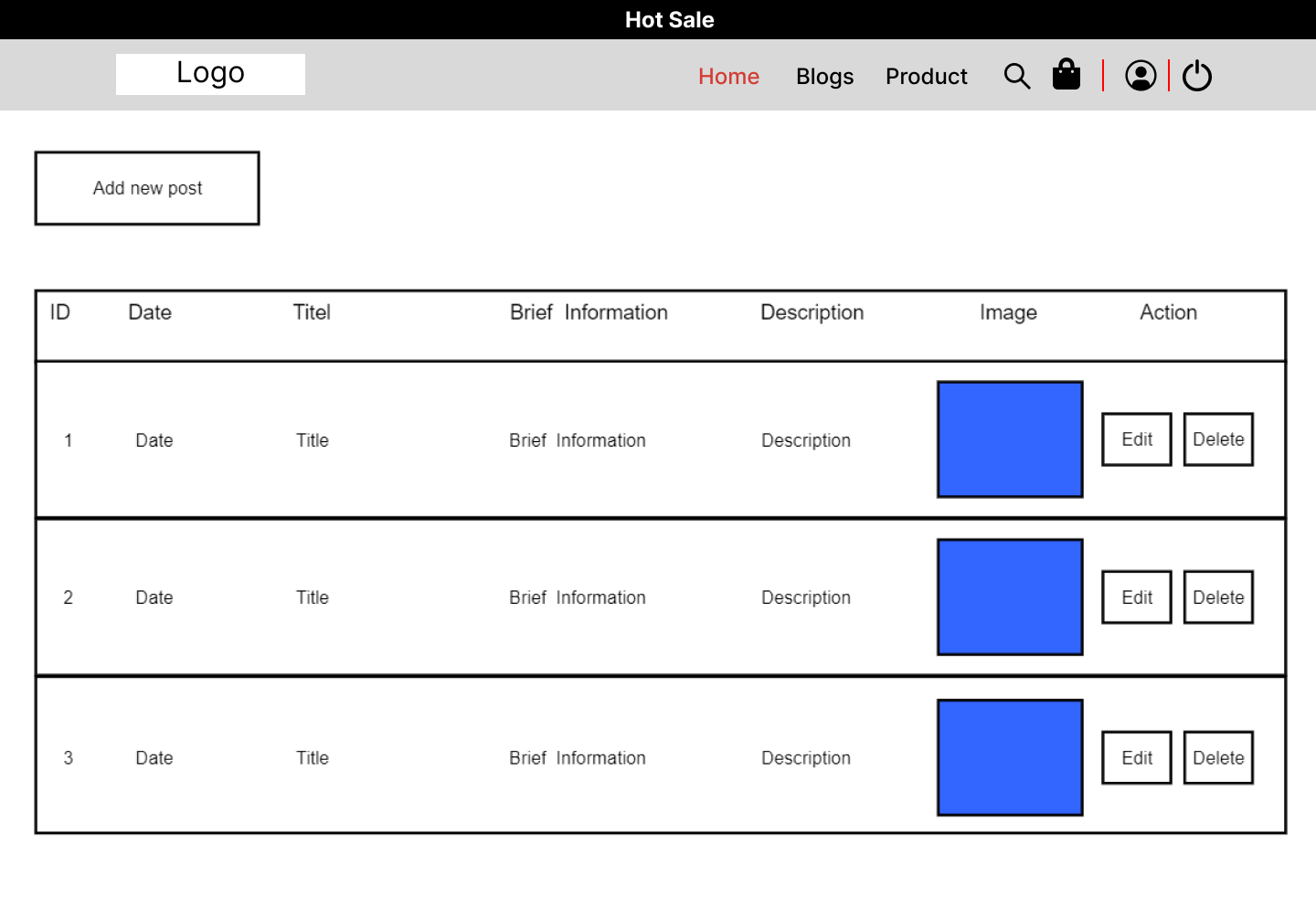
- User can choose to add, show, edit or delete post

*e. Post Detail*

Function trigger: Homepage/Cart.

Function description: User, Admin

Screen layout:



Function detail:

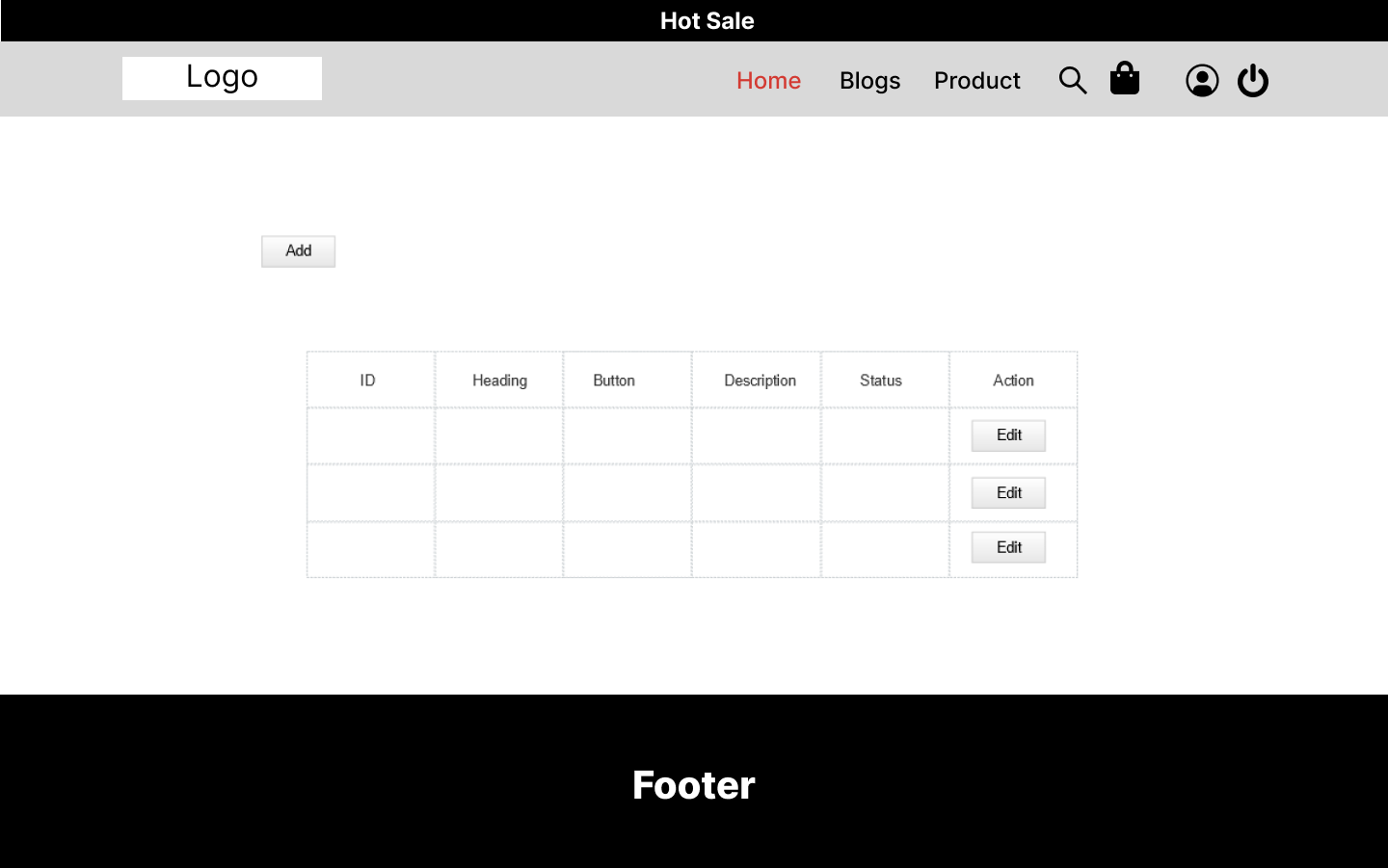
- Show detailed post information include thumbnail, category, brief information, author, feature and status

f. Sliders List

Function trigger : HomeController/listslide

Function description: Admin

Screen layout :



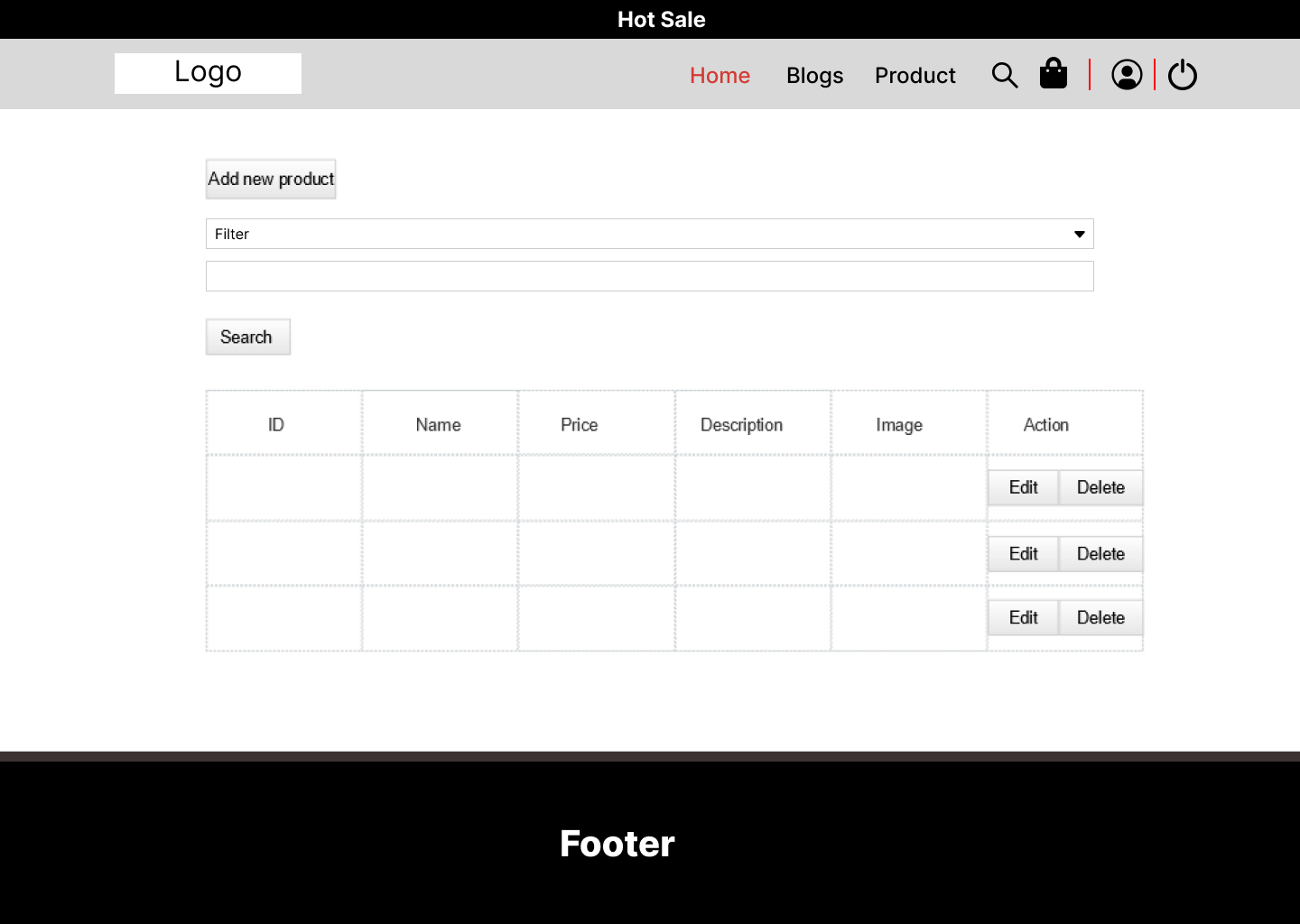
Function detail : 'This is a pop-up screen which allows the user to change his/her password by inputting his current password as well as new password (twice)

g. Products List

Function trigger : HomeController/listproduct

Function description: Admin

Screen layout :



Function detail :

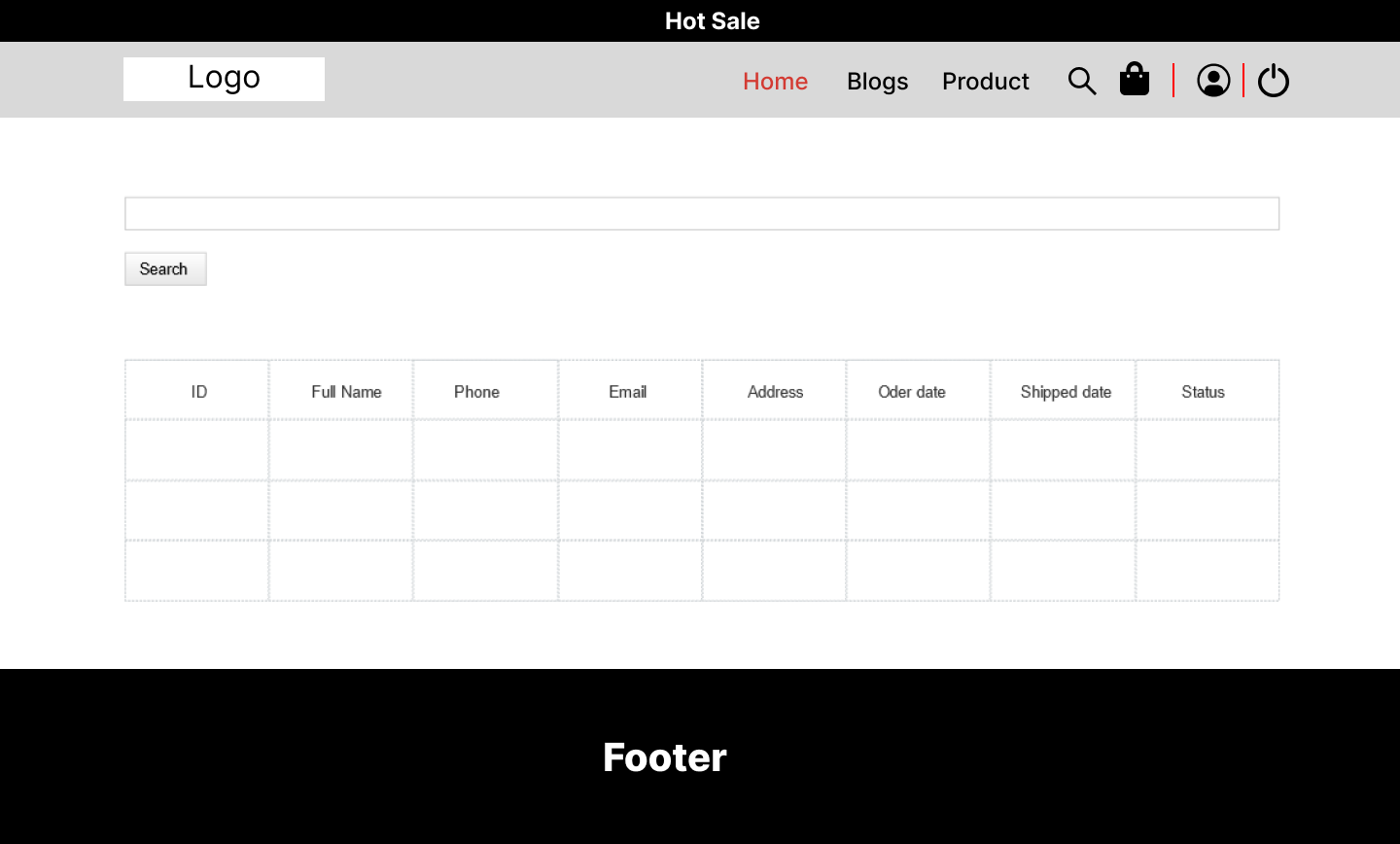
* This is a pop-up screen which allows the user to edit his/her profile information, including the registered ones & the avatar image. Please note that s/he is not allowed to change the emailDetails page

h. Orders List

Function trigger : HomeController/orderlist

Function description: Admin

Screen layout :



Function detail :

* Show the list of orders paginatedly
* Each order include below information: id, ordered date, customer name, product (first product name & number of other products if any), total cost, status;
* Allow the user to search the orders by order id, customer name
* On clicking the link under the order id, user would be redirected to the Order Details page

i. Customer Detail

Function trigger : HomeController/ListCustomer/ProfileUserController

Function description: Admin

Screen layout :



Function detail :

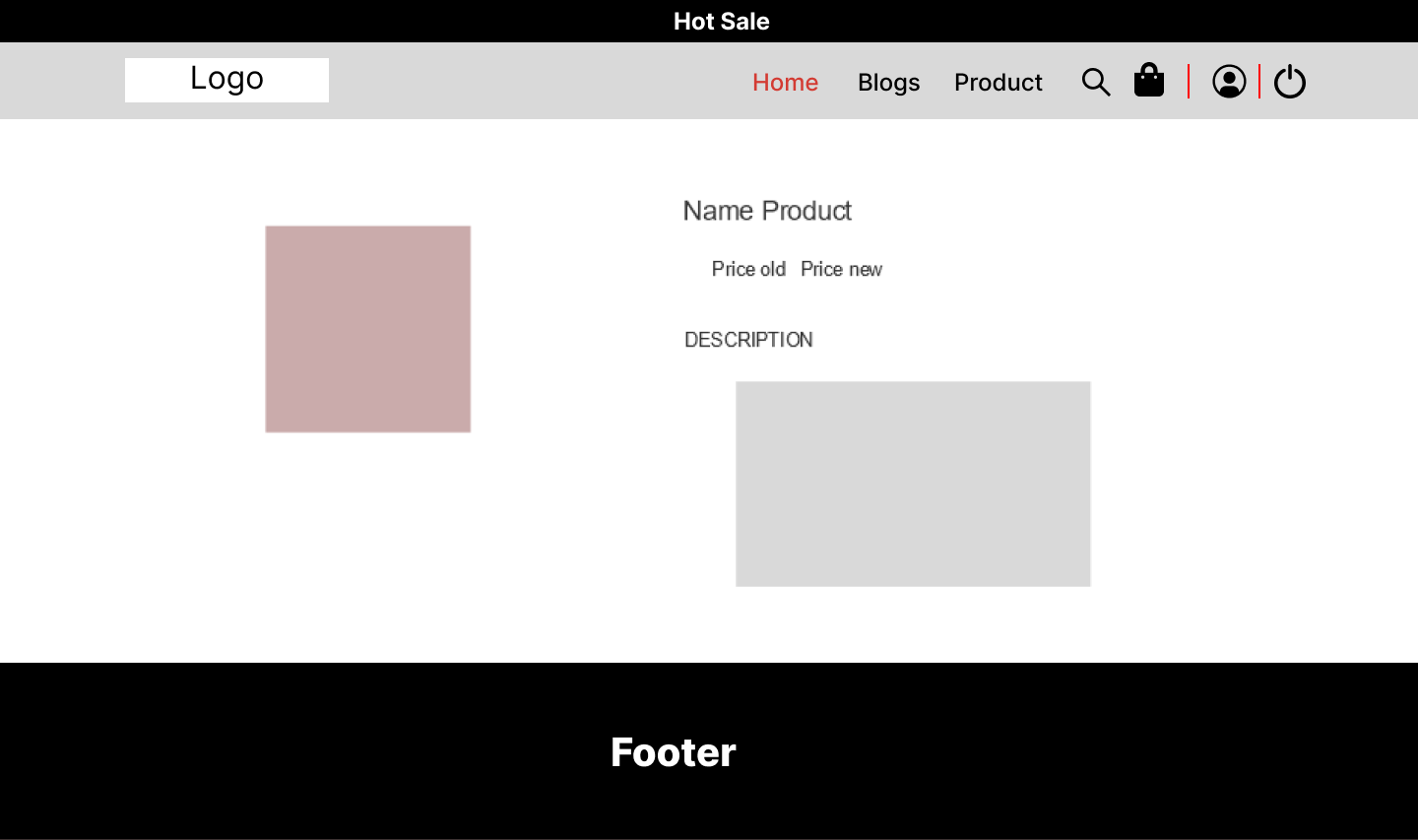
* Show detailed customer/contact information (full name, gender, email, mobile, address, status), from that allow the user to input, view or edit them (excep for the status which is generated automatically - contact, potential or customer)

k. Product detail

Function trigger : HomeController/listProduct/DetailProductcontroller

Function description: Admin

Screen layout :

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Function detail :

* Show detailed product information (thumbnail, category, title, brief information, attached images, description, quantity, list price, sale price)

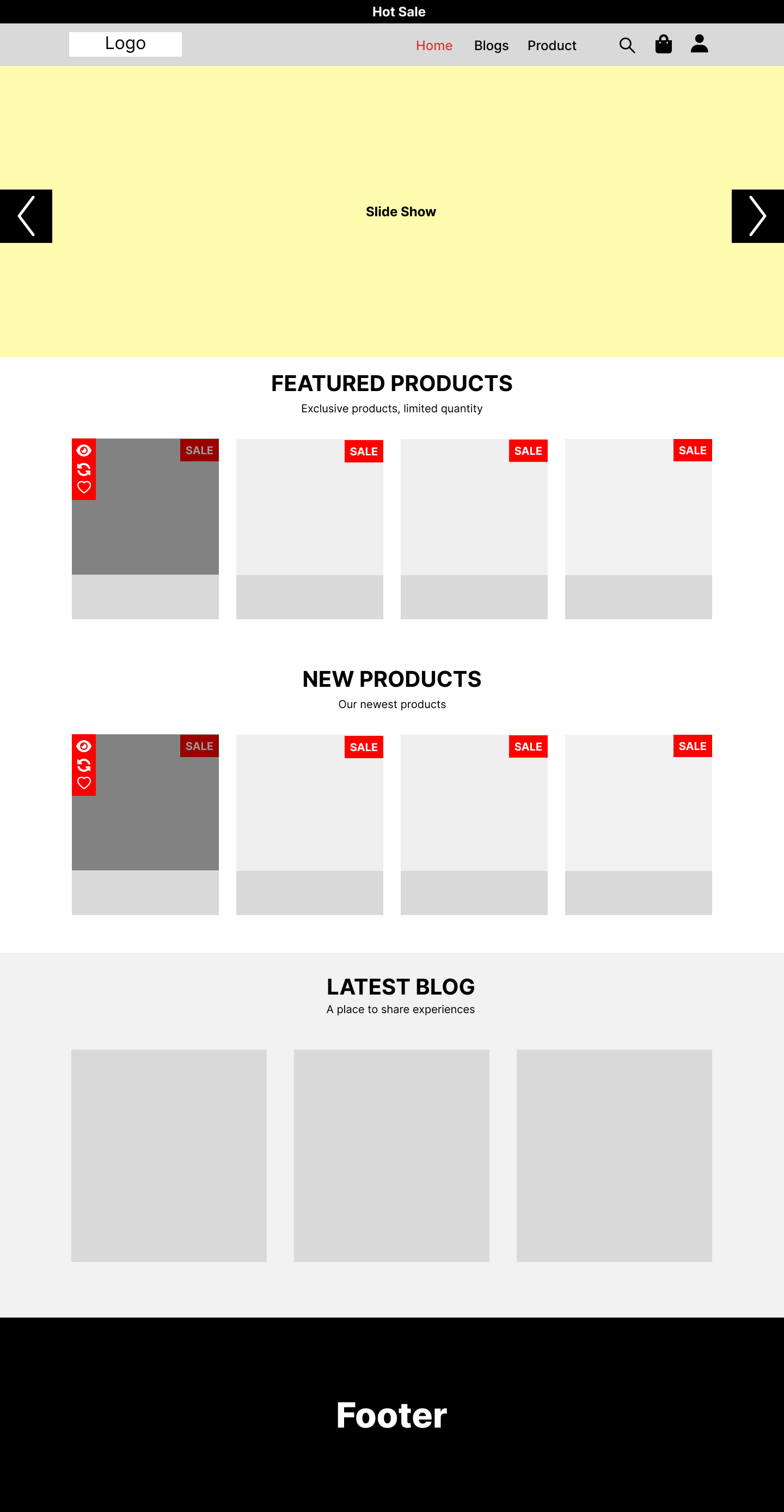
**2. Public**

*a. Home Page*

*· Function trigger: /HomeController*

*· Function description: Admin, Customer, User*

*· Screen layout:*



Function detail :

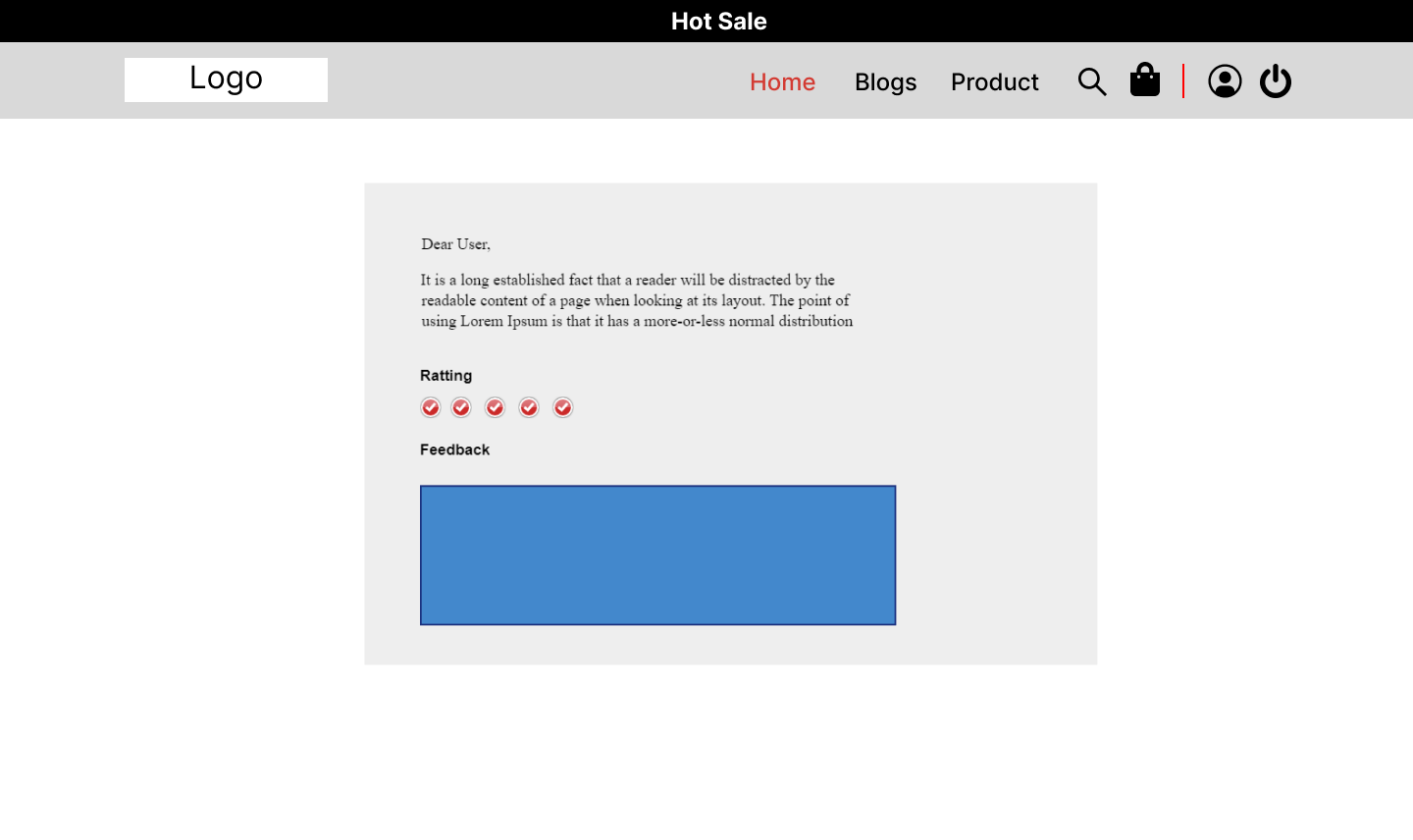
* The page that the user will see before and after logging in. Show featured products, new products, valuable experiences.
* From this page users can access the Blog, Product page

*b. Feedback*

*· Function trigger: /Feedback?pid=?*

*· Function description: User*

*· Screen layout:*



Function detail :

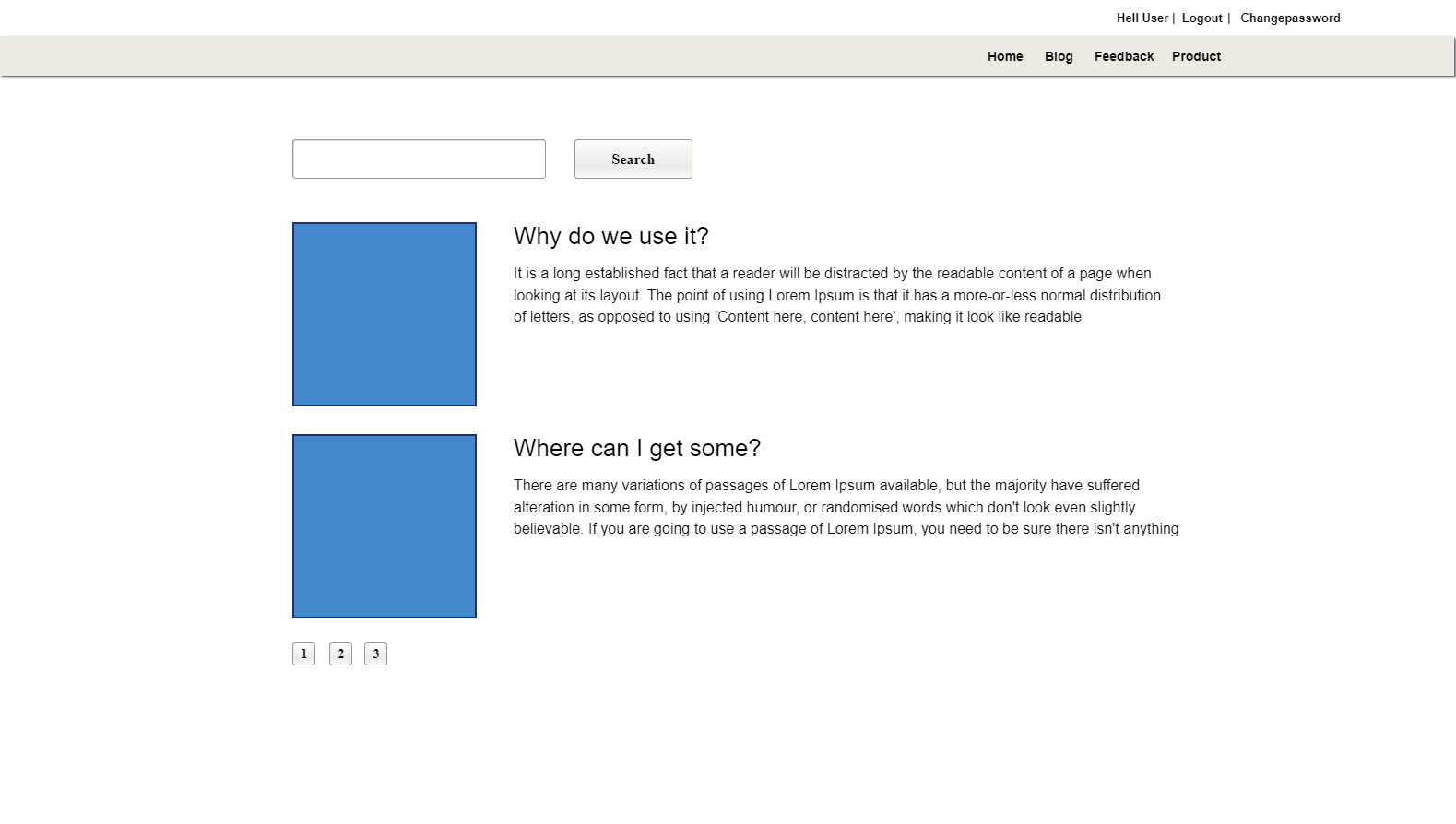
* After making a purchase, the user will receive a feedback email about the product
* Click on the link displayed in Mail. Customers will be redirected to a new website to reflect on the product including content and stars

*c. Blogs List*

*· Function trigger: /blog*

*· Function description: User, Customer, Admin*

*· Screen layout:*



Function detail :

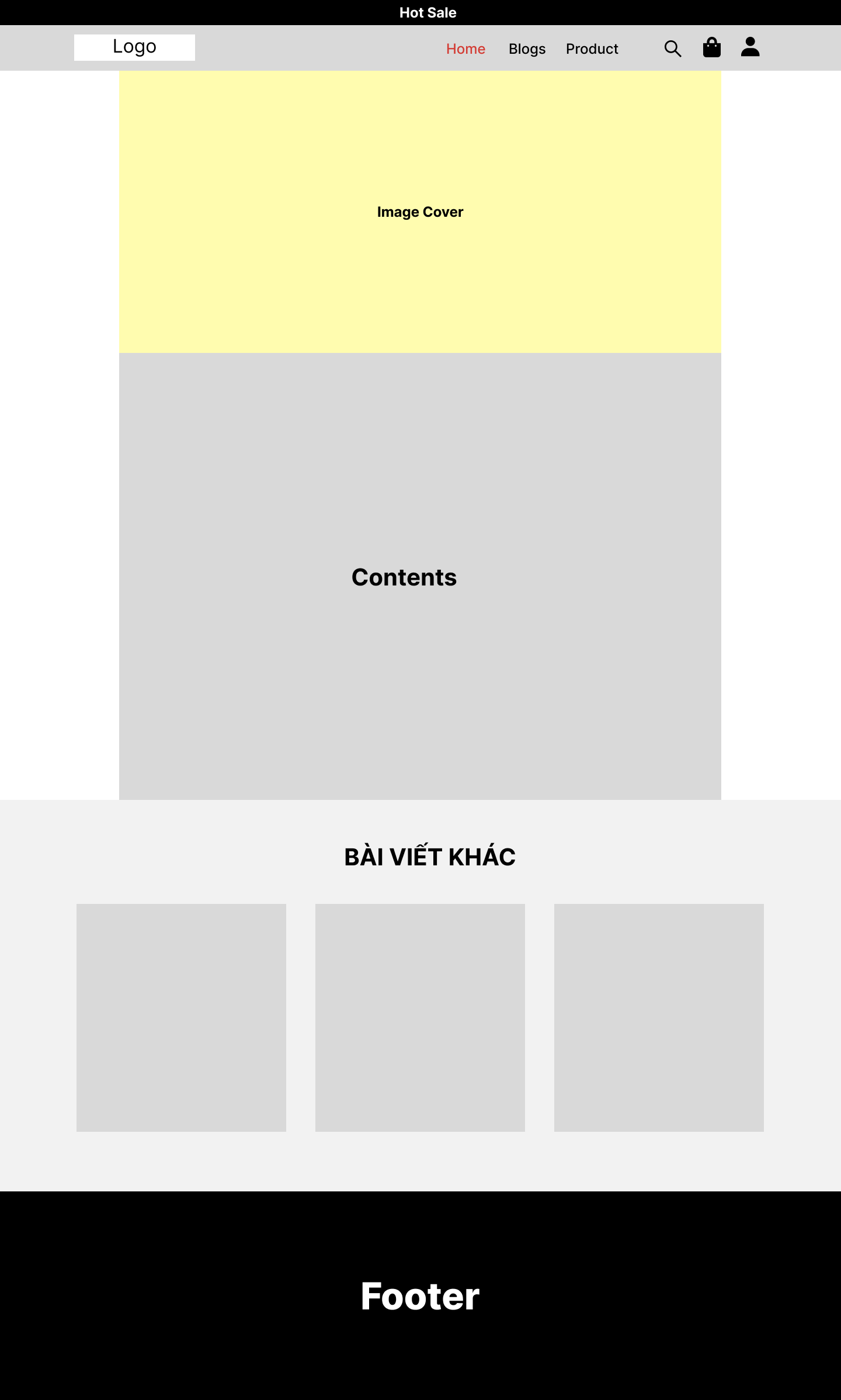
* Experience sharing page written by customer or admin.
* There is a search function so that users can more easily find interesting readings

*d. Blog detail*

*· Function trigger: /blogdetail?id=?*

*· Function description: User, Customer, Admin*

*· Screen layout:*



Function detail :

* Show article details including content title
* Besides, users can see how related posts are on the right side of searching other articles viết

*e. Cart Details*

Function trigger: Homepage/Cart.

Function description: User, Admin

Screen layout:



Function detail:

- Show the cart details with list of the chosen products display information such as title, price, quantity and total cost

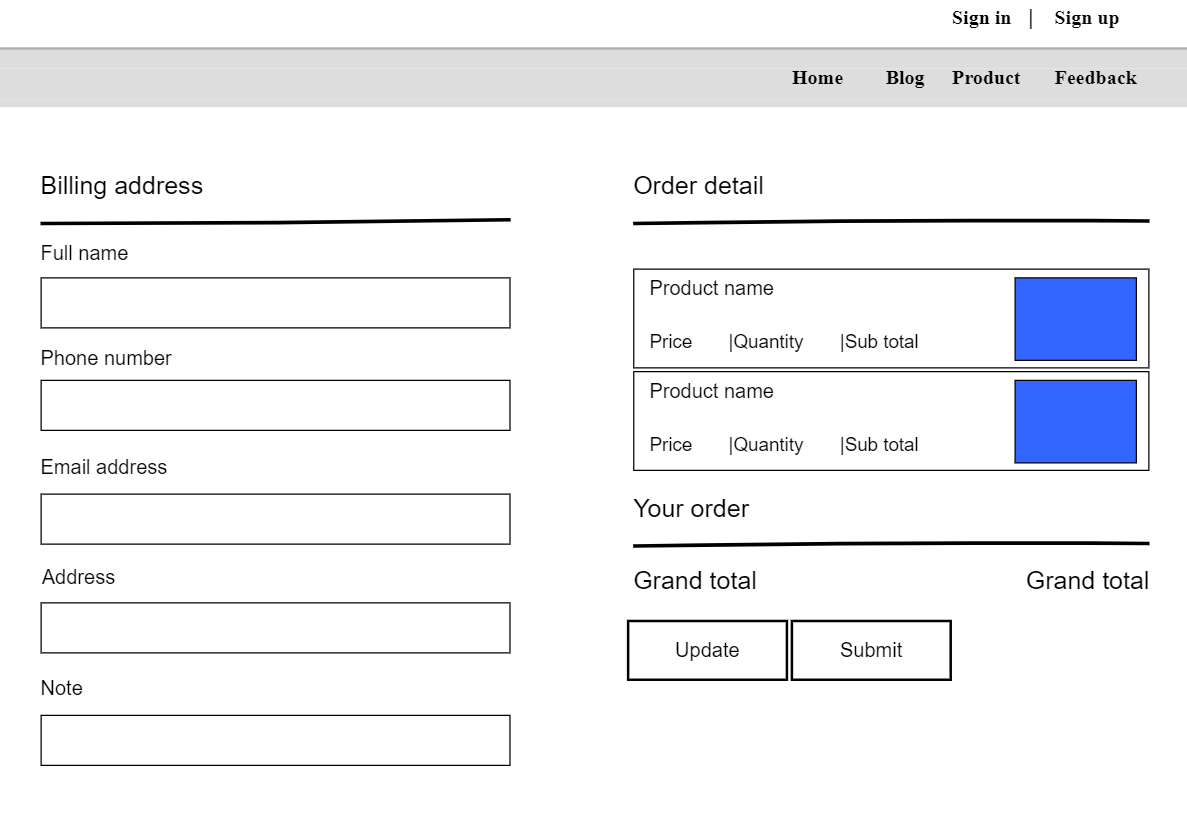
- User can perform some action: change quantity, remove chosen product, buy more product or check out

*g. Cart Contact*

Function trigger: Homepage/Cart/Cart detail

Function description: User, Admin

Screen layout:



Function detail:

- Show the list of the chosen products display information such as title, price, quantity and total cost

- Show the slider with search box, product category, latest product

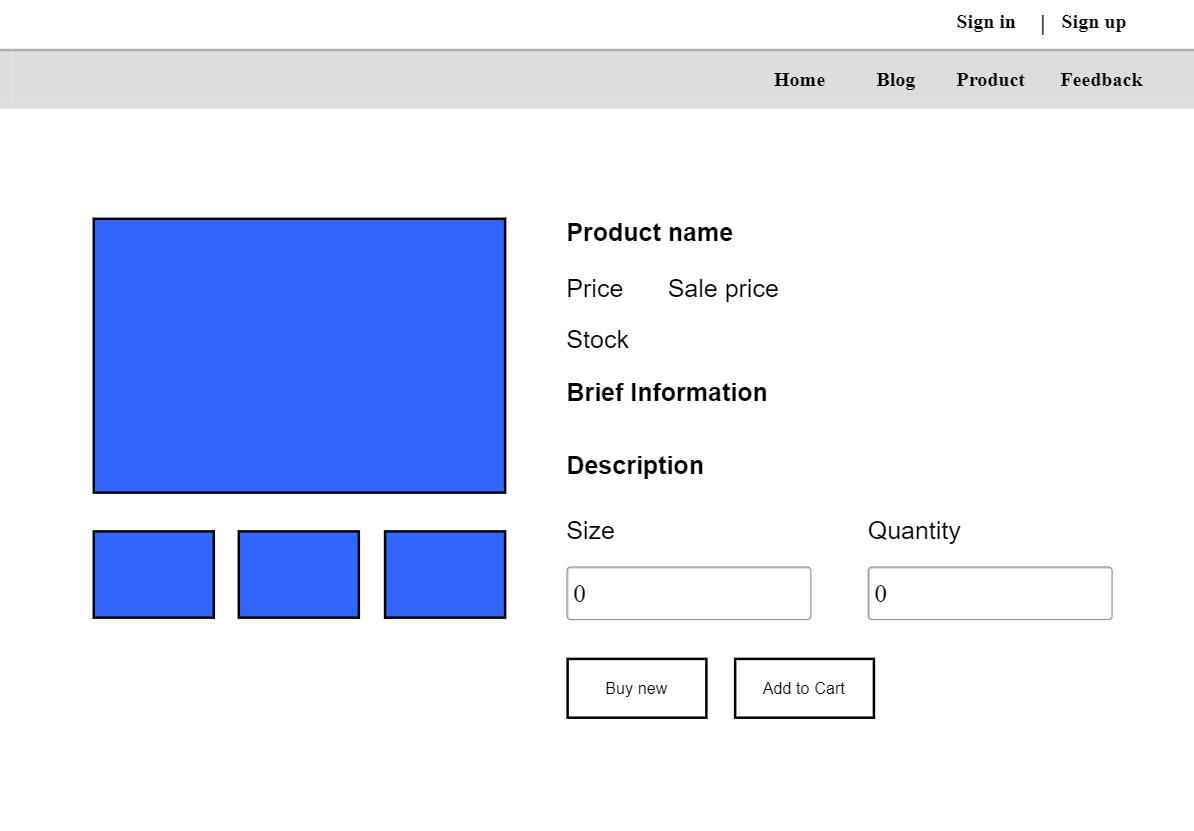
- User can input their receiver information including their name, phone, email, address

*h. Product Details*

Function trigger: Homepage/click on the product you want to look at.

Function description: Customer, User, Admin

Screen layout:



Function detail:

- Show product details including title, images, price brief information and description

- Show sider with other information such as search box, product categories, the latest products, and static contacts/links

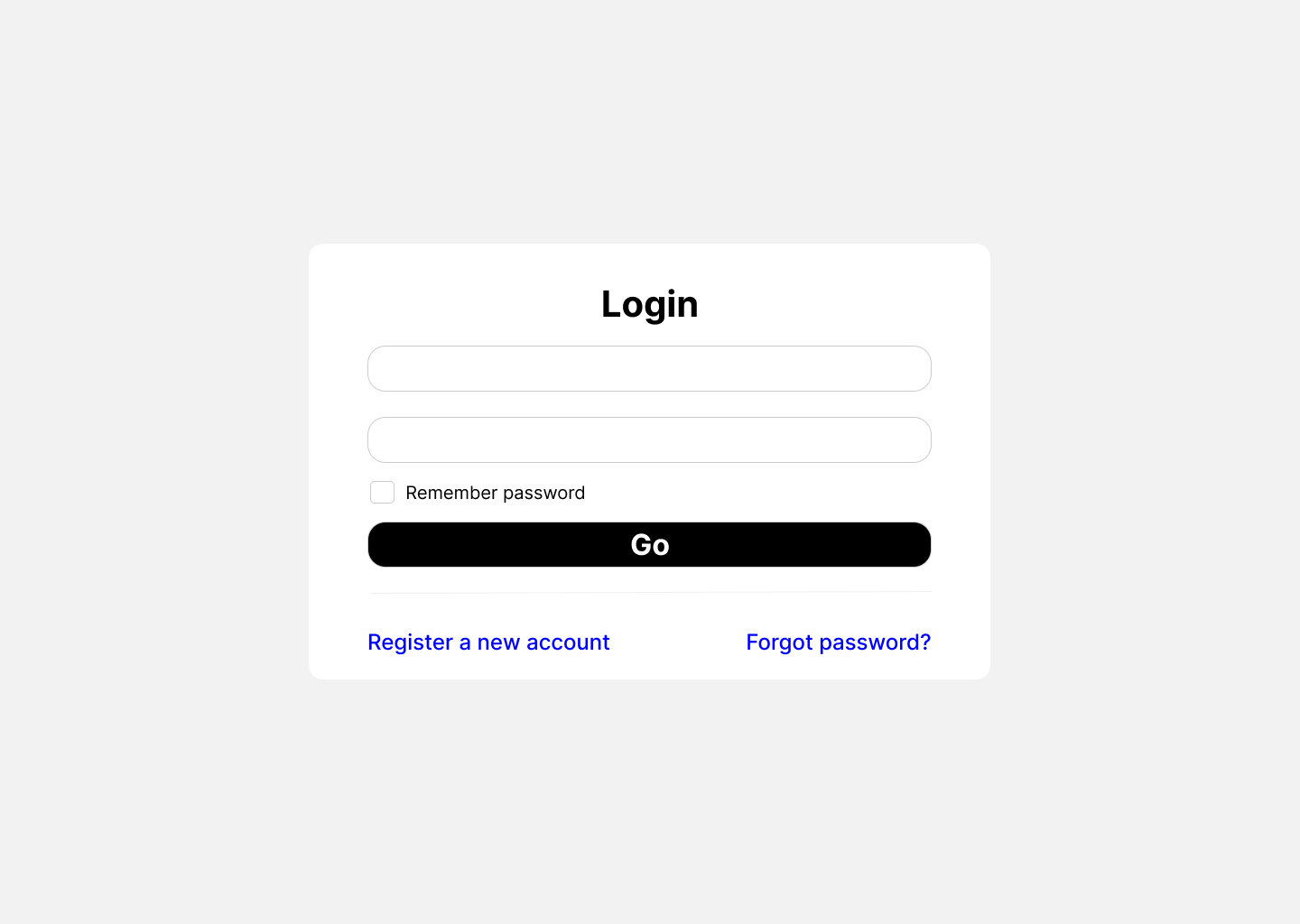
**3. Common**

*a. User Login*

*· Function trigger: /login*

*· Function description: User, Customer, Admin*

*· Screen layout:*



Function detail :

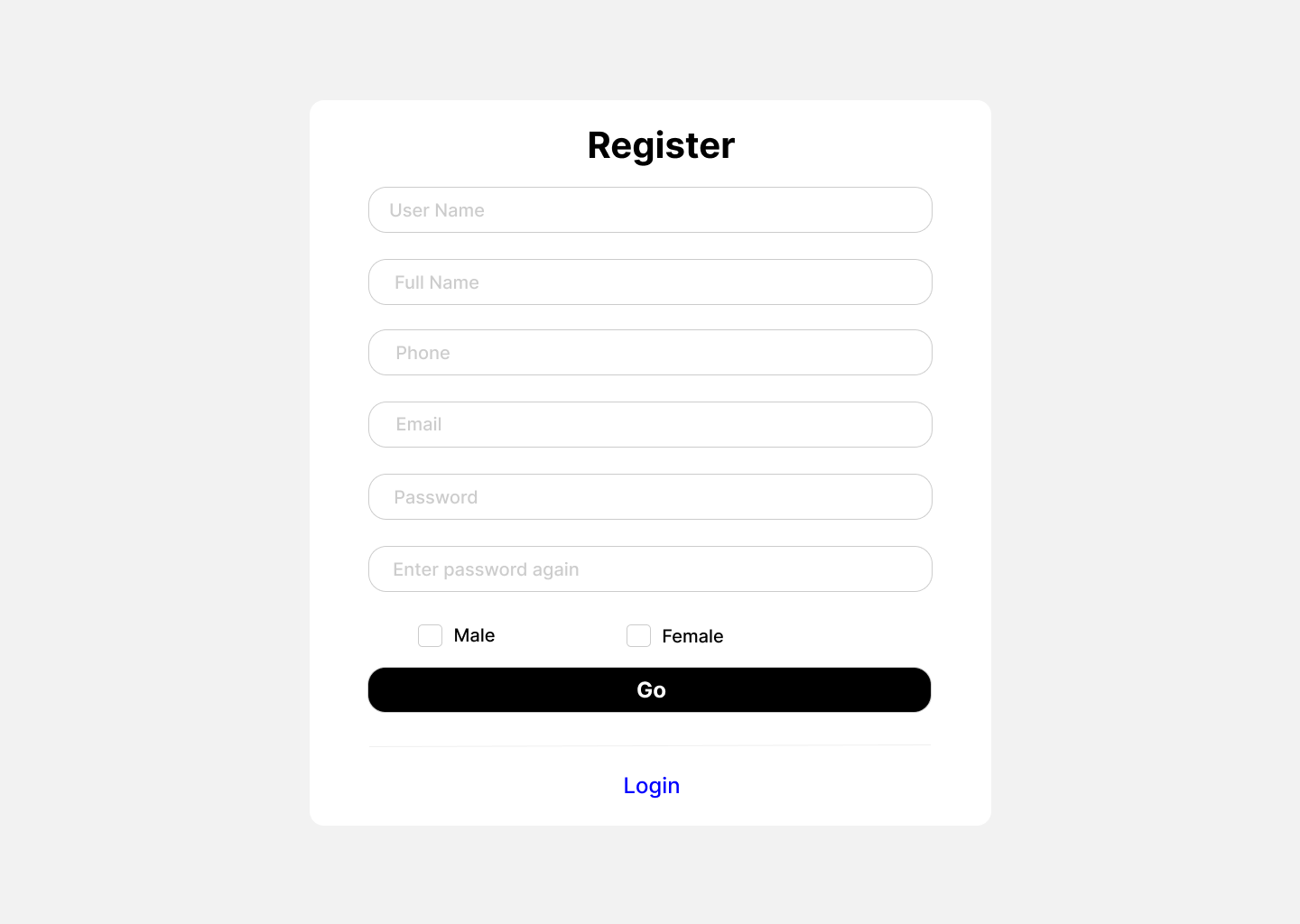
* As a user, the function can make purchases after logging in.
* After checking correct Gmail and password user can login to website and tasks in it

*b. Register*

*· Function trigger: /register*

*· Function description: User*

*· Screen layout:*



Function detail :

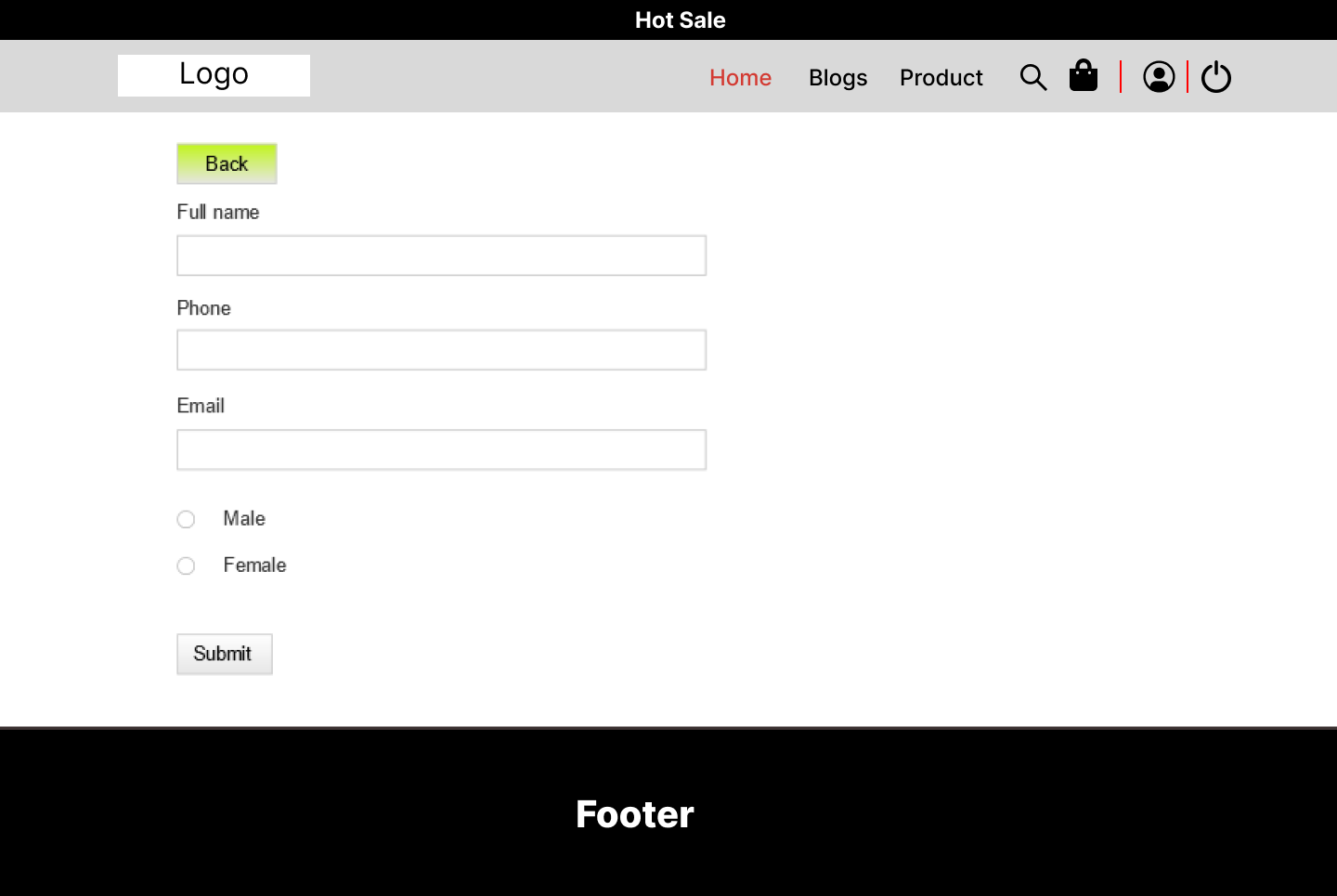
* For users who do not have an account to log in.
* Users will fill in the correct information that the website requires. Especially if the username is the same or the email is already registered on this website, you must use a new one

*c. User profile*

Function trigger : HomeController/profile.jsp

Function description: User

Screen layout :



Function detail :

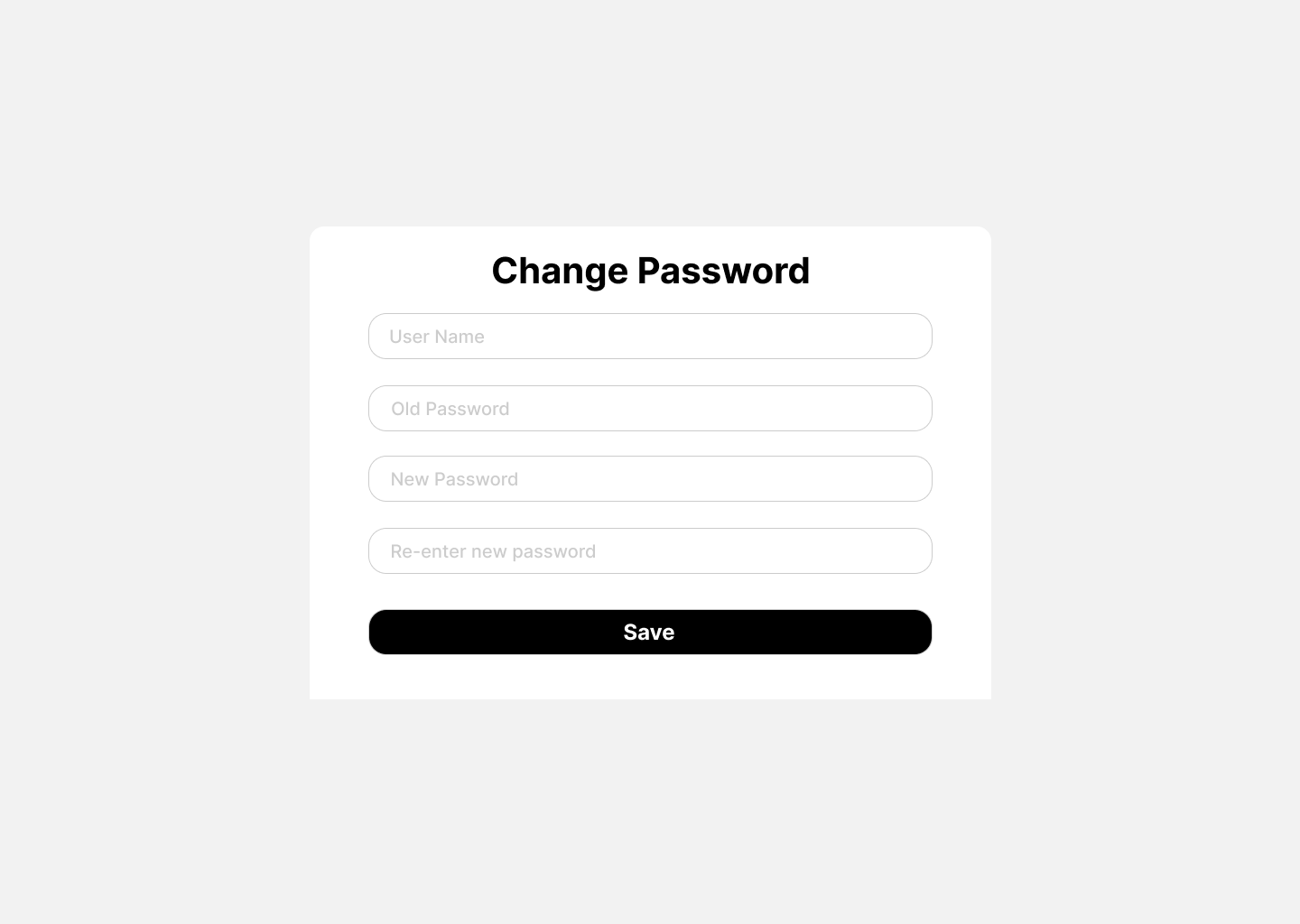
* Show the paginated list of products (include products' id, thumbnail, title, category, list price, sale price, featured, and status information):
* Sortable by list price, sale price
* The page also have the button/link that allows the user to add new product , edit , search .

*d. Change password*

Function trigger : HomeController/changepassword.jsp

Function description: User

Screen layout :



Function detail :

* Show a paginated list of sliders (including id, title, image, backlink, slider's status)
* Admin can add and edit it
* For each slider, user can choose to hide, show

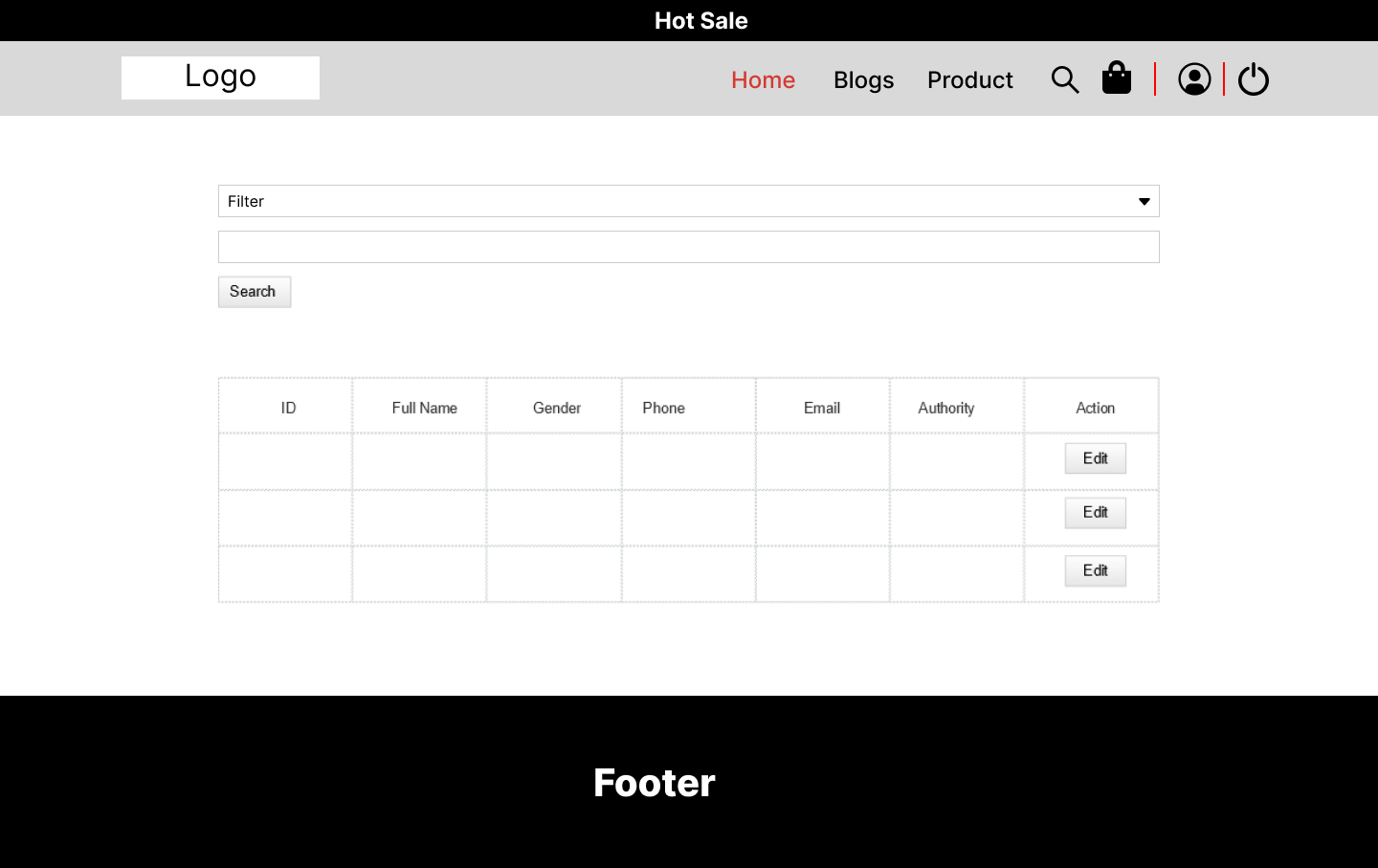
**4. Admin**

*a. Users List*

Function trigger : HomeController/ListUserController

Function description: Admin

Screen layout :



Function detail :

* Show the paginated list of registered users (include users' id, full name, gender, email, mobile, role, status):
* Allow the admin to seach users by full name, email, mobile
* The list is sortable by id, fullname, gender, email, mobile, role, status
* From each user, the admin can choose to view or edit it
* The page also have the button/link that allows the admin to add new user

*b. User detail*

Function trigger : HomeController/ListUserController/ProfileUserController

Function description: Admin

Screen layout :



Function detail :

* Show detailed user information (avatar, full name, gender, email, mobile, role, address, status), from that allow the user to add new, view or edit user information
* The admin can only edit/update the role and status of the user

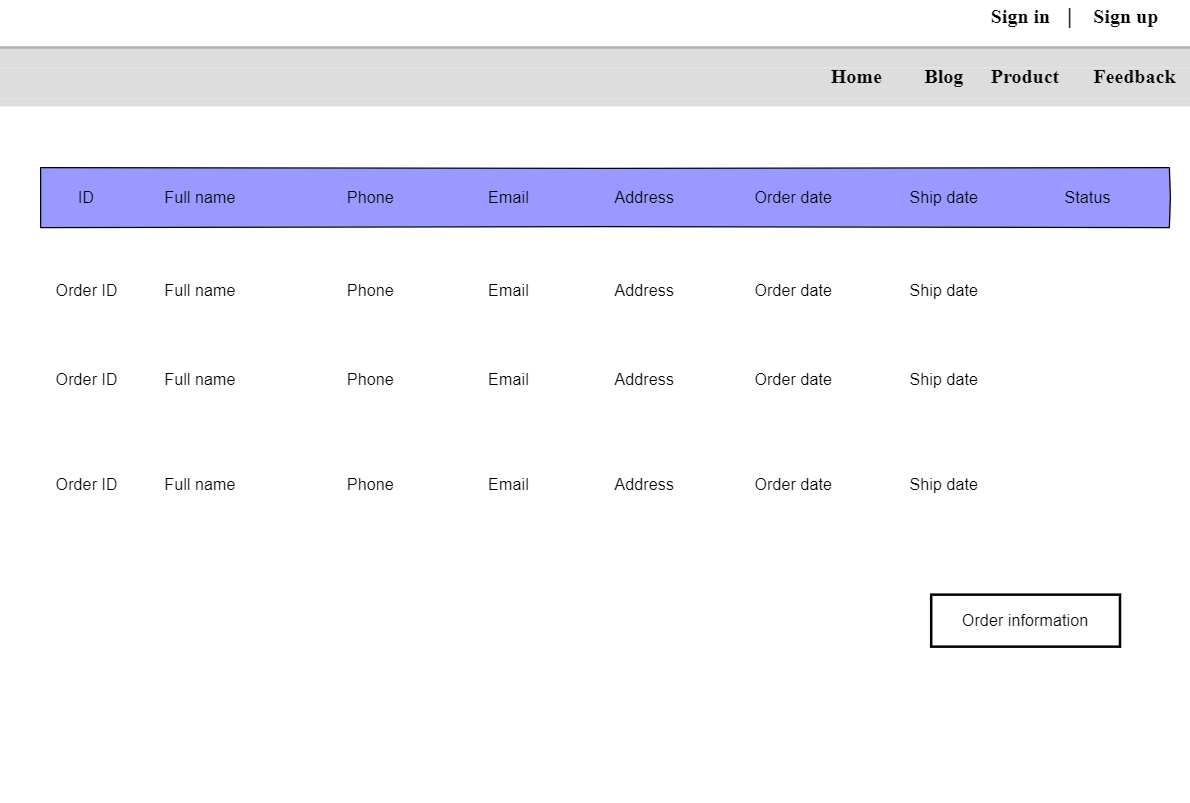
**5. Customer**

*a. My Orders*

Function trigger: Homepage/My order

Function description: User, Admin

Screen layout:



Function detail:

- Show the paginated list of orders with the slider containing search box, product category,..

- Each order will contain order date, product information, cost and status

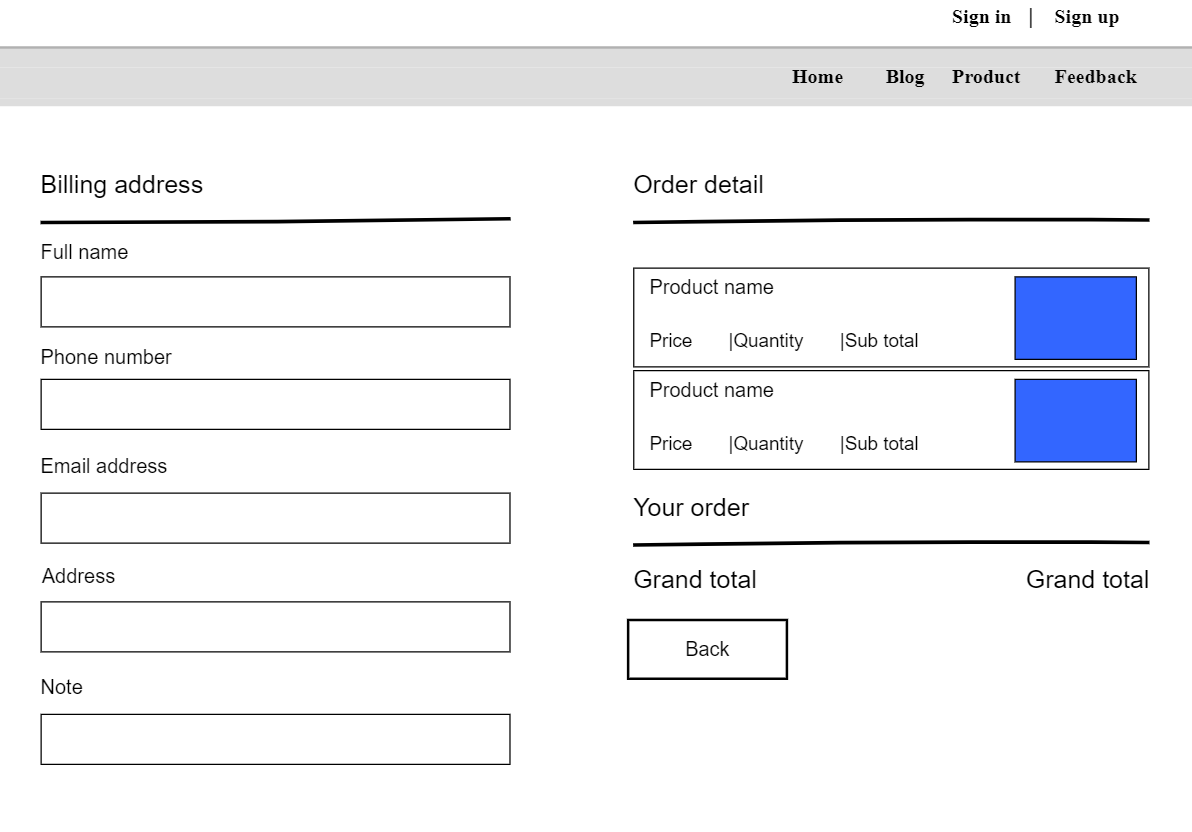
- Click the link at order id to go to Order Information page

*b. Order Information*

Function trigger: Homepage/My order/Order Information

Function description: User, Admin

Screen layout:



Function detail:

- Show the paginated list of order details with the slider containing search box, product category,..

- Show order id, order date, total cost and status

- Show receiver information name, phone and email

- Before submit order user can update order cancer the order