EE4717/IM4717 Web Application Design - Project Report

Design project group number: <F37-DG01>

Team members: <Lin Lixian IM4717, Du Zhanke IM4717>

Project Title: <HOFFICE E-commerce Website>

Summary of Project:

Since the start of COVID, a large number of employees have worked remotely to minimise contact. The popularity of remote work does not die away as we recover from the pandemic but has grown to be a new normal as COVID has posed a profound impact on our daily lives. It urges the demand to transform rooms at home into a working place.

This project aims to create an online shopping website for a design brand HOFFICEwhich designs home office furniture and necessities. HOFFICE's goal is to improve people's remote work experience by providing both comfortable and nicely designed products.

The website allows users to navigate through products across categories with different levels of detail and fulfill a purchase journey with a series of activities including add to cart, make an order and view order history.

1. Application Requirements and Specifications

R1: Browse brand story to know about the brand and company

R2: Sign up or log in to access personal profile

R3: View product list, or details of specific products

R4: Allow search for specific product with product name

R5: Add products to cart, view cart and make orders

R6: Contact the company for potential collaboration or career opportunity

2. Functional Requirements and Specifications

F1: From the navigation bar on the homepage, visitors are able to click *About us* to find how the brand was founded and what the goal is, the story of the founders and any other available information about the brand.

F2: For all users no matter if they are new or old, they can find a register/login button at the top right to jump to another page for register or login. After logging in, they will return to the homepage by default for product navigation. Since then, they can access personal accounts by clicking the *Setting* icon at the top to view/edit profile information, configure account details such as address, payment methods, or ask for support.

F3: Products will be classified into 8 categories based on their utilities. Users can navigate across categories directly from the navigation bar with categories listing on the homepage. Once they select a category of interest, a list of products will be available for them to explore. Main information such as product picture, price and simple description will be displayed on the product listing page. Users can click the product for more details on the product detail page.

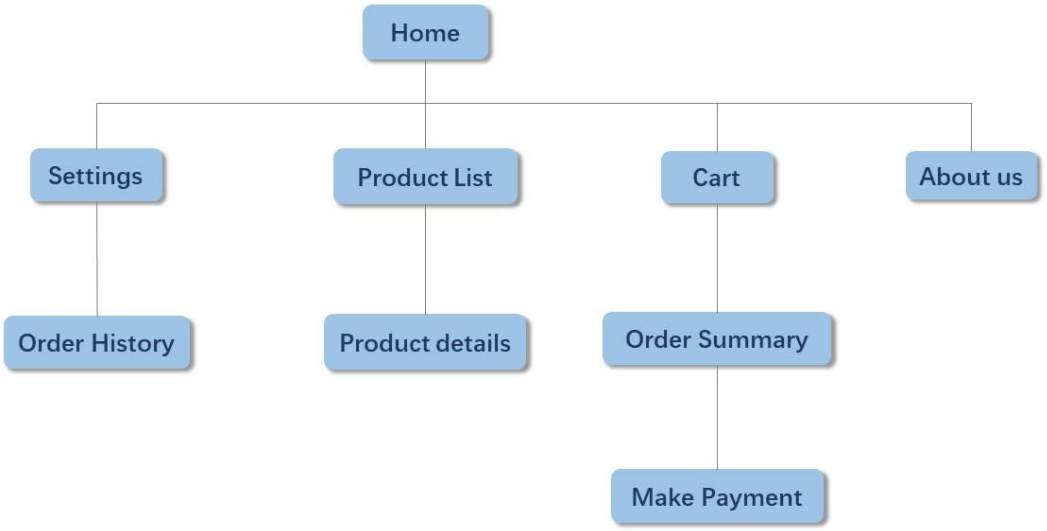
F4: Search icon will always be attached at the top of the pages to enable users to search for the desired products on HOFFICE at any time. Users can use either product names or categories to search for specific products.

F5: If users find any products interesting they can add them to the cart from the product detail page. When they determine their minds, they can make an order from the shopping cart by selecting products to buy and clicking “Check out”.

F6: At the bottom of every page, contact number, email and social network accounts will be available for potential collaboration, feedback and talent acquisition.

3. Design of the web application

Site Map

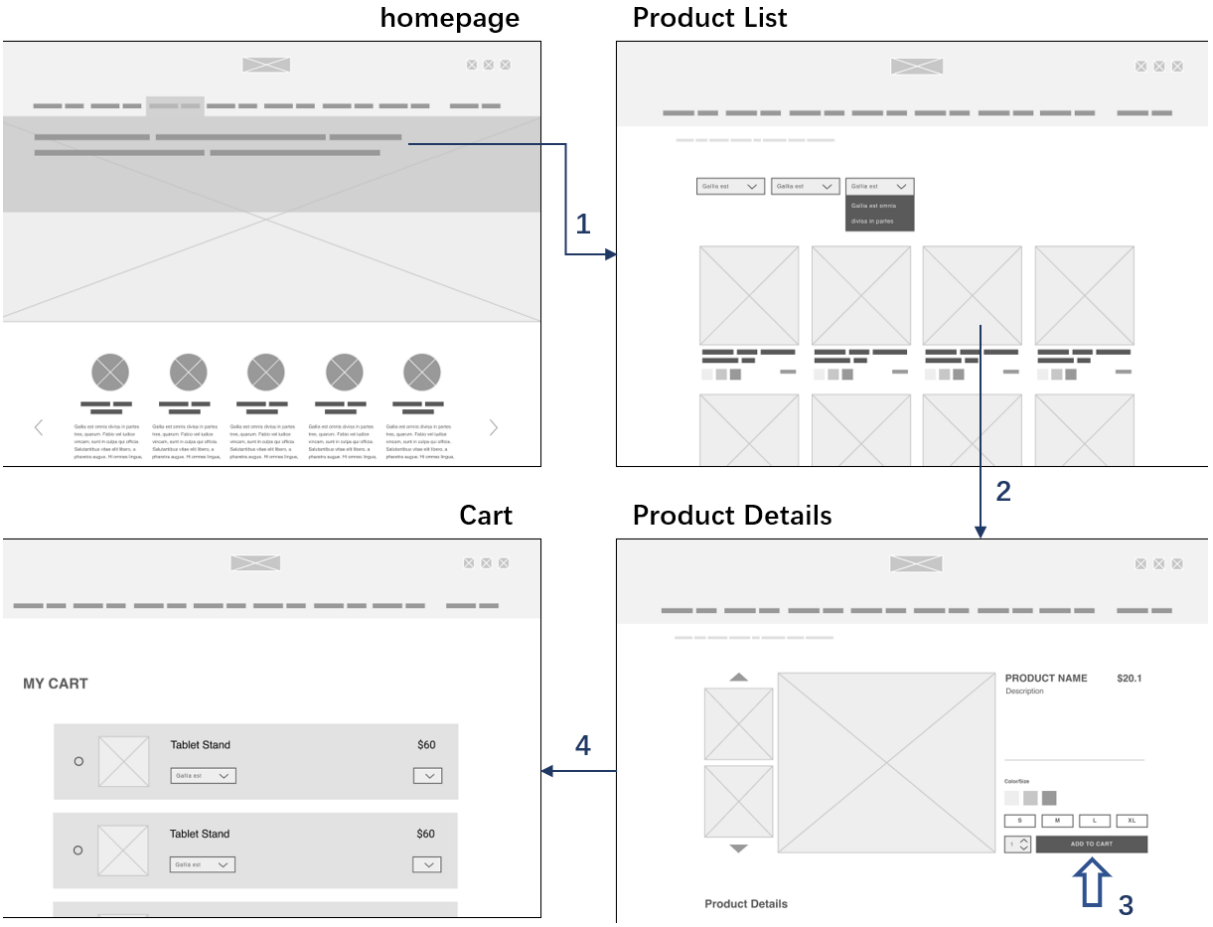


Storyboard

1. **A new user registers an account**

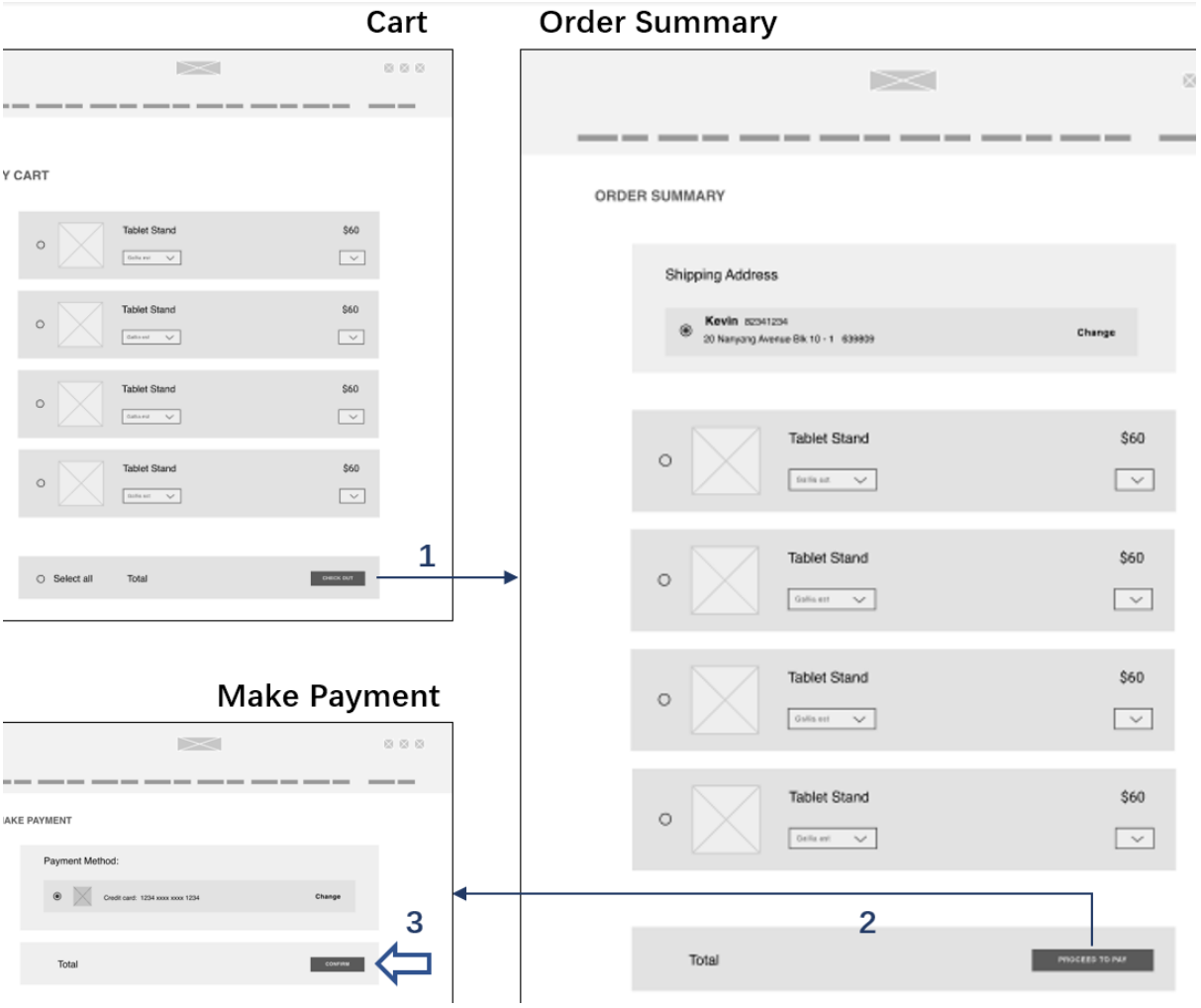
New users can sign up for accounts when they visit the website for the first time. They can sign up in the “Sign in / Sign up” page which can be redirected by clicking the button at the top right corner on the homepage. (step 1) They need to input an email address and a password to create an account. Once they have successfully signed up, they will be automatically signed in and return to the homepage. (step 2)

2. **A member explores in website and adds a work lamp to cart**



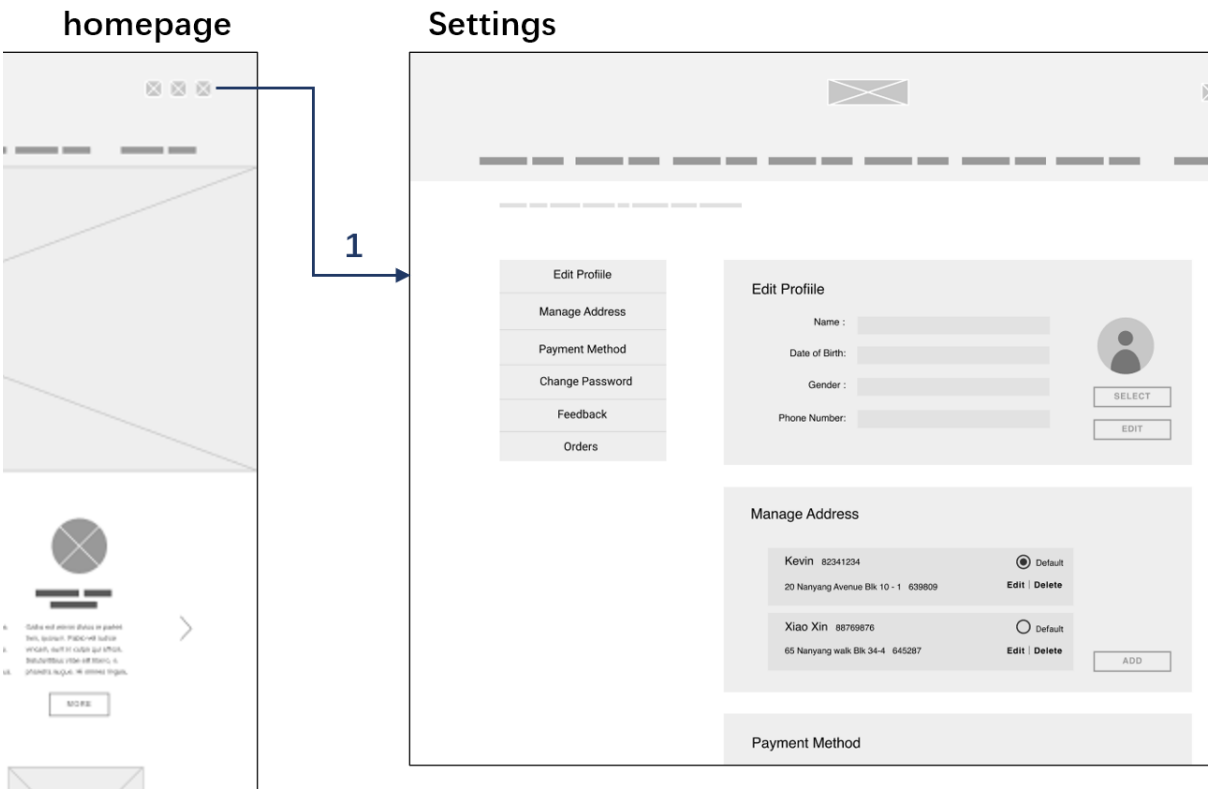
If a user wants to buy a work lamp for his home office, he can make use of our navigation bar attached on the top of every page to find a suitable product quickly. When he hovers to the text link inside the navigation bar, a drop down menu with sub categories will be available. By hovering on “Lighting” and clicking “Lamp” from drop down menu (step 1), he will be linked to a list of work lamps offered on our website (step 2). He could view more details about any lamp by clicking on a product from the list. Once he makes a choice, he can add the lamp to the cart (step 3). After these steps, they can view the products in the cart and proceed to check out. (step 4)

3. A member makes payment for selected items in the shopping cart



Items added into the carts will be saved until a user wants to take further action. Users can buy one or multiple products at a time by selecting from the shopping cart and then clicking on the “check out” button (step 1). Once he clicks on check out, it will be directed to the “Order Summary” page to view and confirm the products as well as the shipping address. Once confirmed, he may click on the “Proceed to Pay" button (step 2) to go to the payment page and choose his prefered payment method to complete ordering. (step 3)

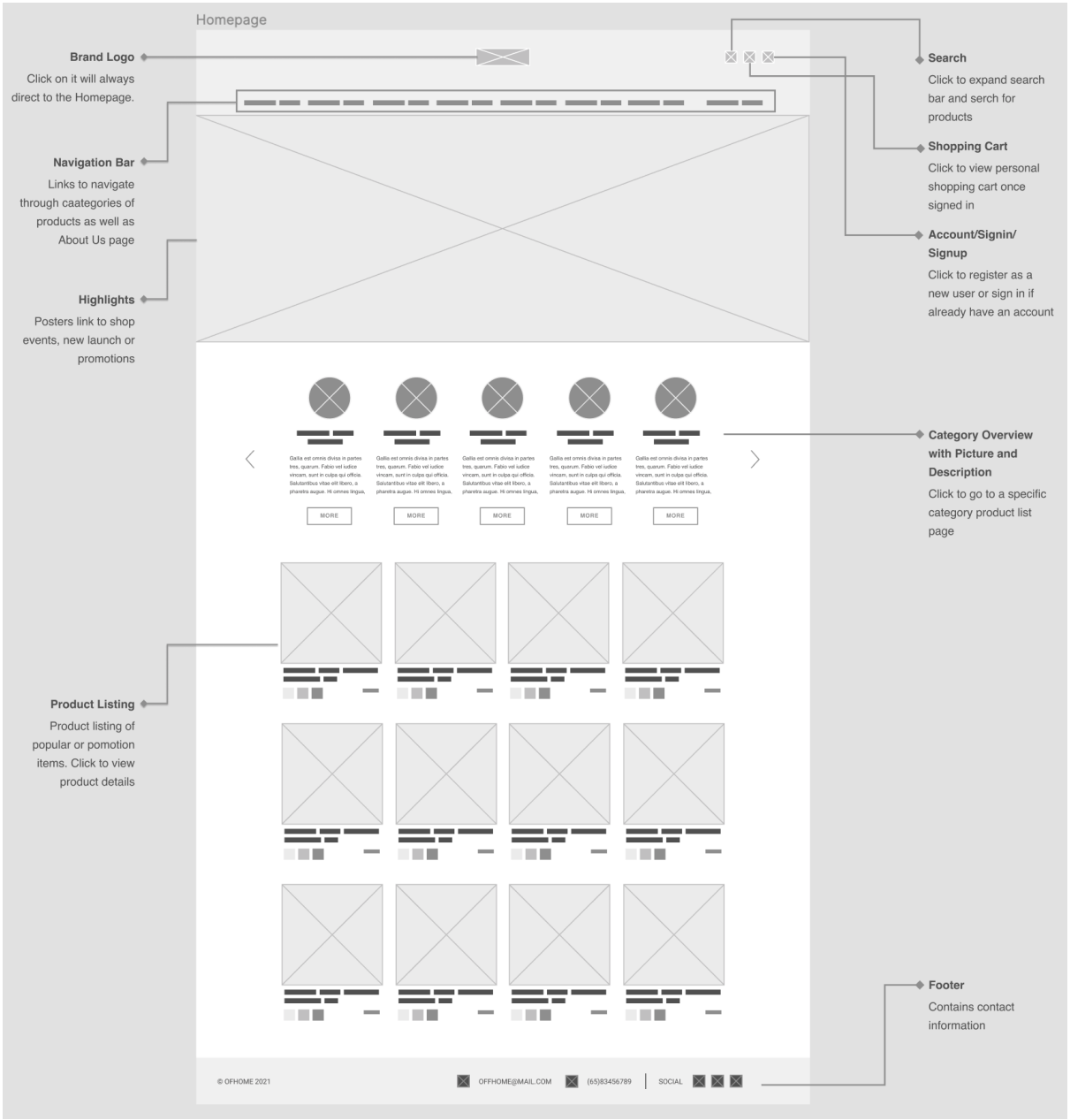
4. **A member update his/her new address**



A user can update his shipping address in the setting page, which can be reached by clicking the button at the top right corner. He can choose to edit the current address, add a new address or simply delete one from the saved address book.

Wireframes

Overview


Homepage
Brand Logo
Click on it will always direct to the Homepage.
Navigation Bar
Links to navigate through caategories of products as well as About Us page
Highlights
Posters link to shop events, new launch or promotions
Product Listing
Product listing of popular or pomotion items. Click to view product details
Search
Click to expand search bar and serch for products
Shopping Cart
Click to view personal shopping cart once signed in
Account/Signin/ Signup
Click to register as a new user or sign in if already have an account
Category Overview with Picture and Description
Click to go to a specific category product list page
Footer
Contains contact information
MORE
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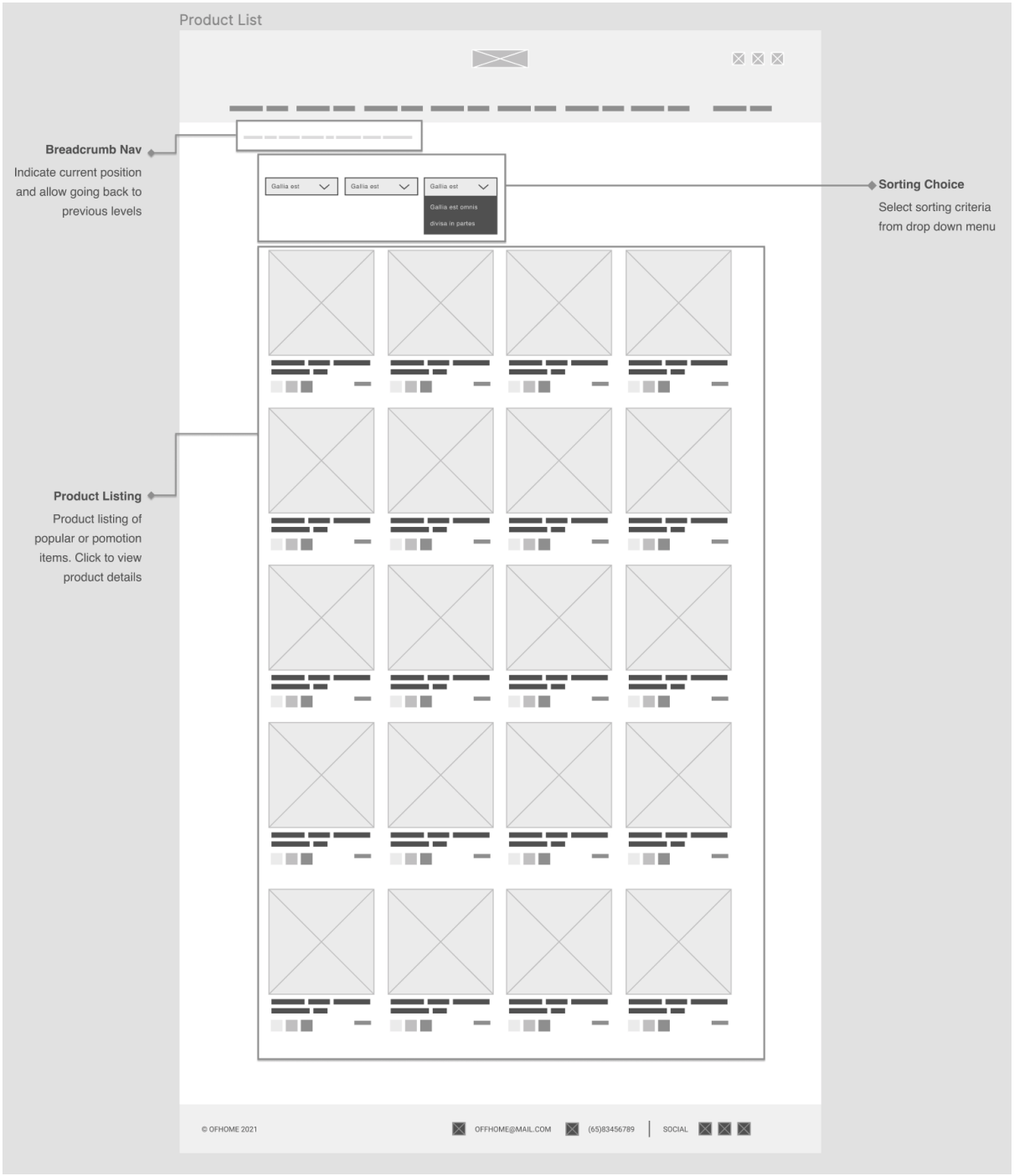
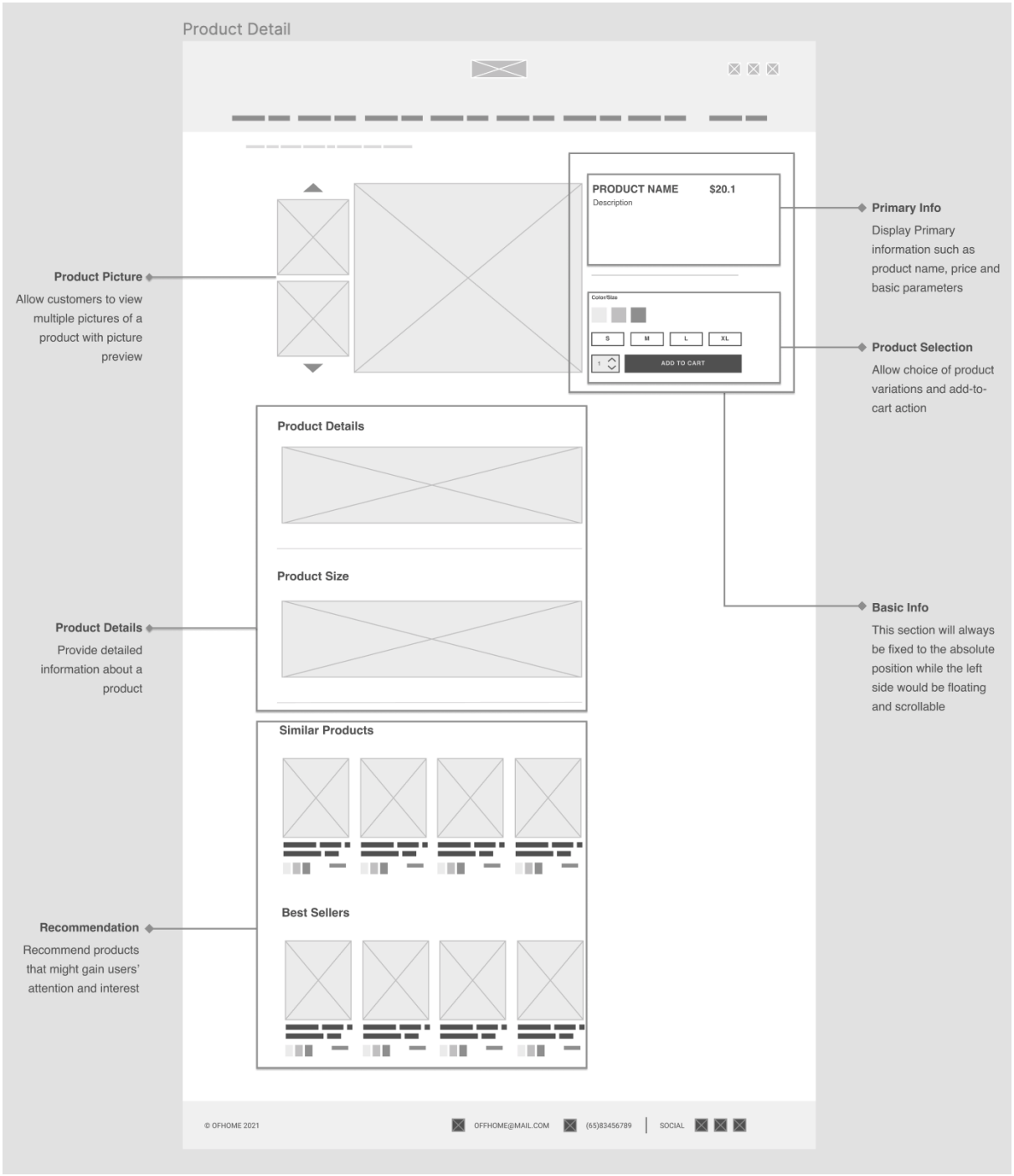
(65)83456789
SOCIAL

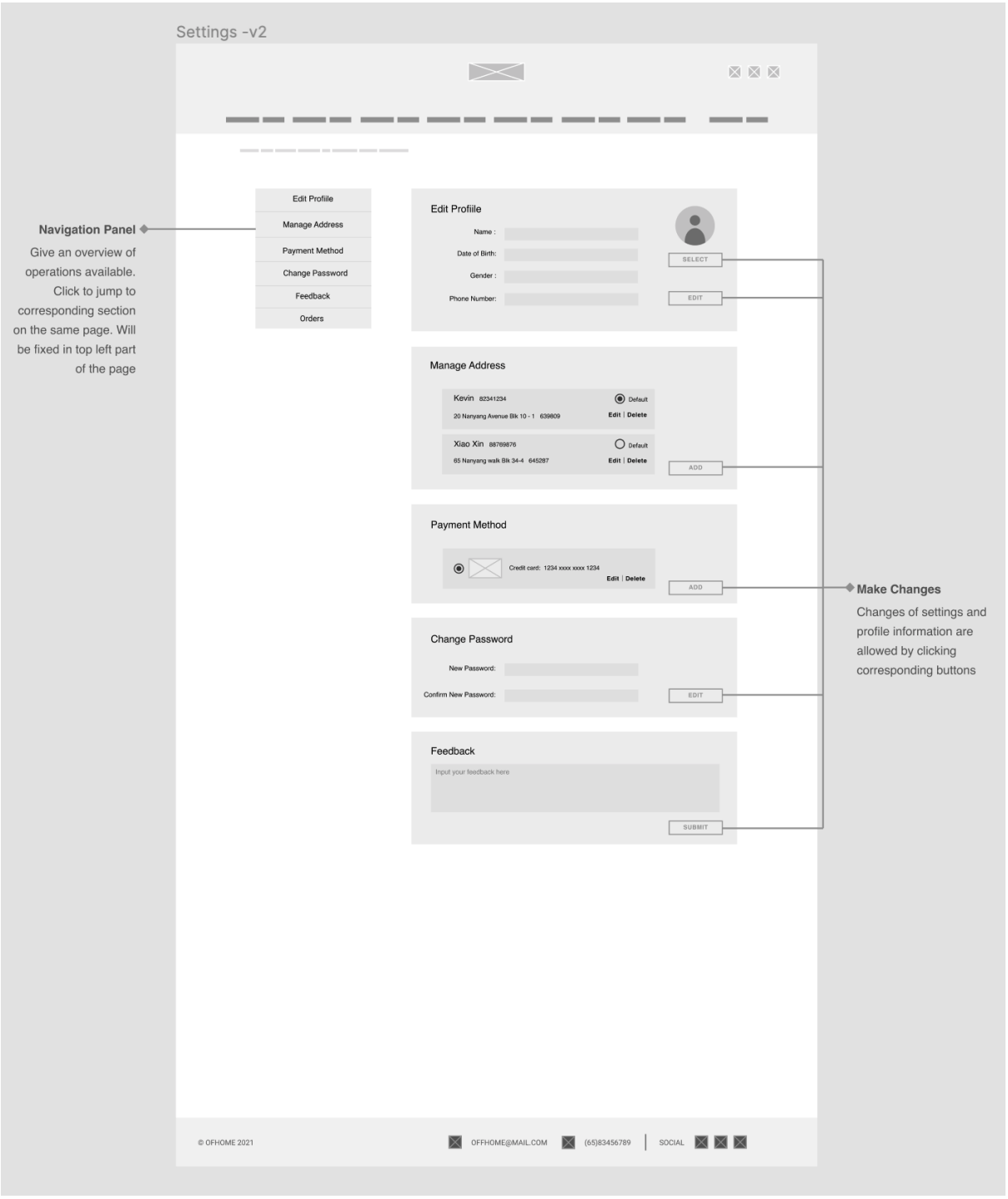
Homepage



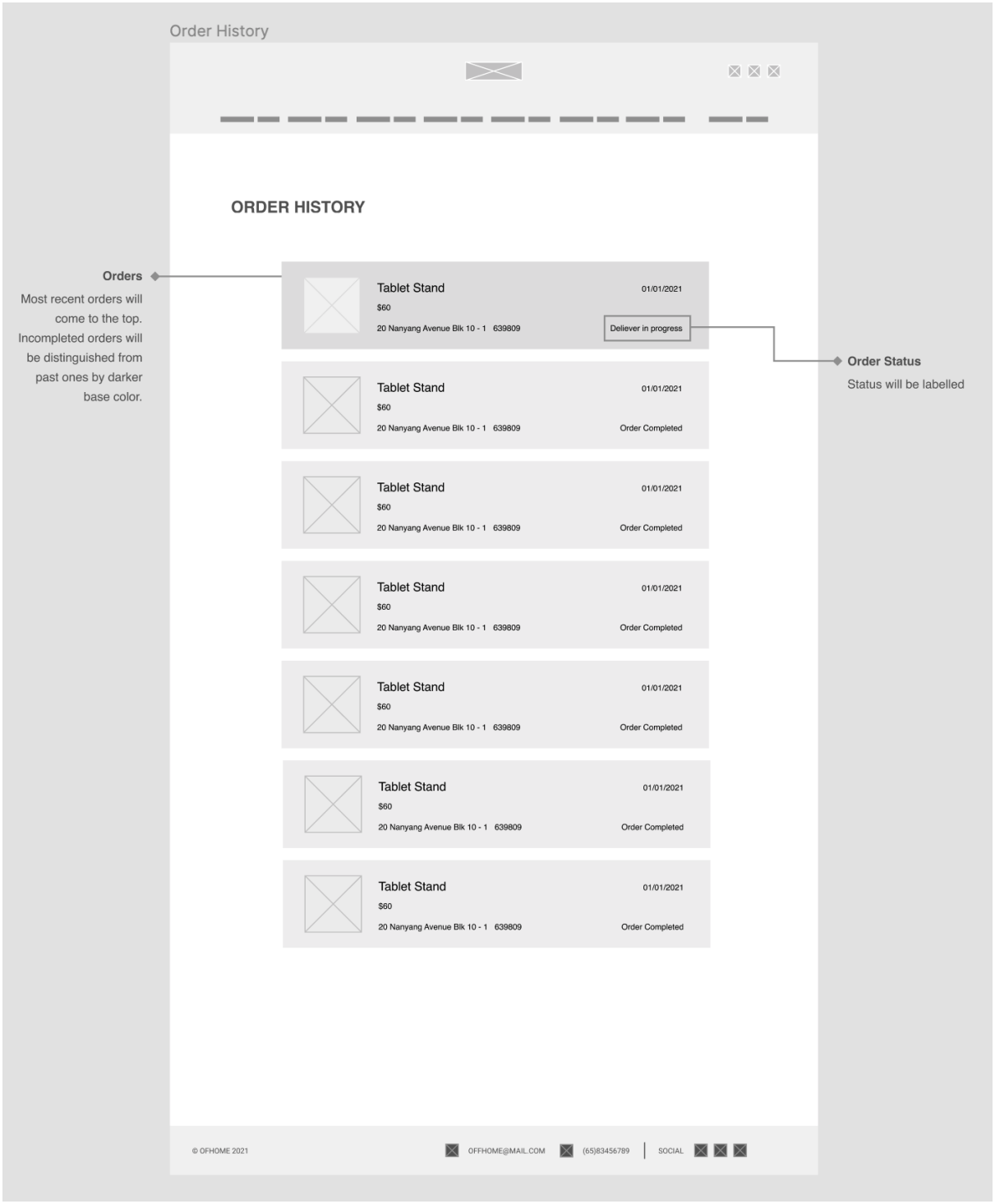
Product Listing Page



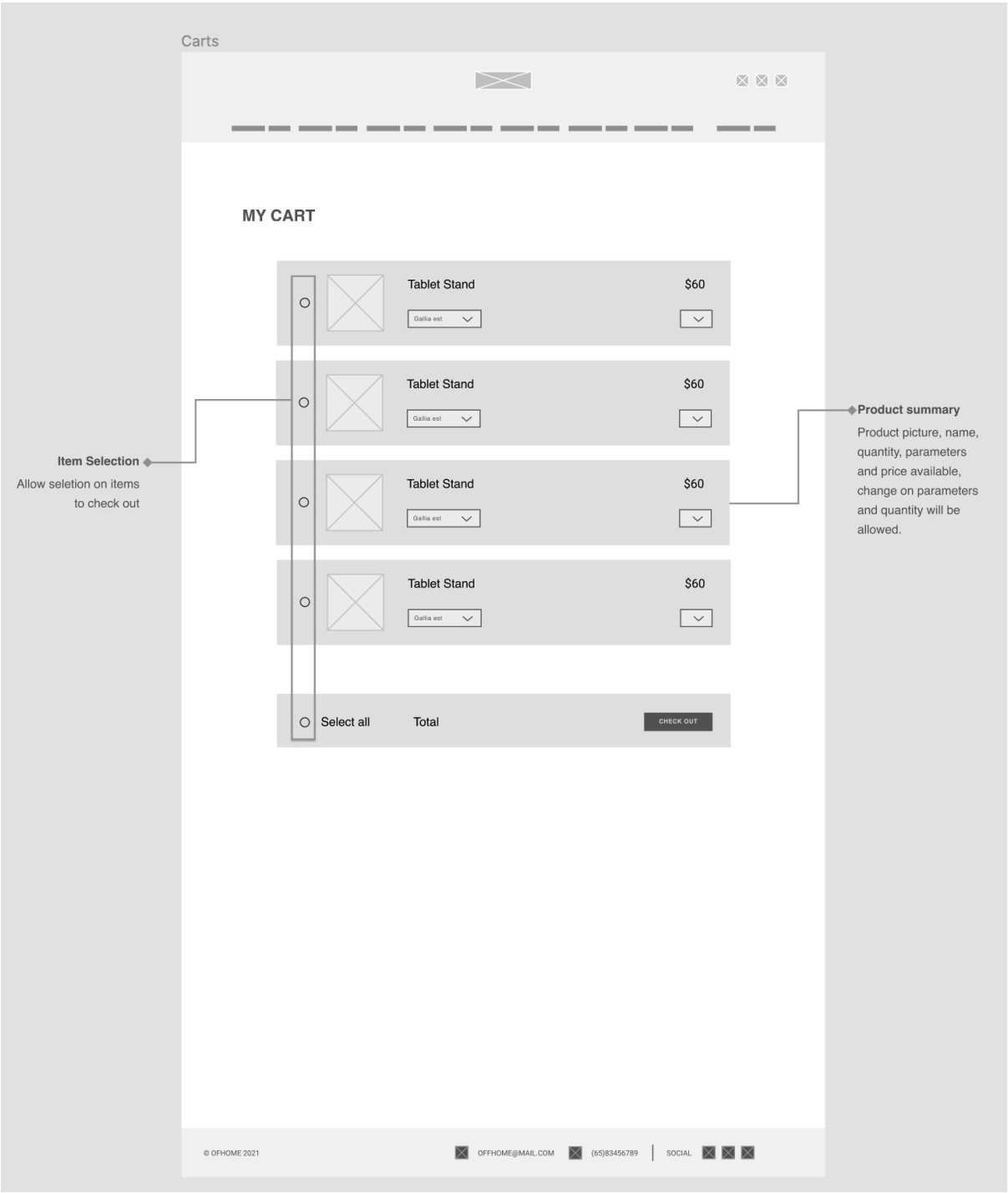
Product Detail Page



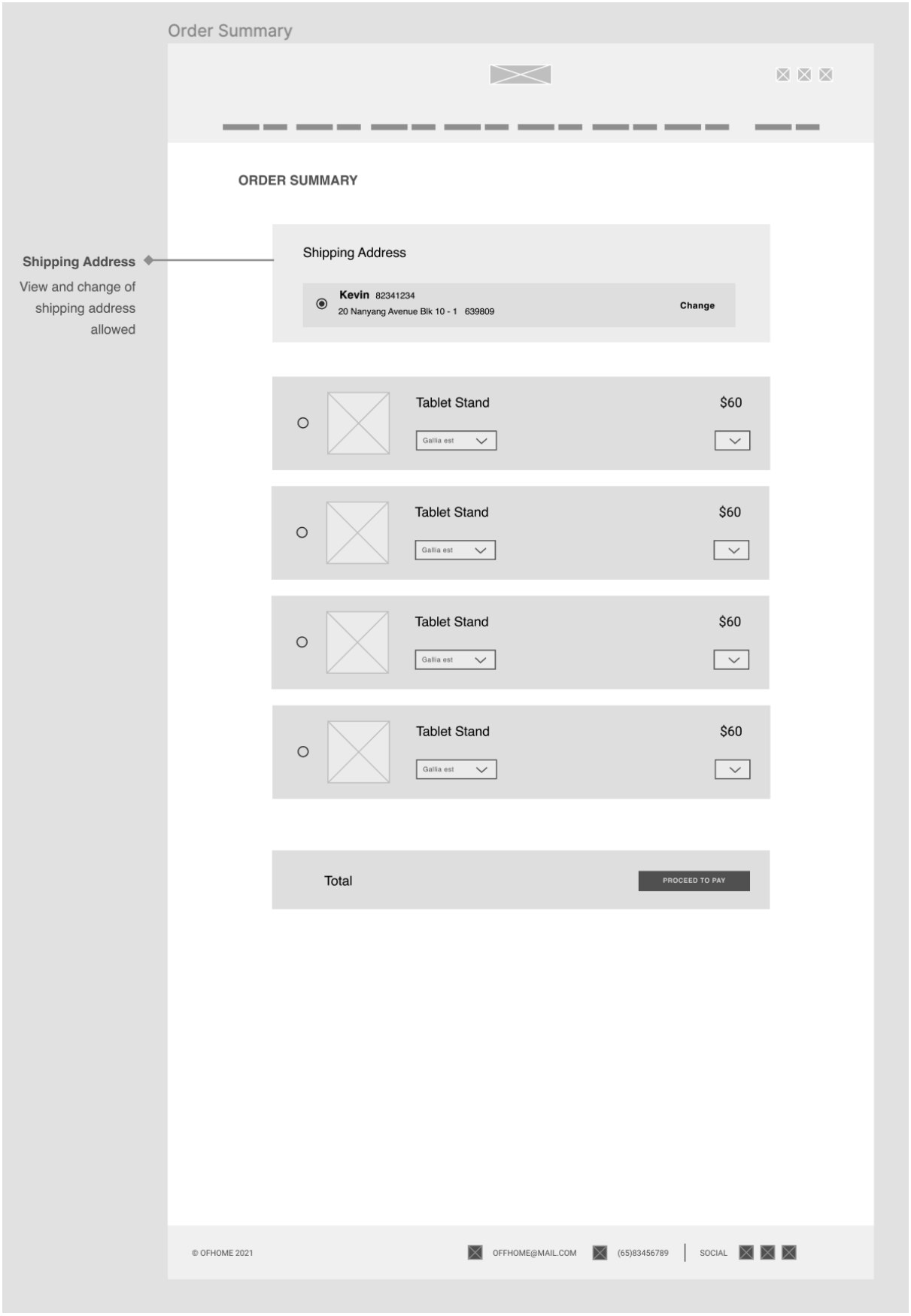
Setting Page



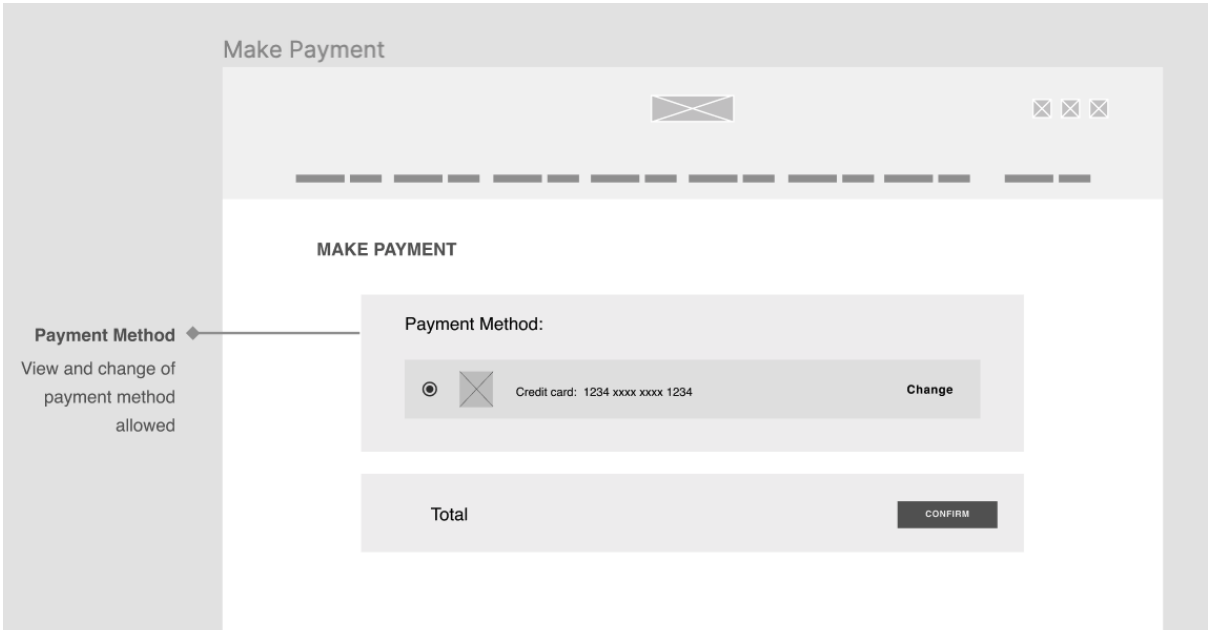
Order History Page



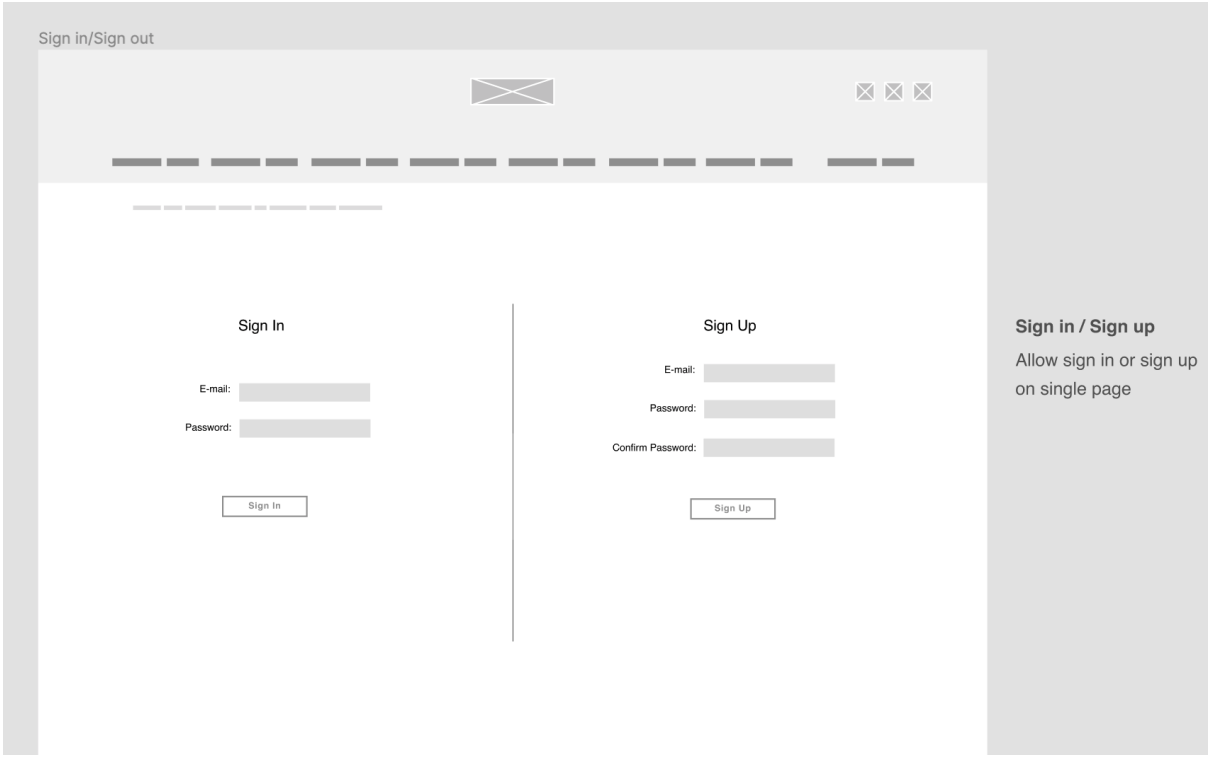
Shopping Cart Page



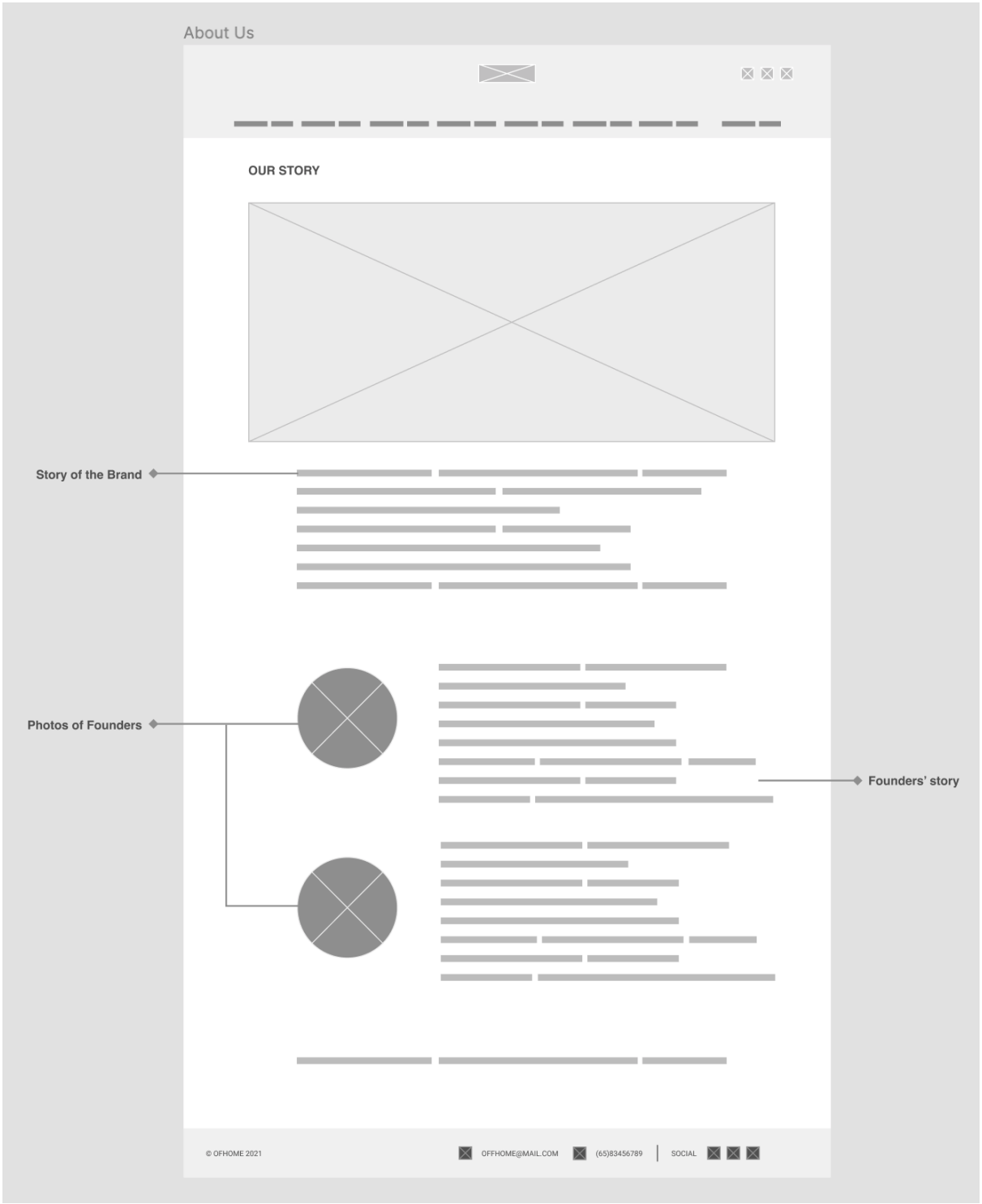
Order Summary Page



Make Payment Page



Sign In / Sign Up Page



About Us Page