**Online Shop MVP Documentation**

**Project Overview**

The Online Shop MVP (Minimum Viable Product) aims to provide users with a streamlined shopping experience where they can browse, interact with, and purchase products. This document outlines the functional requirements for the initial release.

**Functional Requirements**

**1. Home Page**

* **Product Display**:
  + The home page will display a variety of products categorized by product type (e.g., Electronics, Clothing, Books).
  + Each product listing will include an image, title, price, and a brief description.

**2. Product Details Page**

* **Detailed Information**:
  + Users can click on a product to view its detailed information, including a larger image, full description, price, and available stock.
  + The page will include options to add the product to the shopping list.

**3. Shopping List Interaction**

* **Add/Remove Products**:
  + Users can add products to their shopping list from both the home page and product details page.
  + Users can remove products from the shopping list.
* **Overview of Shopping List**:
  + An icon in the top right corner of the screen will display the number of items in the shopping list.
  + Clicking this icon will open an overview of the shopping list, showing all items added, their quantities, and total price.

**4. Shopping List Management**

* **Modify Item Quantity**:
  + Users can increase or decrease the quantity of each item in the shopping list.
* **Remove Items**:
  + Users can remove individual items from the shopping list.
* **Clear Shopping List**:
  + Users can clear the entire shopping list with a single action.

**5. Checkout Process**

* **Proceed to Checkout**:
  + Users can proceed to the checkout page from the shopping list overview.
* **Checkout Page**:
  + The checkout page will display a summary of the items in the shopping list, including their quantities and total price.
  + Users will provide their delivery address and payment details on this page.
* **Payment Confirmation**:
  + After successful payment, users will receive an on-screen confirmation with their order number and delivery details.

**6. Order Confirmation Email**

* **Email Content**:
  + Users will receive an email containing detailed information about the items ordered, the confirmation code, and delivery details.
* **Email Format**:
  + The email will include the order summary, delivery address, estimated delivery date, and customer support contact information.

**Non-Functional Requirements**

**1. User Interface**

* **Responsiveness**:
  + The website will be responsive and accessible on both desktop and mobile devices.
* **Usability**:
  + The interface will be user-friendly and intuitive, ensuring a seamless user experience.

**2. Performance**

* **Load Time**:
  + The home page and product details pages will load within 2 seconds.
* **Scalability**:
  + The system will be scalable to handle up to 10,000 concurrent users.

**3. Security**

* **Data Protection**:
  + User data, including payment information, will be encrypted and securely stored.
* **Secure Transactions**:
  + The checkout process will use HTTPS to ensure secure transactions.

**Use Cases**

**Use Case 1: Browsing Products**

* **Actor**: User
* **Description**: The user opens the home page and browses through different product categories.
* **Preconditions**: The user is on the home page.
* **Postconditions**: The user can see various products categorized by type.

**Use Case 2: Viewing Product Details**

* **Actor**: User
* **Description**: The user clicks on a product to view detailed information about it.
* **Preconditions**: The user is on the home page.
* **Postconditions**: The user views detailed information about the selected product.

**Use Case 3: Managing Shopping List**

* **Actor**: User
* **Description**: The user adds or removes products from the shopping list, adjusts quantities, and views the shopping list overview.
* **Preconditions**: The user is on the home page or product details page.
* **Postconditions**: The shopping list is updated accordingly.

**Use Case 4: Checkout and Payment**

* **Actor**: User
* **Description**: The user proceeds to the checkout page, enters delivery and payment details, and confirms the order.
* **Preconditions**: The user has items in the shopping list.
* **Postconditions**: The user receives an order confirmation on the screen and via email.

**Conclusion**

This documentation provides a comprehensive overview of the functional and non-functional requirements for the Online Shop MVP. The outlined use cases ensure that users can seamlessly browse, interact with, and purchase products, providing a solid foundation for future enhancements.