**Vision Document for “E-Shopper”**

**Team members:**

*Hoang Long Nguyen - 615661*

*Xuan Giap Nguyen - 615643*

*Thi Thu Hang Nguyen - 615716*

*Hira Sadaf - 615700*

**1. Introduction**

Our project focuses on the development of an online shopping/vending system catering to the core functionalities required by online merchants. The system aims to provide a comprehensive platform where buyers can explore products and sellers can effectively manage their operations. With the rapid growth of the online marketplace, it has become crucial for merchants to have a reliable and user-friendly platform to serve their customers.

The core focus of our solution is on simplifying the management process for sellers and enhancing the browsing experience for buyers. For sellers, the system will offer intuitive tools to easily add, update and delete items. This streamlined approach allows sellers to efficiently showcase their offerings, ensuring accurate and up-to-date product information.

On the buyer's side, the system will provide a seamless and user-friendly interface for browsing and selecting products. Buyers will be able to explore various categories, search for specific items, and purchase products with ease. By optimizing the browsing experience, we aim to enhance customer satisfaction and facilitate smooth purchasing journeys.

**2. Positioning**

**2.1 Problem Statement**

*[Provide a statement summarizing the problem being solved by this project. The following format may be*

*used:]*

|  |  |
| --- | --- |
| The problem of | *Managing product catalog and listings* |
| Affects | *Sellers, Buyers* |
| the impact of which is | *Inaccurate product information, limited product visibility, decreased sales* |
| a successful solution would be | *Develop a comprehensive product management system that allows merchants to easily create and update product listings, ensure accurate product information, and optimize product visibility on the platform.* |

**2.2 Product Position Statement**

*[Provide an overall statement summarizing, at the highest level, the unique position the product intends to*

*fill in the marketplace. The following format may be used:]*

|  |  |
| --- | --- |
| For | *sellers and buyers seeking a seamless e-commerce experience* |
| Who | *in need of a comprehensive and user-friendly online shopping/vending system* |
| The (product name) | *is an online marketplace platform* |
| That | *offers intuitive management tools, enhanced buyer-seller interactions, and personalized shopping experiences* |
| Unlike | *traditional e-commerce platforms or limited online vending solutions* |
| Our product | *stands out with its robust features, streamlined functionality, and focus on core e-commerce functionalities.* |

*[A product position statement communicates the intent of the application and the importance of the project*

*to all concerned personnel.]*

**3. Stakeholder Descriptions**

**3.1 Stakeholder Summary**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | | Description | Responsibilities |
| User | Anonymous user | Anyone can view items | Anonymous users are responsible for signing up to login, logout, edit profile |
| Buyer | Buyers can search items and buy them | Buyers are responsible for searching and purchasing items |
| Seller | Sellers can sell their items | Sellers are responsible for adding, updating, deleting items |
|  | |  |  |
| Developers | | Developers develop system on the basic of given document | Developers are responsible for developing system features, fixing bug, and maintaining the system' availability |
| Testers | | Testers use jUnit tool to test system or integration test | Testers are responsible for integration testing |

**3.2 User Environment**

Buyers and Sellers work on PCs in their homes or offices, which will have Internet connectivity.

**4. Product Overview**

**4.1 Product Perspective**

The simple e-commerce platform we are developing is an independent and self-contained product designed to provide a seamless online shopping experience for sellers and buyers. It operates as a standalone system, handling the core functionalities of product management, buyer-seller interactions, and order processing.

The simple e-commerce platform does not rely on external systems or components to function. It encompasses all the necessary features and capabilities required for sellers to list and manage their products, and for buyers to browse, search, and make purchases.

The product interacts directly with sellers and buyers through a user-friendly interface, allowing them to perform essential tasks such as creating product listings, managing inventory, adding items to a cart, and completing transactions. It does not rely on or integrate with other external systems or applications, keeping the focus on providing a streamlined and efficient e-commerce solution.

**4.2 Assumptions and Dependencies**

- Business Requirements: The specific requirements of the online merchant, such as their target market, product offerings, and business strategy, can impact the features of the e-commerce platform. Customization and scalability options may be necessary to align the platform with the unique needs and goals of the merchant.

-Integration with Third-Party Services: The need for integration with external services, such as payment gateways, shipping providers, or analytics platforms, can affect the features of the e-commerce platform. Seamless integration with these services may be required to enhance the overall functionality and user experience of the platform.

**4.3 Needs and Features**

*[Avoid design. Keep feature descriptions at a general level. Focus on capabilities needed and why (not*

*how) they should be implemented.]*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Problem | Need | Priority | Features | Planned Release |
| Anonymous user | | | | | |
| 1 | signup | user info, avatar |  | fill all info |  |
| 2 | login | username, password |  | password length is 6 |  |
| 3 | logout |  |  | login status |  |
| 4 | profile | user info |  |  |  |
| Buyer | | | | | |
| 5 | search | by address, category, status, time |  | display by type of search |  |
| 6 | view a list of items | list all items, purchased items |  | can view items of owner |  |
| 7 | view item | description, date, status, price, seller, category |  | view detail of item |  |
| 8 | purchase | purchase items of other users |  | change status after buying |  |
| Seller | | | | | |
| 9 | view a list of items | list all items |  | view all items |  |
| 10 | view item | description, date, status, price, seller |  | detail of item |  |
| 11 | add a new item | description, price, category |  | price, category, description |  |
| 12 | update item | description, price, category, status |  | update price, description, category |  |
| 13 | delete item | delete item |  | delete own item |  |

**4.4 Alternatives and Competition**

**5. Other Product Requirements**