

**Requirement & Design Specification**

**Goods Exchange Application for students at FU**

1. **Introduction**

**1.1Purpose**

The purpose of this document is to provide a detailed description of the functionalities and features of the Goods Exchange Application for students at FU. This application is designed to facilitate the exchange and management of products and tools among students, enabling efficient transactions and interactions. The system caters to various user roles including guests, buyers, sellers, administrators, and moderators, each with specific access and functionalities to ensure a seamless and secure user experience.

**1.2 Document Conventions**

This document describes the online purchasing management system, user classification and main functions of each type.

**Visitors**: limited access, only view product catalog.

**Buyers**: search, filter products, purchase, interact with sellers (comments, reviews).

**Seller**: post products, manage posts, process orders, customer care.

**Administrator**: manage users, product categories, policies, reports.

**Moderator**: censors products, handles violations.

In addition, the document also presents the conventions used in the document (typography, lists, references, tables, languages, typography) to ensure consistency and ease of understanding.

**1.3 Project Scope and Product Features**

The web application is designed specifically to facilitate the exchange and trading of products among FPTU students. Its key features include:

* **Product Purchase and Chat**: Buyers can directly communicate with sellers through an integrated chat feature on the website. This allows for seamless discussions and negotiations. Once an agreement is reached, an invoice is generated directly on the platform to confirm the transaction.
* **Product Listing for Sale**: Users can easily list their products for sale. Each listing undergoes review and moderation by a dedicated team to ensure quality and compliance before it becomes publicly visible.
* **Manage Listed Products**: Sellers can track the approval status of their listed products, helping them manage their sales effectively and stay updated on their product’s status.
* **Purchase Additional Listing Slots**: To enhance product visibility and increase sales opportunities, sellers can buy additional listing slots. This feature helps maximize exposure and promotes better sales prospects.
* **User Reviews**: The platform allows buyers to rate sellers and vice versa. This rating system builds a transparent and trustworthy trading community, where users can make informed decisions based on the reviews of others.
* **Report Issues**: If users encounter any problems with listed products or suspect any rule violations, they can report the products. The moderation team will review and address these reports promptly to maintain the platform's integrity and reliability

1. **Overall Description**

#### 2.1 Product Perspective

The Goods Exchange Application for students at FU is a web and mobile-based platform designed to facilitate the buying, selling, and exchanging of products and tools among students. This application serves as a virtual marketplace tailored specifically for the university community, providing a secure and user-friendly environment for transactions.

**2.2 User Classes and Characteristics**

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| Guest | limited access to system features (mobile and web app). |
| Buyer | Person who uses the application to search, view information and buy products and tools from sellers. They can search for products by category or keyword, filter products. In addition, buyers can interact with the product by commenting, contacting the seller, rating and responding to transactions. |
| Seller | Is a person who uses the application to sell their products and goods. They can post product information, manage posts. Additionally, they can interact with customers, view their transaction history and status. |
| Administrator | A privileged user who can manage the entire system. |
| Moderator | Is the person who has the right to review the product, review violation reports from users, after successfully reviewing the violator will be banned. |