

Class: 21CLC10 – Introduction to Software Engineering

Group ID: 04

Group Name: Code999+Bugs

Project Name: 2HandBook

## **PROJECT PROPOSAL**

### **1. Introduction**

On average, each semester a student will have to study around 7-8 subjects, equivalent to 7-8 textbooks. Among them are many textbooks used only once. “2HandBook” serves as a marketplace for students to sell old materials and learning tools they no longer need to other students. This helps us make the most of available resources. The products can be old books, old documents, old calculators, etc. In addition, this website also welcomes other sellers like bookstores, stationery stores, and printing shops.

### **2. Target users and environments**

- Target users: Students, bookstores, stationery stores, and printing shops.
- Environments:
  - Devices: PC.
  - Platform: Website
  - Recommended versions for popular web browsers:
    - Chrome 26 and newer versions
    - Edge 12 and newer versions
    - Opera 15 and newer versions
    - Safari 6.1 and newer versions
    - Firefox 21 and newer versions

### **3. Key features**

- All actors: Log in, sign up, log out, change password, remember password, edit profile information.

- Admin:
  - Approve accounts that request to be sellers, new products for sale, requests to change information of existing products, requests from sellers for their products to be prioritized showing on home page or search engine.
  - Delete or suspend accounts, products, comments that violate the rules of the website.
    - Interface includes reports from users, its status (has been dealt with, not yet); suggestions to terminate sellers with too low a rating.
  - Send notifications for user accounts through notification interface, email.
  - Pick a handful of popular products to put in the Trending section on the main webpage. (Optional)
  - Panel that includes all necessary information about all seller accounts and buyer accounts.
  - Add perks for regular users (Optional):
    - Account type: Silver, Gold, Diamond with different perks based on level.
    - Add specific perks to an account.
- Seller:
  - [CRUD] Post, view, update and delete their product information.
  - Manage list of orders.
  - View list of followers.
  - Respond to customer feedback.
  - Chat box with customers to: answer questions, deal with complaints, provide information on promotions, ... (Optional)

- View statistical information:
  - Total number of purchased products
  - Quantity of each product in stock
  - Number of times each product has been viewed and purchased
  - Number of customer ratings and reviews
  - Manage all of customer ratings and reviews
- [CRUD] Create, view, update and delete discount vouchers for all products or some certain products on special occasions. (Optional)
- Buyer:
  - Search products.
  - Filter products by product category, posting time, popularity (number of sales, number of comments, rating, user reviews)
  - Sort in descending, ascending order by price
  - Some functions regarding to buying products:
    - Add to cart
    - Edit purchase quantity, select delivery method (onsite, delivery),
    - Apply vouchers
    - Buy products, cancel orders, view current orders
  - Add/Remove products as favorites (Optional)
  - Follow shops (have announcements to shops) (Optional)
  - Give comments, rating for products or shops
    - Like, reply comment
  - Report products, violation of standards (have announcements to admin)
  - Watch purchase history, the total expense of months or years (Optional)