



CAPSTONE PROJECT REPORT

Report 1 - Project Introduction

–Da Nang, September 2022–

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I. Record of Changes

| Date | A*M, D | In charge | Change Description |
|------------|--------|-----------|--------------------|
| 08/09/2022 | A* | DangHH | Create new |
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*A - Added M - Modified D - Deleted

II. Project Introduction

1. Overview

1.1. Project Information

- Project name: Secondhand Market
- Project code: SCH
- Group name: 2Hmarket Team
- Software type: Web Application, Mobile App

1.2. Project team

1.2.1 Supervisor

| Full Name | Role | Email | Phone |
|---------------|----------|--------------------|------------|
| Võ Đức Hoàng | Lecturer | hoangvd7@fe.edu.vn | 0906477283 |
| Lý Quỳnh Trân | Lecturer | tranlq@fe.edu.vn | 0934915655 |

Table 1: Supervisor

1.2.3 Team Members

| Full Name | Role | Student Code | E-mail | Phone |
|------------------------|--------|--------------|-----------------------------|------------|
| Diệp Thế Sang | Leader | DE140025 | sangdtde140025@fpt.edu.vn | 0345697833 |
| Nguyễn Phúc Ngọc Thành | Member | DE140120 | thanhnpnde140120@fpt.edu.vn | 0888671278 |
| Hoàng Hải Đăng | Member | DE140112 | danghhde140112@fpt.edu.vn | 0393366523 |
| Trần Thành Long | Member | DE140145 | longttde140145@fpt.edu.vn | 0937834446 |

Table 2: Team Members

2. Product Background

With the current situation of life being so chaotic, shopping is an indispensable thing in human life, buying and selling a lot will create a surplus of many things that we do not use. It is not difficult for us to come across second hand stalls on the street or in the market, but many inadequacies are happening.

For sellers: difficult to find premises for sale, expensive to rent.

For buyers: it takes a lot of time to find the items they need to buy, limited the products they need to search for, it is difficult for shoppers to find the best quality products at the most reasonable prices.

From those inadequacies, Second-hand market was born with the mission to solve the above difficulties of second-hand buyers and sellers. Second-hand Market is a system that allows buyers and sellers to connect to secure transactions. The system is a place specializing in trading, buying and selling old and used products, with a variety of categories from electronic devices such as laptops, phones ... to home appliances such as televisions, fans, rice cookers...etc. Anyone can easily buy, search for the product they want as a buyer or can post to sell products as a seller. The system will provide Vietnamese users with a simple and easy-to-use platform.

3. Existing Systems

3.1 ChoTot

- Chotot is a leading buying and selling website in Vietnam, this website allows users to post to sell second-hand goods, or can create new orders, allowing users to directly exchange prices, locations. transaction point

- Link: <https://www.chotot.com/>

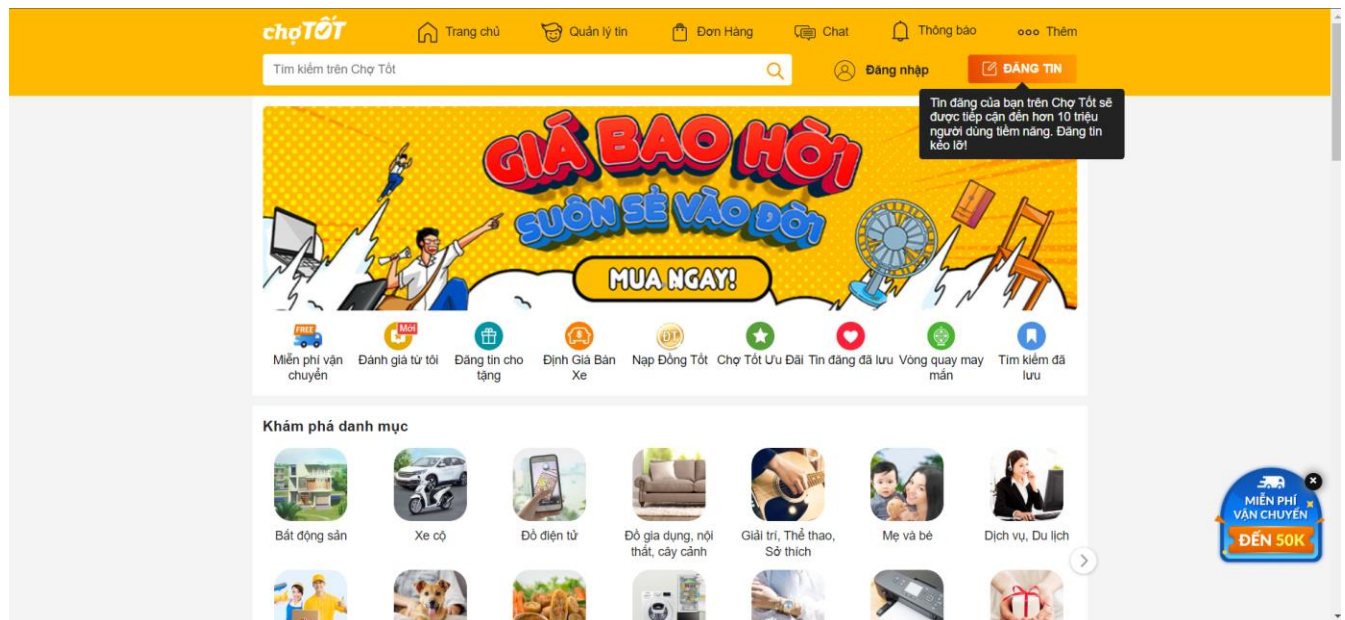


Figure 1: ChoTot System

- **System actor:**
 - + Admin system
 - + User
- **Advantage:**
 - + Friendly interface, beautiful, full display of information related to the item for sale
 - + Variety of goods, a large number of items for sale at various prices
 - + There is a chat function so that users can communicate with each other more carefully, supporting the post to be put on the front page if the user needs it.
 - + The approved items posted on Chotot are all reputable and highly tradable items
- **Disadvantage:**
 - + Selling products on Chotot is not really easy to use, posting on sales is difficult to show up on the front page without paying a fee.
 - + Payment on chotot also has many disadvantages

3.2 Chodocu.com

- Chodocu.com is a reliable address for you to choose from used and unused goods with good quality. A useful information site for people with limited financial resources. More simply, Chodocu.com helps you find unique items, strange items, and antiques at the best prices.
- **Link:** <https://chodocu.com/>

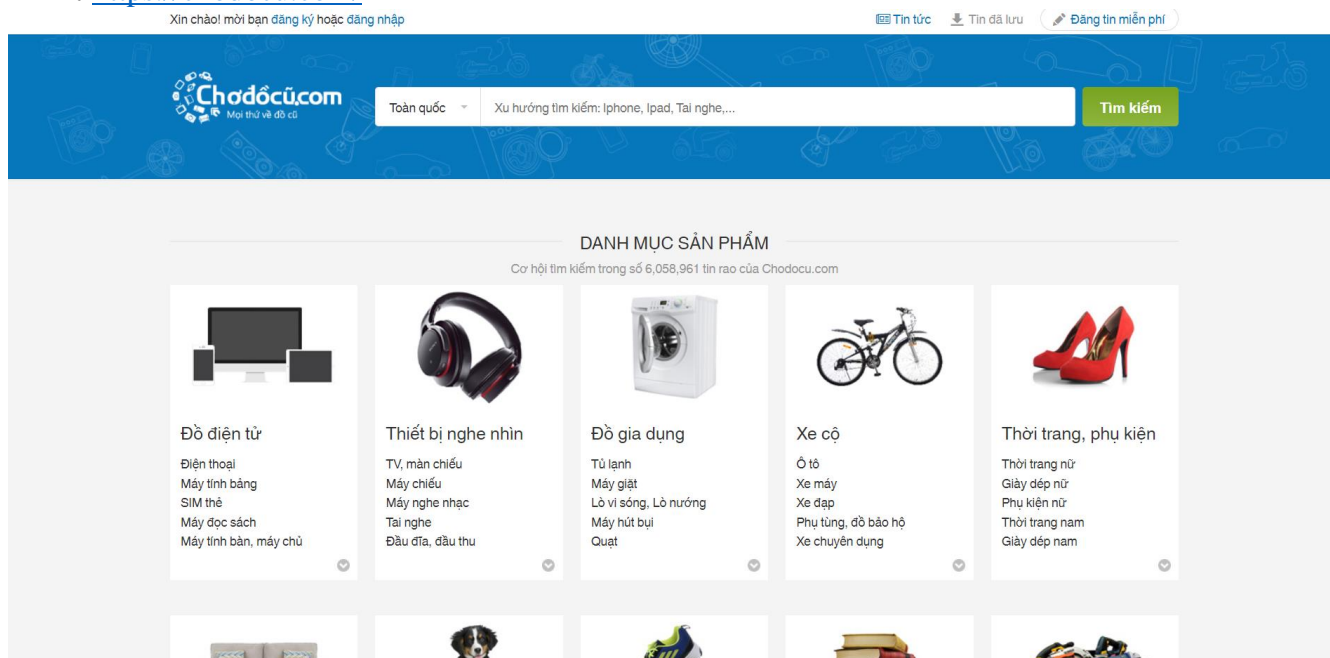


Figure 2: Chodocu.com System

- **System actor:**
 - + Admin system
 - + User
- **Advantage:**
 - + Provide a huge amount of information about products and goods in people's lives

- + Providing the best products and services, enabling buyers and sellers to exchange and transact
- + Help those who need to find and buy satisfactory products and goods when they have limited financial resources, or simply search for unique items at the best prices.
- **Disadvantage:**
 - + Buying goods in the form of a bid will make users less interested in buying on the system
 - + Customers will not know how much the product competitors have paid.
 - + It can make buyers regret and depressed when they can't own the product because the price is too low compared to others

4. Business Opportunity

Currently, when the world is in the process of "digital transformation". Many e-commerce sites appeared, leading to changes in people's shopping needs. Currently, people are gradually turning to online shopping, but websites for selling second-hand goods online are still very limited despite the high demand for second-hand goods. Seizing that opportunity, we created a Secondhand market to make it easy for people to buy essential items at cheap prices. through which we will have a large number of users and mine and make money based on that number of users.

5. Software Product Vision

Today, buying and selling between people is an essential issue, although there have been websites, and e-commerce sites to help us buy and sell, those websites are still not enough. enough demand for the function makes it difficult or impossible for people to use, so many sellers still have to choose a location to create a direct trading market. Moreover, after the corona pandemic (covid - 19) we can see the danger when we come into contact with each other in large numbers. Therefore, the birth of the Second-hand market is a necessary and useful answer to solve this problem of buying and selling.

- Vision (Brief, inspiring goal for the product encapsulating the big idea & motivations):
 - + Replacing the traditional form of buying and selling also brings many inadequacies, optimizing prices and types of goods, providing many choices for people who want to buy and sell, and making it easier for users to buy and sell goods. by shopping online, thereby contributing to the world's "digital transformation" of business models
- Target group (Who will the product serve?):
 - + Buyers and sellers have a need to find and sell used items
- Needs (What problems should the product solve for the target group?):
 - + There will be many items to choose from people, thereby helping people to choose the right product, can optimize the price and time by being able to negotiate with each other on the application.
- Product (How will our product meet the needs of the target group?):
 - + Analyze the user's location, thereby recommending the products closest to the user
 - + Integrated chat feature to help users exchange information easily
 - + pay money via online payment methods
 - + Allows users to top up the website to push their listings to the front page

- + users can easily log in to the website and authenticate via google, facebook.... making it more convenient for users to use
- + added voting feature to increase the prestige of those who have confirmed the transaction successfully
- Business Goals (How will the product benefit the company?):
 - + Second-hand market will become the largest second hand e-commerce site in Vietnam

6. Project Scope & Limitations

- Our products are aimed at solving the buying and selling of people, specifically those who want to resell their used things, and who need to find themselves items at a reasonable price. . In addition, our products help people chat with each other like a popular social networking site today to negotiate with each other, or take a closer look at products to buy and sell. After finding out, there are sellers and buyers who transact with each other or can transact by paying on the website and the money will be transferred directly to the seller.

6.1 Major Features

6.1.1. Second-Hand Market Seller Site

- FE-01: Posting to sell products
- FE-02: Post management: view, edit and delete posts
- FE-03: Personal information management: view, edit, and delete personal information
- FE-04: Message to contact the buyer directly
- FE-05: Create auction
- FE-06: Block Other Users
- FE-07: Pay to push your product post to a higher position to easily reach buyers

6.1.2. Second-Hand Market Buyer Site

- FE-01: Search for products by (category, category, product name, product location)
- FE-02: Save your favorite posts so you can buy them later
- FE-03: Manage the list of products they have purchased: view, delete purchased products
- FE-04: Personal information management: view, edit, and delete personal information
- FE-05: Message to contact the seller directly
- FE-06: Auction
- FE-07: Block Other Users

6.1.3. Second-Hand Market Admin Site

- FE-01: User account management: View and delete the account of the offending User
- FE-02: Manage User Posts: see which user's post to delete when it's violated
- FE-03: Auction manager

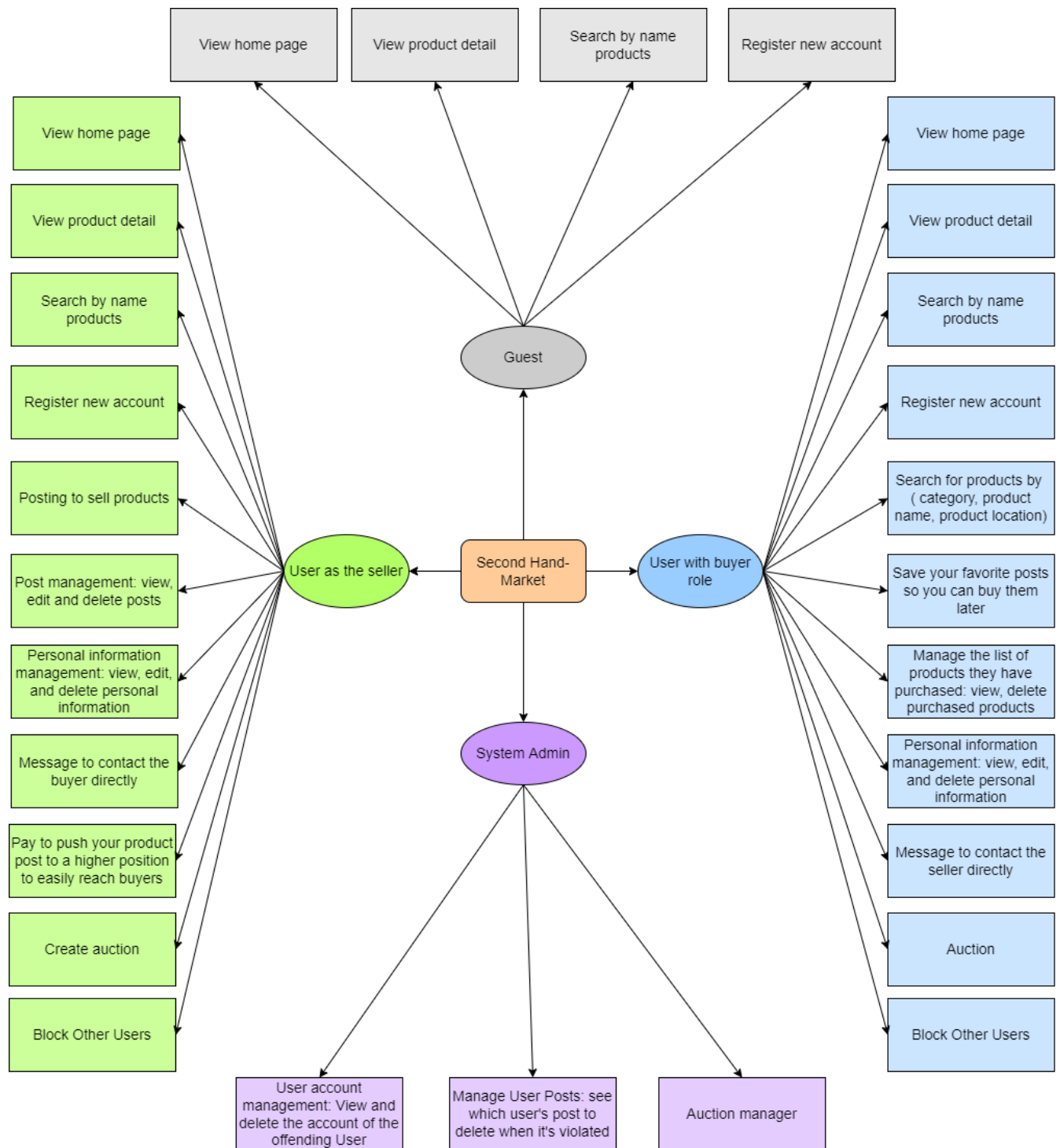


Figure 3: Major Features

6.2 Limitations & Exclusions

- LI-01: Do not cooperate with 3rd party delivery