

Software Requirement Specification For Bartering System

Team 14

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Trello Board: [Trello](#)

Github Page: [Github](#)

1. Introduction

1.1 Purpose

A Bartering System is an application that facilitates the exchange of used household items. Instead of throwing used goods away, owners now have a chance to give them to someone in need and receive other items in return.

1.2 Scope

The Bartering System Program is a web-based platform that facilitates the exchange of household items. The web-based application offers a variety of functionalities such as product listing, search functionalities, transaction features, and feedback.

1.3 Definitions

User	An individual registered on the platform.
Listing	A product uploaded by a user for exchange.
Transaction	An agreed-upon exchange between two users
Platform	The Bartering System Program web application

2. Overall Description

2.1 Product Perspective

The system is a stand-alone platform designed for exchanging household items. Our vision for the product is to create a vibrant community of traders and ultimately become the go-to platform for individuals and businesses to trade efficiently and sustainably.

2.2 Product Functionalities

- User registration and profile management
- Listing items with descriptions and estimated prices
- Searching for items based on descriptions and price ranges
- Creating and managing transactions
- Live messaging app between users in a transaction.
- User Feedback

2.3 User Classes and Characteristics

End-Users:

- Register and authentication
- Manage profiles
- List and upload items, search and browse for new items in the market\
- Create and manage transactions

Admin:

- Monitor listings
- Manage user data
- Handle transactions
- Manage feedback.

2.4 Operating Environment

Frontend: HTML and JavaScript

Server: Node.js for server-side JavaScript execution, ExpressJS for backend framework, ejs for viewing engine

Database: MongoDB

3. System Features



Figure 1: Use-case diagram for Bartering System

3.1 User Registration and Authentication

Registration Inputs: Username, password, email

Registration Process: Validate user information, data connect to database

Registration Outputs: New user account on the platform

Login: log in with username and password

3.2 Item page feature

Upload: users can upload their product on the website with name, description, image, estimated price

Get: Validate item information and save to the database, and display on the platform

Delete: users can delete the items they post before

3.3 Searching for Items

Inputs: Keywords, price range

Process: Search database based on input criteria

Outputs: Display of relevant item listings

3.4 Transactions Management

Inputs: The user selects the item(s) they wish to barter

Process: Transaction will start

Outputs:

- On completed: record complete transaction, and cancel all related transactions with those products.
- On cancel: close transaction

3.5 Messaging

Input: Within a transaction, user can message each other user by clicking "Open Chat"

Process: Server will connect the user to the room with the according transaction ID

Outputs:

- User can live message each other via the chat app

3.5 Info page feature

Post: users can post their feedback (phone, email, name, message)

Process: the data connect to the database;

Outputs: Receive user feedback notification

Delete: users also can delete the feedback they post before

3.6 Admin feature

It is crucial that there is an admin account to access to manage the website. The admin has to view the feedback to keep updating the website functions and running. Moreover, it plays an important role in checking the information users post as sometimes some users will utilize the platform to promote their product or upload some illegal details on it.

Review feedback, Edit the item's description and image

3.7 Favorites feature

Once users are browsing the item they like, they can click on the 'Favorite' button then they can view the list of all the items they like on the user profile page.

3.8 Notification feature

Once users first login to the website, a welcome message will show at the top of the homepage.

4. Non-functional Requirements

4.1 Security

Data Storage: MongoDB encrypts sensitive user data.

User Authentication: Password hashing using cryptographic techniques.

4.2 Usability

Documentation: A comprehensive README file is provided, guiding both developers and end-users on how to set up and navigate through the system. This ensures that users can utilize the platform without the need for formal training.

Mobile Responsiveness: Functional on desktops, tablets, and smartphones.

4.3 Maintainability

Code Organization: Modularity for easy updates and bug fixes.

Documentation: Detailed for future maintenance.

Code Consistency: We use `prettier` as our code formatting tool to ensure that our codebase has a consistent style. This makes the code more readable and reduces the chances of style-related debates during code reviews.

5. External Interface Requirements

5.1 User Interfaces

Homepage: Features search bar, recent listings, and user login/registration.

Product page: Feed, product filter feature

Product detail page: Product details, favorite button, transaction button.

Info page: Introduction of our team, Send feedback.

Transaction page: Transaction details (transaction products, barterer's information, current status, progress bar), finish button, cancel button, rating and review tab (for finished transaction)

Profile page: User information, product listings, and transaction records.

5.2 High fidelity Prototype

5.2.1 Transaction page

<https://www.figma.com/file/6Ugey5xsXHBKG6Xk4SUHKZ/SIT725-Transaction?type=design&node-id=0%3A1&mode=design&t=nLX68GWmcALMRxFd-1>

Search Search

Home Items **Transactions** Info Welcome, Khoa

Transaction

Filter: All ▾

- Transaction detail 1
- Transaction detail 2
- Transaction detail 3

Details

>> Open Chat

Current Status: Active

Trading Products:

↔

Barterer Information:

Avatar

Name
Email
Phone Number

Actions

Finish

Cancel

Search Search

Home Items **Transactions** Info Welcome, Khoa

Transaction

Filter: All ▾

- Transaction detail 1
- Transaction detail 2
- Transaction detail 3

Details

Current Status: Interrupted

Trading Products:

↔

Barterer Information:

Avatar

Name
Email
Phone Number

Actions

Delete

Search Search

Home Items **Transactions** Info Welcome, Khoa

Transaction

Filter: All ▾

- [Transaction detail 1](#)
- [Transaction detail 2](#)
- [Transaction detail 3](#)

Details

Current Status: Pending

Trading Products:

↔
Product 1

↔
Product 2

Barterer Information:

Avatar
Name
Email
Phone Number

Actions
Waiting for other users

Search Search

Home Items **Transactions** Info Welcome, Khoa

Transaction

Filter: All ▾

- [Transaction detail 1](#)
- [Transaction detail 2](#)
- [Transaction detail 3](#)

Details

>> Open Chat

Current Status: Finished

Trading Products:

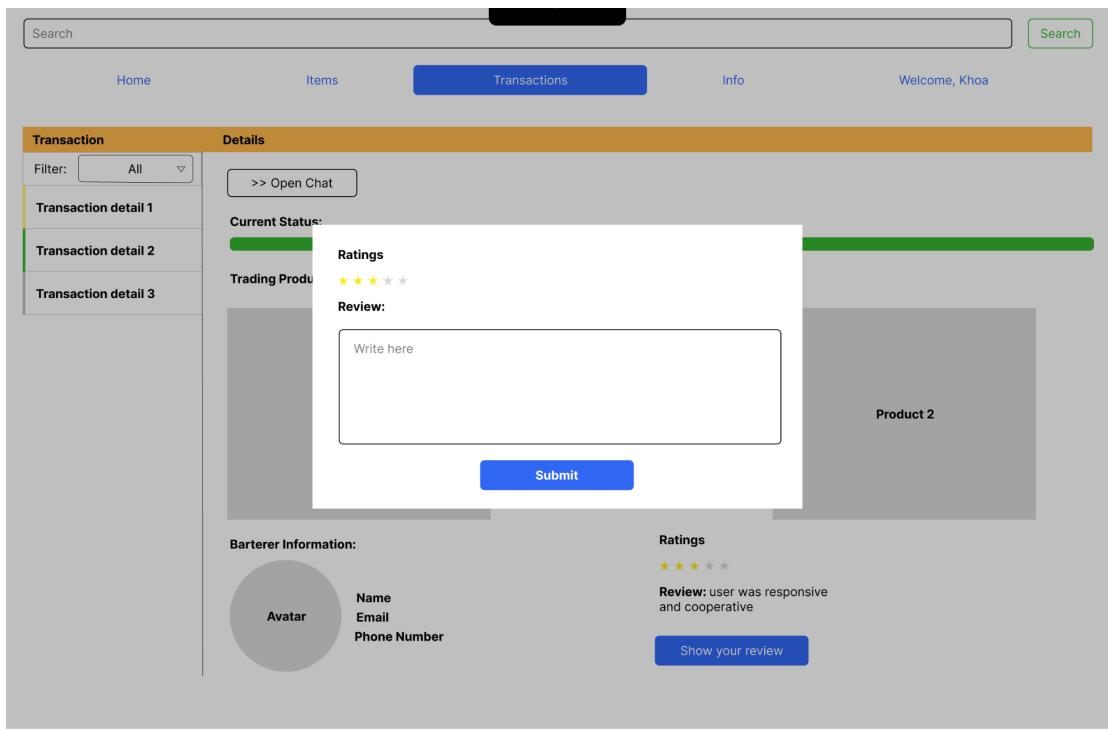
↔
Product 1

↔
Product 2

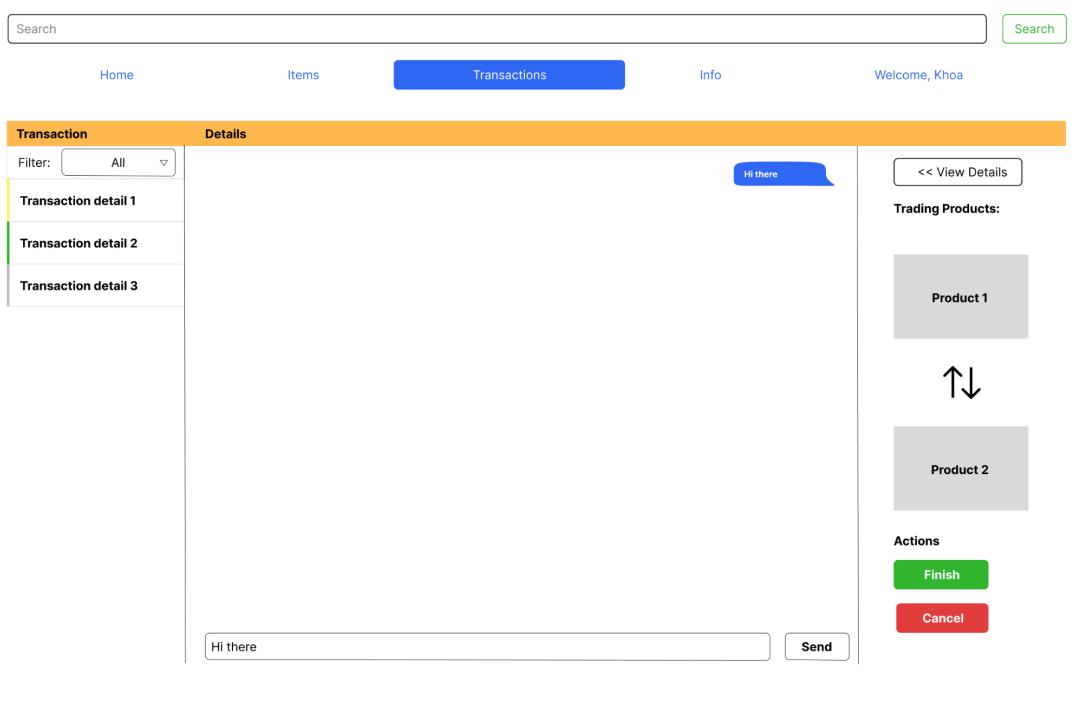
Barterer Information:

Avatar
Name
Email
Phone Number

Ratings
★ ★ ★ ★
Review: user was responsive and cooperative
[Show your review](#)

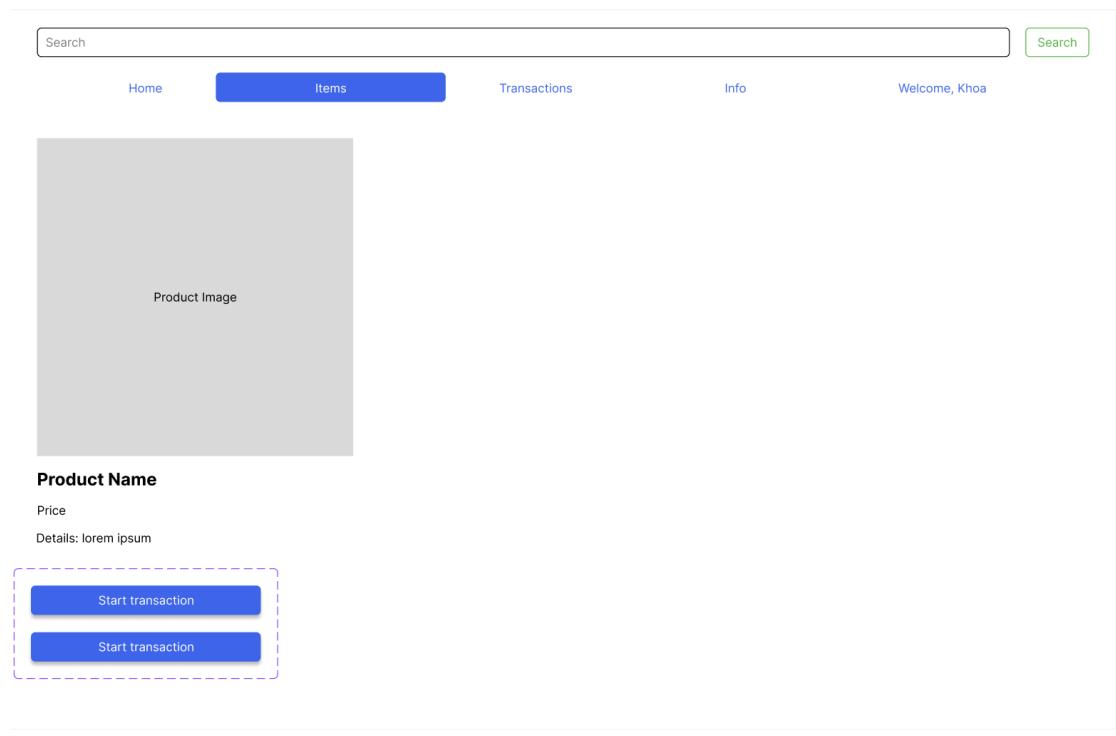
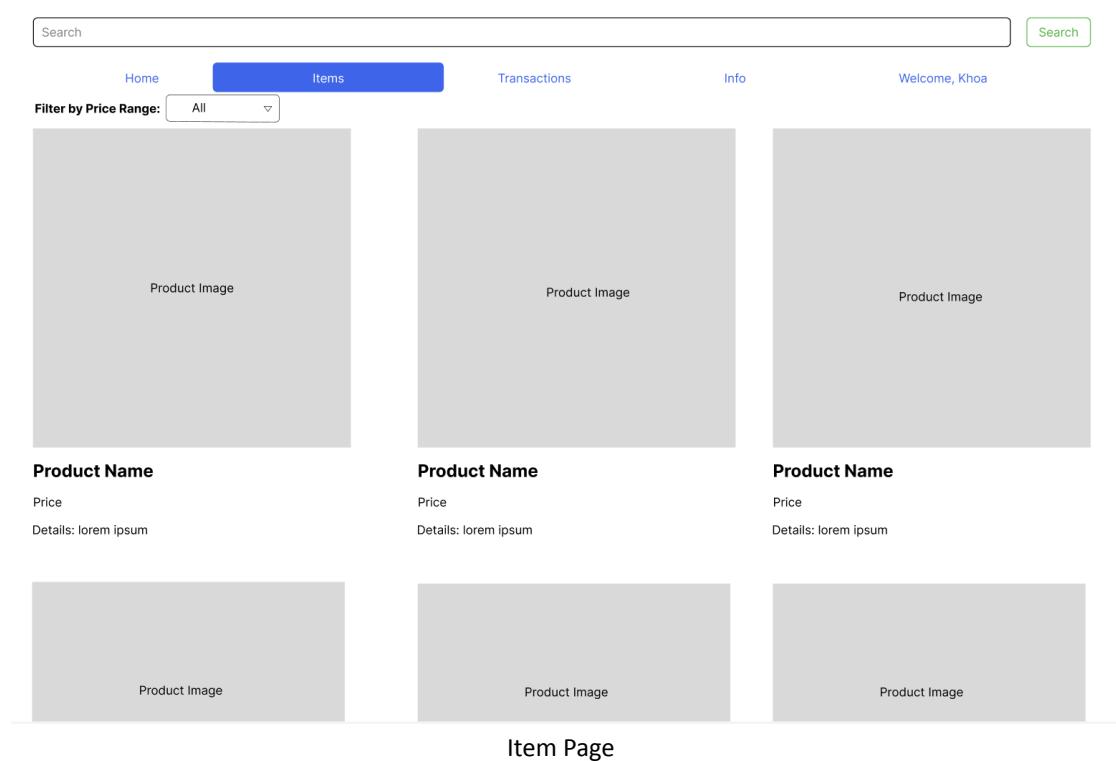


Transaction page with finished status: give a new review



Transaction page: open chatbox

5.2.2 Item page



5.2.3 Info page



Our Story

Story content

FAQs

FAQs content

Contact Us

SEND US EMAIL

Email address

Name

Phone number

Message

SEND

Info page(our story, FAQs, feedback)

5.2.4 Profile page



Khoa's Profile

Email: name@example.com

[Upload Item](#)

Your current available products:

Product Name	Image	Price	Details

Profile page

5.2.5 Home page

Home page

Search Search

HOME ITEMS TRANSACTION INFO SIGN IN ▾



Feature Introduction



Search into our extensive database to find the exact item you're looking for. Use keywords or categories to narrow down your search and discover items available for trade.



Browse our extensive database to find the exact item you're looking for. Use keywords or categories to narrow down your search and discover items available for trade.



Search into our extensive database to find the exact item you're looking for. Use keywords or categories to narrow down your search and discover items available for trade.

Uploading your items is a breeze. Take a picture, add a brief description, determine its approximate value, and you're ready to trade! Make your unused items available to others and find value in exchange.



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Uploading your items is a breeze. Take a picture, add a brief description, determine its approximate value, and you're ready to trade! Make your unused items available to others and find value in exchange.

How to use our bartering system : A step-by-step Guide

Select and List Your Item:

Start by choosing an item you wish to exchange. Make sure it's in decent condition, as it's appealing for other users.

Once selected, navigate to the "Upload Item" section of our platform.

Provide all the necessary details about the item, including a clear photograph, a brief description, and its approximate value.

Search for Equivalent Items:

Search into our vast collection of items available for trade. Utilize the search bar to input keywords or item names to find potential matches.

For a more precise search, use the filter options. Filter by value range to find items that match the value of what you're offering.

Browse through the search results, read the descriptions, and view the photos to decide if you're interested in any of the listed items.

Choose and Confirm Trade Partner:

Once you've found an item you're interested in, click on the "Trade" or "Swap" button next to the item listing.

You'll be taken to a page where you can view more details about the item and the user offering it.

If everything looks good, click on the "Confirm Trade" button. This will notify the other user of your interest in trading.

Provide Shipping Details:

After confirming the trade, you'll be prompted to input your shipping address. Make sure to provide accurate details to ensure smooth delivery.

Confirm the shipping address and click on the "Complete Trade" button.

The other user will receive a notification and will provide their shipping details in return.

Benefits of Our bartering system



Contact Us About FAQs

Home page

Login

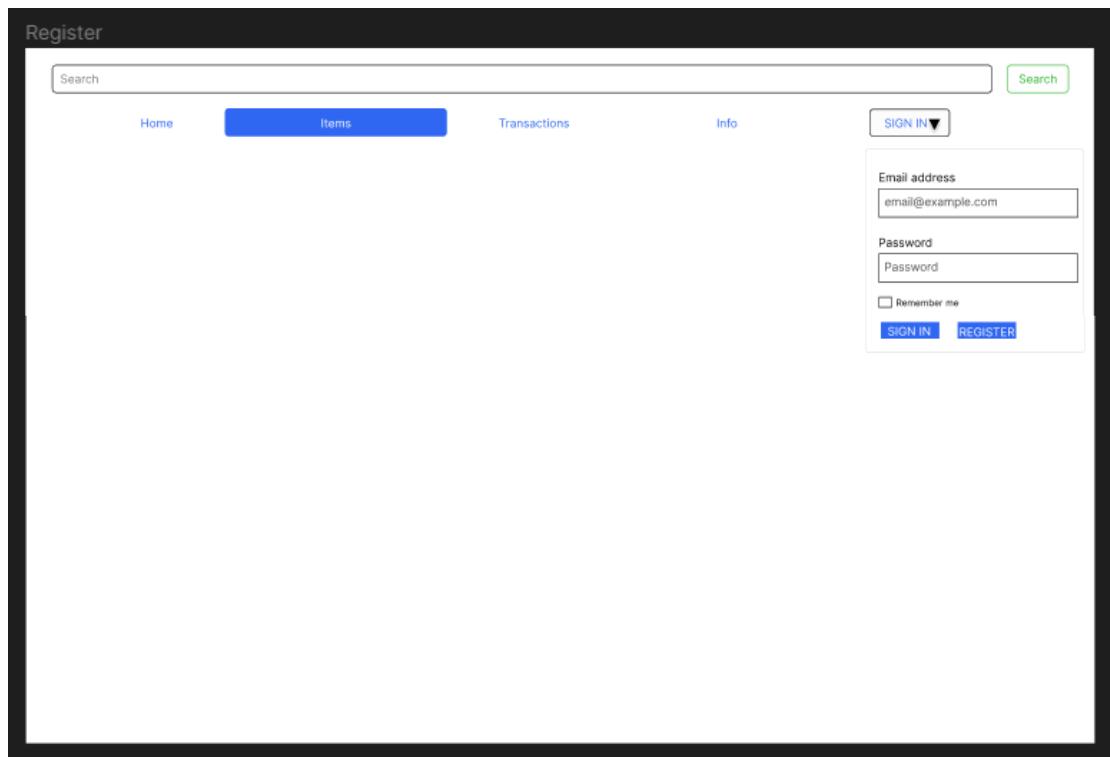
The screenshot shows a web application interface with a dark header bar. The title "Login" is at the top left. Below it is a search bar with placeholder "Search" and a green "Search" button. A navigation menu includes "Home", "Items" (which is highlighted in blue), "Transactions", "Info", and a "SIGN IN" button with a dropdown arrow. The main content area contains a form for logging in. It has fields for "Email address" (with value "email@example.com") and "Password" (with value "Password"). There is a "Remember me" checkbox and two buttons: "SIGN IN" and "REGISTER".

login page

Login-invalid

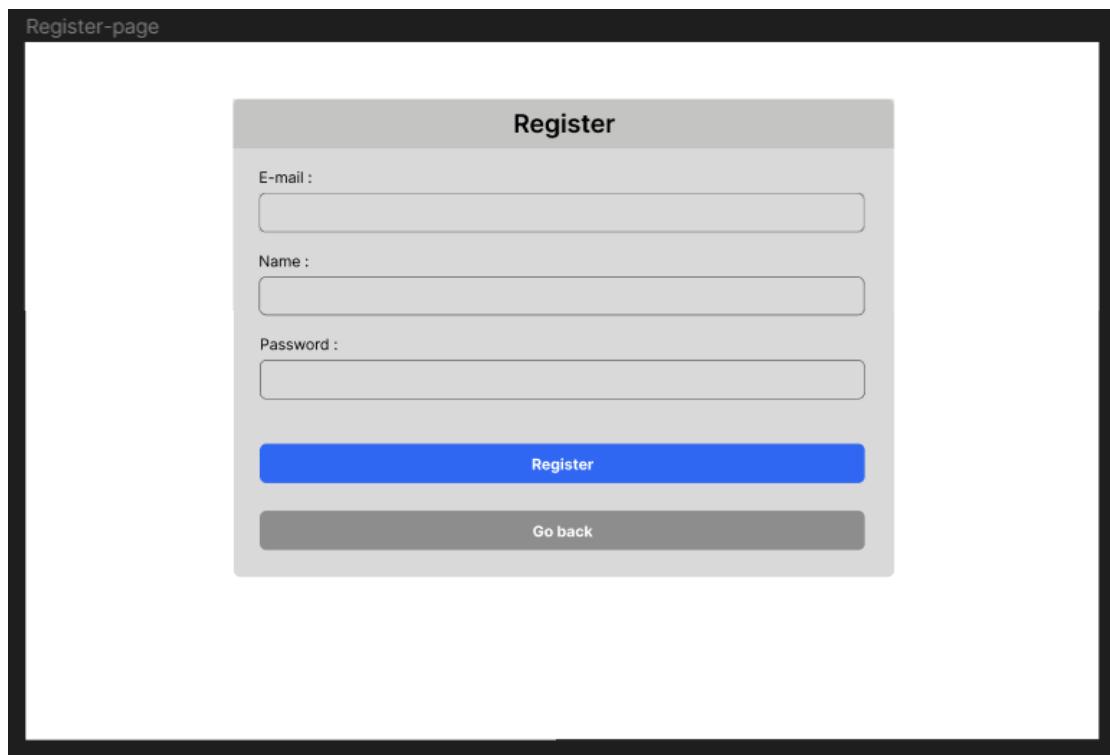
This screenshot is identical to the one above, showing a successful login attempt. The "SIGN IN" button is highlighted in blue, and there is no visible error message. However, the "INVALID" status is present in the log output below.

login- invalid

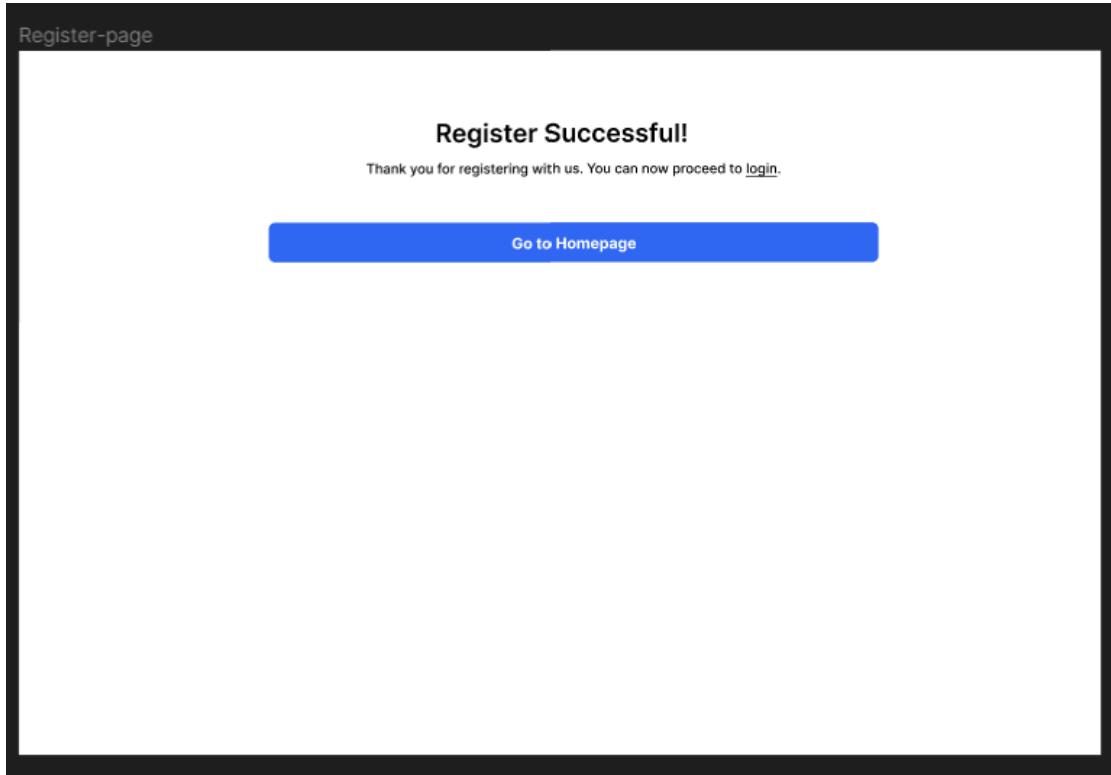


register page

5.2.6 Registration page



register - input information page



register successfully page

5.2.7 Admin page

The screenshot displays the Admin page interface. At the top, there's a navigation bar with "Home", "Items", "Transactions", "Info", and a "Welcome, Admin" button. A search bar is also present.

User Management: This section lists users with their names, emails, roles, and actions (Edit, Delete). The user "Eisen" is currently selected.

User	Email	Role	Action
Christina	Christina@gmail.com	User	Edit Delete
Eisen	Eisne@gmail.com	admin	Edit Delete
Nate	Nate@gmail.com	User	Edit Delete

Product Management: This section lists products with their names, images, prices, details, and actions (Edit, Delete). The product "Table" is listed.

Product name	Image	Price	Details	Action
Table		102	wooded	Edit Delete

All Feedbacks: This section lists feedback entries with columns for ID, Email, Name, Phone, Message, and Action.

ID	Email	Name	Phone	Message	Action
asasad1121a	Eisne@gmail.com	Eisen	493556668	Very Great	Delete
asasad1121a	Eisne@gmail.com	Eisen	493556668	Very Great	Delete

admin page

Edit-user

Edit User

Username:

E-mail:

Role:

[Save change](#)

edit-user page

delete user

Admin Panel					
User Management					
User	Email	Role	Action		
Eisen	Eisne@gmail.com	admin	Edit	Delete	
Nate	Nate@gmail.com	User	Edit	Delete	
Product Management					
Product name	Image	Price	Details	Action	
Table		102	wooded	Edit Delete	
All Feedbacks					
ID	Email	Name	Phone	Message	Action
asasadd1121a	Eisne@gmail.com	Eisen	493556668	Very Great	Delete
asasadd1121a	Eisne@gmail.com	Eisen	493556668	Very Great	Delete

delete user page

Edit-product

Edit Product

Product name:

Price:

Description:

[Save change](#)

edit-product page

delete-product

Search

[Home](#)
 [Items](#)
 [Transactions](#)
 [Info](#)
 Welcome, Admin

Admin Panel

User Management

User	Email	Role	Action
Christina	Christina@gmail.com	User	Edit Delete
Eisen	Eisne@gmail.com	admin	Edit Delete
Nate	Nate@gmail.com	User	Edit Delete

Product Management

Product name	Image	Price	Details	Action

All Feedbacks

ID	Email	Name	Phone	Message	Action
asasadd1121a	Eisne@gmail.com	Eisen	493556668	Very Great	Delete
asasadd1121a	Eisne@gmail.com	Eisen	493556668	Very Great	Delete

delete user page

Admin page-feedback

Search Search

Home Items Transactions Info Welcome, Admin

Admin Panel

User Management

User	Email	Role	Action
Christina	Christina@gmail.com	User	Edit Delete
Eisen	Eisne@gmail.com	admin	Edit Delete
Nate	Nate@gmail.com	User	Edit Delete

Product Management

Product name	Image	Price	Details	Action
Table		102	wooded	Edit Delete

All Feedbacks

ID	Email	Name	Phone	Message	Action
asasadd1121a	Eisne@gmail.com	Eisen	493556668	Very Great	Delete

delete feedback page

User profile page

Search Search

Home Items Transactions Info Welcome, Eisen

Eisen 's Profile

Email: eisen@gmail.com

[Upload Item](#)

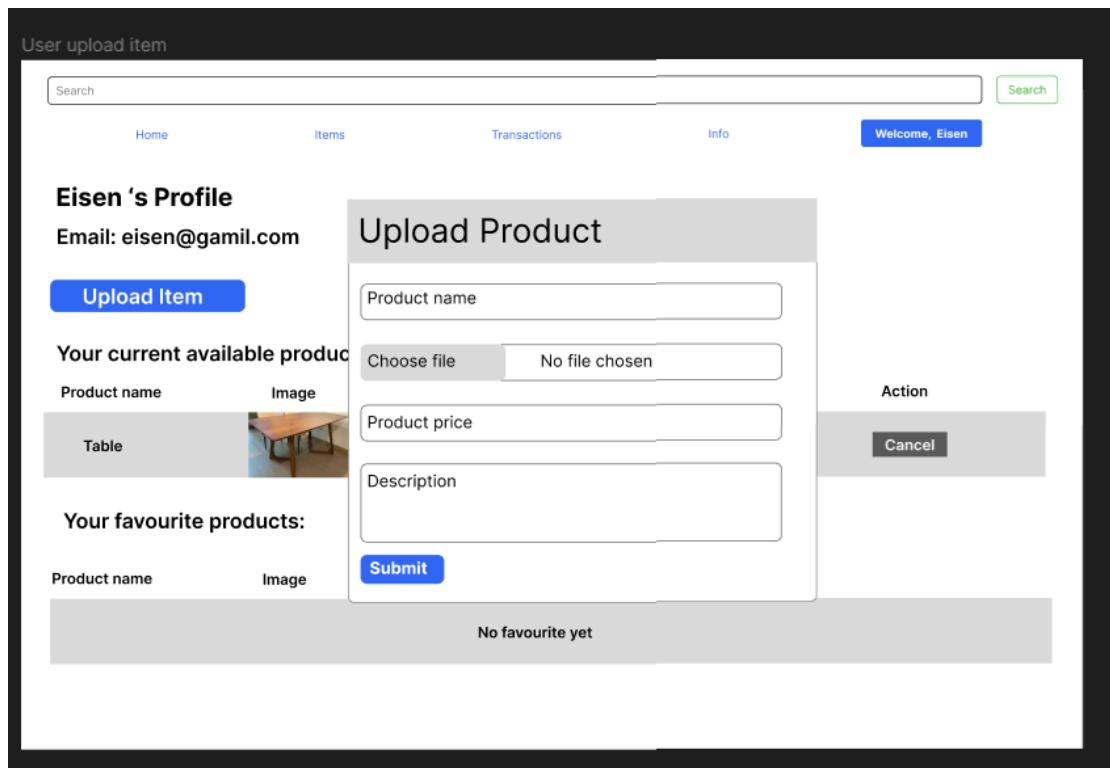
Your current available products:

Product name	Image	Price	Details	Action
Table		102	wooded	Cancel

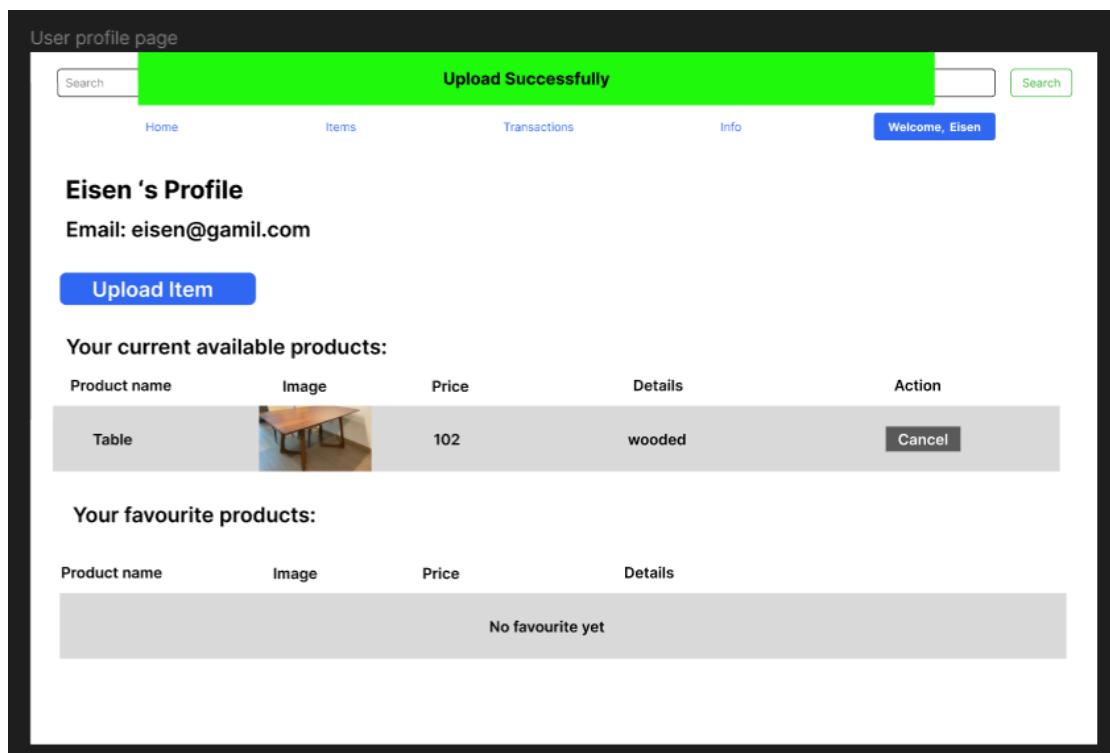
Your favourite products:

Product name	Image	Price	Details
No favourite yet			

User profile page



User upload item page



user upload successfully page

<https://www.figma.com/file/1OSFvSA1qmWnqvqlpcUERf/Login-register-admin-home?type=design&node-id=0-1&mode=design&t=LygPsoN4F6bFRRQh-0>

6. End-to-end testing report

6.1 End-to-end testing for authentication middleware

Purpose	When a user is unauthenticated, redirect the user to the login page. Only after login, all features are available to the user.
Person in charge	Khoa Anh Do
Implementation	test/e2e/auth.cy.js
Step	<ol style="list-style-type: none">1. User goes to http://localhost:3000/transaction page2. User is unauthenticated. The server automatically redirects to http://localhost:3000/login?redirect=/transaction3. User enter email and password4. User clicks submit. Information is sent to the server and a new user session is created5. Authentication is successful. User is redirected to http://localhost:3000/transaction page
Status	Success

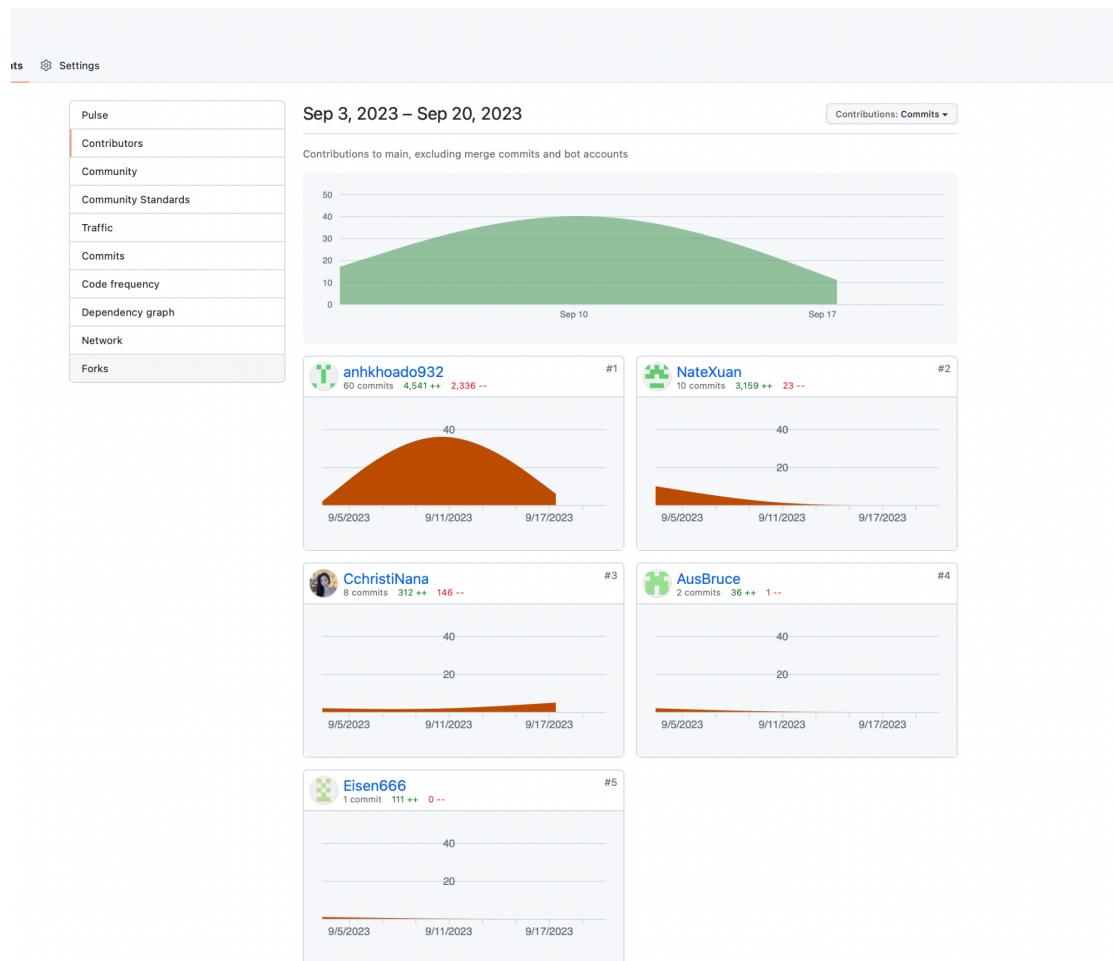
6.2 End-to-end testing for transaction

Purpose	User can view items on the market, select an item they wish to trade, and begin the transaction
Person in charge	Khoa Anh Do
Implementation	test/e2e/transaction.cy.js
Step	<ol style="list-style-type: none">1. User authenticate with email and password2. User goes to http://localhost:3000/product page3. User selects 1 item from the product page. The server redirects to product details.6. User clicks the “Start Transaction” button. A popup containing the user’s uploaded items appears.7. The server creates a new transaction if not exist. The server redirects to the transaction detail page of the new transaction
Status	Success

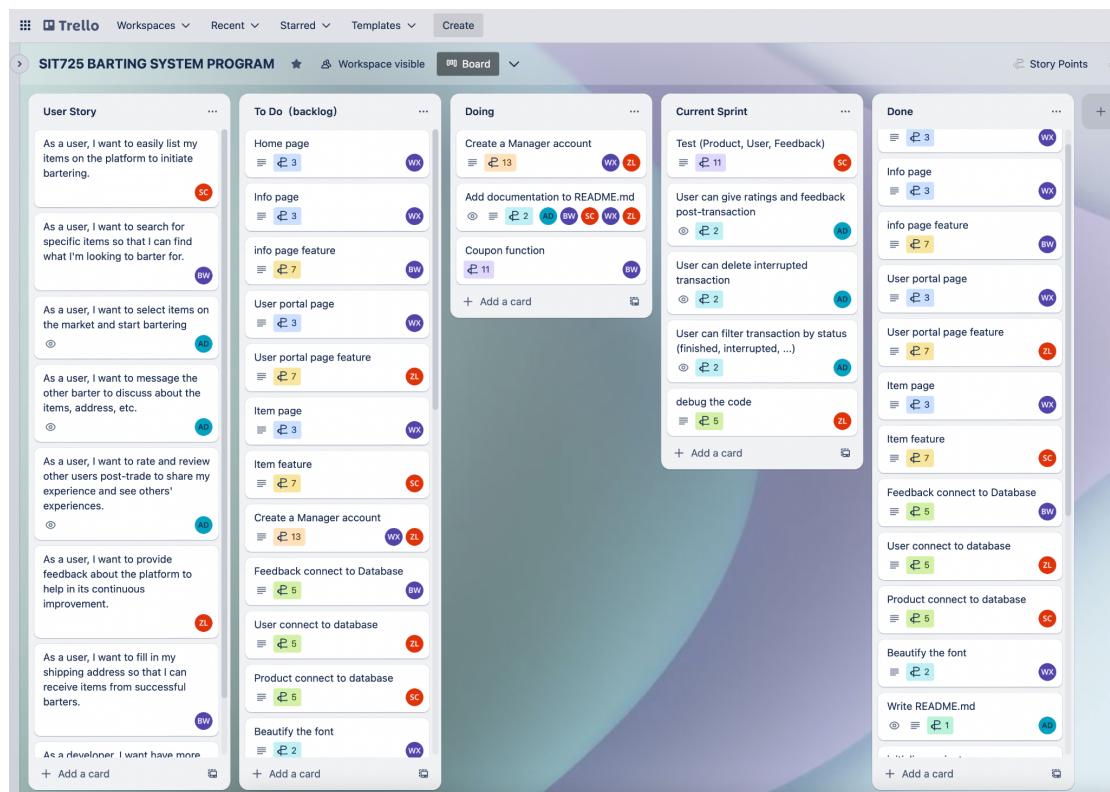
Purpose	User can send a message to another user in a transaction
Person in charge	Khoa Anh Do
Implementation	test/e2e/transaction.cy.js
Step	<ol style="list-style-type: none"> 1. User goes to the transaction detail on page 2. User clicks the “Open Chat” button 3. User types “hello” to the chatbox and clicks send 4. A new chat will be created on the server, and the browser will send the new message.
Status	Success

Appendix 1: Sprint 1 Review

Git contribution



Trello board



Task Completion Report

Khoa:

- Design Transaction schema and implement CRUD
- Design Message schema and implement CRUD
- Transaction page: user can list transactions and details
- Transaction page: user can chat in message app
- Product detail page: user can select item to barter
- User can finish or cancel a barter transaction
- Write README.md

Note:

- Website layout design
- Initiating the project, necessary libraries and frameworks
- Establishing Project Structure
- Create the front-end files code including all the ejs files and html files.
- Created the viewRoutes code for handling basic page navigation and user interactions, utilizing HTTP GET requests for serving pages and displaying data and utilizing HTTP POST requests for capturing form data and initiating actions.

Eisen:

- Users register an account with email, username and password
- Collecting users' data and connecting to database
- Users login feature
- Create admin account to manage website

- Admin account can review all the feedback
- Admin account can modify and delete item(users' post, image, description)
- Admin account can modify and delete users

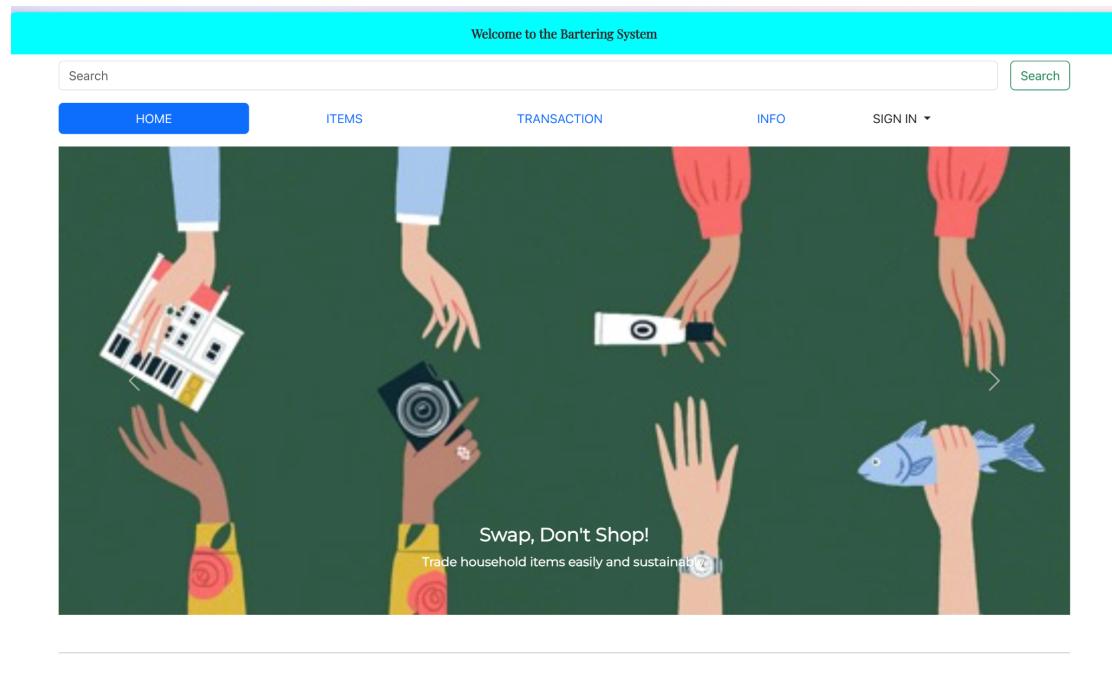
Christina:

- Item page: display all the items which users uploaded
- Item detail page: display the price and description of each item
- Product controller, product router, product model

Bruce:

- Feedback page: User can post feedback to the Website
- Feedback controller, feedback router, feedback model
- Notification Feature, notification controller, notification router, notification model

Screenshots



Welcome to the Bartering System

Search
HOME
ITEMS
TRANSACTION
INFO
Welcome, Eisen

Filter by Price Range: All



[BRAND NEW] Wooden Table
Price: 500
Brand new. Bought it on Sep 08th but my wife didn't like it



iMac
Price: 2000
Purchased Jan 2022. Minor scratches on the side



[LIKE-NEW] Airpod Pro 2
Price: 400
Used twice in a year. I dropped it in the ocean once

Item page

Welcome to the Bartering System

Search
HOME
ITEMS
TRANSACTION
INFO
Welcome, Eisen



Duck Lamp
Price: 120
Details: It's a cute duck lamp. Doesn't work X

[Start Transaction](#)

Contact Us
About
FAQs

© Website designed by Vegetable Dog Team. Last updated 17/08/2023.

Item detail page

Welcome to the Bartering System

Search

HOME ITEMS TRANSACTION INFO Welcome, Eisen

Search



Duck Lamp

Price: 120

Details: It's a cute duck lamp.

Start Transaction



[99% NEW] Autonomous table



Knife set

About FAQs

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Start transaction

TRANSACTION PAGE

Search

HOME ITEMS TRANSACTION INFO Welcome, Eisen

Transaction Details

» Open Chat

Current status: Active

Product:

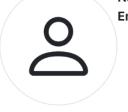


\$400



\$120

Barterer:



Name: Khoa
Email: khoa@gmail.com

Action:

Finish Cancel

About FAQs

Transaction page

TRANSACTION PAGE

Messaging app tab on the transaction page

TRANSACTION PAGE

Our Story

Hi, We are the Vegetable Dog Team. Our bartering system website is located here. We have a great opportunity to create our own website. Our adventure started with a common goal: to try our best to make this website. We made this concept a reality through countless cups of coffee, brainstorming meetings, and late-night coding marathons. Our platform is more than simply a website; it is a symbol of our commitment, a manifestation of our enthusiasm, and – most importantly – This has further deepened our understanding of teamwork. We appreciate you coming along for the journey. Together, let's trade, save, and sustain!

FAQs

Question: What is a bartering system?

- Answer: A bartering system is an online platform where users can exchange goods or services without the use of money.

Question: How do I list my items for exchange?

- Answer: You can list your items by creating an account, logging in, and following the steps to upload the item details and images.

Question: How do I find items I want to exchange for?

- Answer: You can search for items using the search function on the website, or you can browse through the categories to find items that interest you.

Question: Is there a fee for using the bartering system?

- Answer: Our bartering system is free to use for both listing and exchanging items.

Info page: our story and FAQs

- Answer: You can search for items using the search function on the website, or you can browse through the categories to find items that interest you.

Question: Is there a fee for using the bartering system?

- Answer: Our bartering system is free to use for both listing and exchanging items.

Question: How do I ensure my privacy when exchanging items?

- Answer: Our platform allows you to exchange contact and shipping information privately with the other party involved in the trade.

Contact Us

SEND US EMAIL

Email address

Name

Phone Number

Message

SEND

Info Page: Feedback form

Search

Search

HOME

ITEMS

TRANSACTION

INFO

Welcome, Eisen

Eisen's Profile

Email: eisen@gmail.com

Upload Item

Your current available products:

Product Name	Image	Price	Details	Action
[99% NEW] Autonomous table		1000	Height-adjusted table!! Get one now Left in stock: 01	Cancel
Knife set		400	Used. Still in good shape. Preserved and sharpen, ready to use	Cancel
Samsung Galaxy Tab S8		1000	Used for three days	Cancel
Old clothing		100	Doesn't fit me anymore. For children age 3-12	Cancel

Profile page

Reflection

Khoa

All team members are very cooperative, responsive when needed, and take responsibility for their work. They are always punctual when it comes to meeting or deadlines, and willing to help out if other team members have some issues.

The project has a clear scope and well-planned tasks. The tasks are organized and updated regularly on the Trello board, making it easier to keep track of everyone's progress.

The codebase is organized, making it easy to develop new features. Some code logic still needs comments to clarify their functionality, and unit tests and end-to-end tests are needed for some features.

Nate

Working on the bartering system project has been an enriching experience, both technically and personally. As the front-end and view routing lead, I had to work closely with the database and back-end team members. For smooth communication and version control, we used programmes like MS Team and GitHub. Particularly when I had to combine my EJS templates with the server logic, I came to understand the importance of clear and consistent communication for keeping everyone on the same page. There were difficulties, like conflicting viewpoints on feature implementations, but they eventually helped me improve as a developer and a team player.

Bruce

In our group assignment, every member has put forth their best efforts. From the initial discussions on setting up the project to later technical interactions, we have effectively applied the knowledge we learned in this course. Here, I learned not only about the application of technology but, more importantly, about team collaboration. Each team member played to their strengths to ensure the successful realization of the project. While technical skills are crucial, the communication and collaboration within the team are also of utmost importance. I am deeply thankful to every team member for sharing their ideas, researching them, and for patiently addressing my technical questions.

Eisen

In our group task, we faced challenges, but through effective communication and teamwork, and we were able to overcome them. It was a great opportunity for me to gain more knowledge and language skills during this task. At the beginning of the task, we had a meeting to organize some ideas and features around the project, after that we allocated different parts to each member when we confirmed all the stuff. Otherwise, there are two members proficient in technical skills so they taught me some new approach and how to fix the errors. Overall, our group task was a valuable learning opportunity, fostering not only technical skills but also interpersonal and problem-solving abilities.

Christina

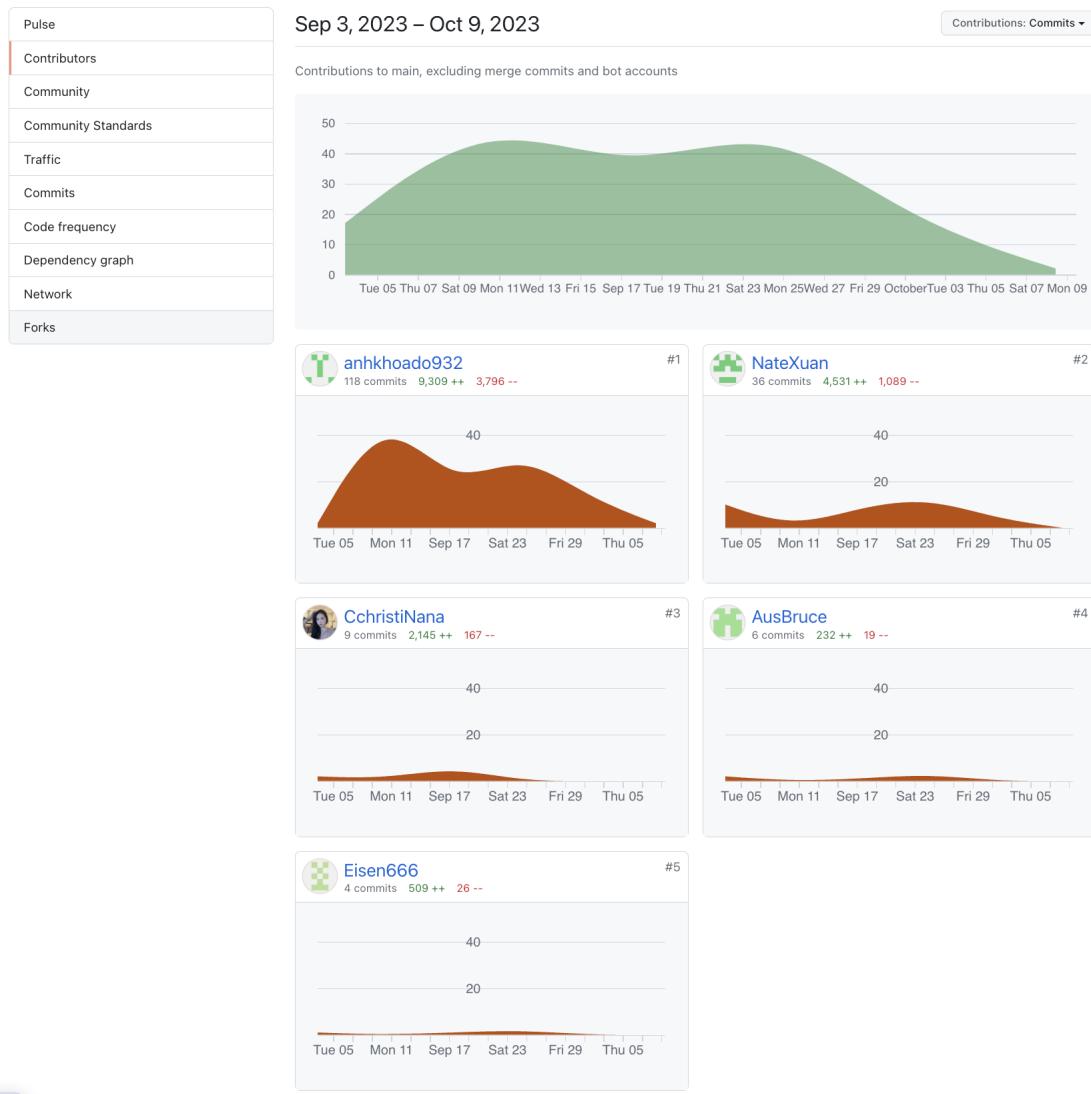
Our group project was a wonderful experience that went well beyond my expectations. It was clear from the start that each team member was not just highly competent but also completely devoted to the overall mission. Our different skill sets effectively complimented each other, allowing us to solve complicated issues with ease. The communication was flawless. We built a clear and open platform for free exchange of ideas and constructive comments. This created a supportive environment in which creativity thrived and invention became the rule rather than the exception. In addition to updates, our group meetings included brainstorming sessions that helped us become energized and more focused.

Appendix 2: Project Delivery

Trello Board: [Trello](#)

Github Page: [Github](#)

Git contribution



Trello

Task Contributions and Evidence

Khoa

Task Name (with Trello Link)	Branch Link
Design Transaction schema and implement CRUD	feature/design-transaction-schema-and-implement-crud
Design Message schema and implement CRUD	feature/design-message-schema-and-implement-crud
Design High Fidelity Prototype for Transaction and Chat app	figma
Transaction page: user can list transactions and details	feature/transaction-page-user-can-list-transaction-and-details
Transaction page: user can chat in message app	feature/transaction-page-user-can-chat-in-message-app
User can select item to barter	feature/user-can-select-item-to-barter
User can finish or cancel a barter transaction	feature/user-can-finish-or-cancel-a-barter
Write README.md	feature/write-README.md
Release v1.0.0	Branch: release/v1.0.0

	Release: Release First major release Docker release: Package Bartering System
Implement, build, and publish docker image <i>Note: in release/v1.0.0 branch</i>	anhkhoado932/BarteringSystem@10f989
Implement authentication middleware	feature/implement-authentication-middleware
User can give ratings and review post-transaction	feature/user-can-give-ratings-and-feedback-post-transaction
User can delete interrupted transaction	feature/user-can-delete-interrupted-transaction
User can filter by transaction status	feature/user-can-filter-transaction-by-status
Add template and transaction document to README	feature/add-template-and-transaction-doc-to-readme
Implement unit and end-to-end testing for transaction	feature/transaction-unit-and-end-to-end-testing
Release v2.0.0	Branch: release/v2.0.0 Release: Release second major version Docker release: Package Bartering System
Minor bug fixes/improvements	fix/remove-integrity-bootstrap-key fix/refactor-codebase fix/remove-redundant-logic fix/fix-for-demo

Eisen

Task Name (with Trello Link)	Branch Link
User portal page feature	
User connect to database	feature/user-login-register
User login feature	
User register feature	
Admin management feature(edit, delete)	feature/admin-account
Create a Manager account	feature/admin-account

Add the comment on it	feature/add-comment
Create figma for Register, Login, Admin Page	figma

Christina

Task Name (with Trello Link)	Branch Link
Item feature	feature/product-upload-delete
Product connect to database	fix/product-routes
Test (Product, User, Feedback)	feature/test-product%26feedback feature/test-userController
Add documentation to README.md	feature/add-template-and-transaction-doc-to-readme
Product filter	feature/product-filter
Design High Fidelity Prototype for Product Info Page	figma

Bruce

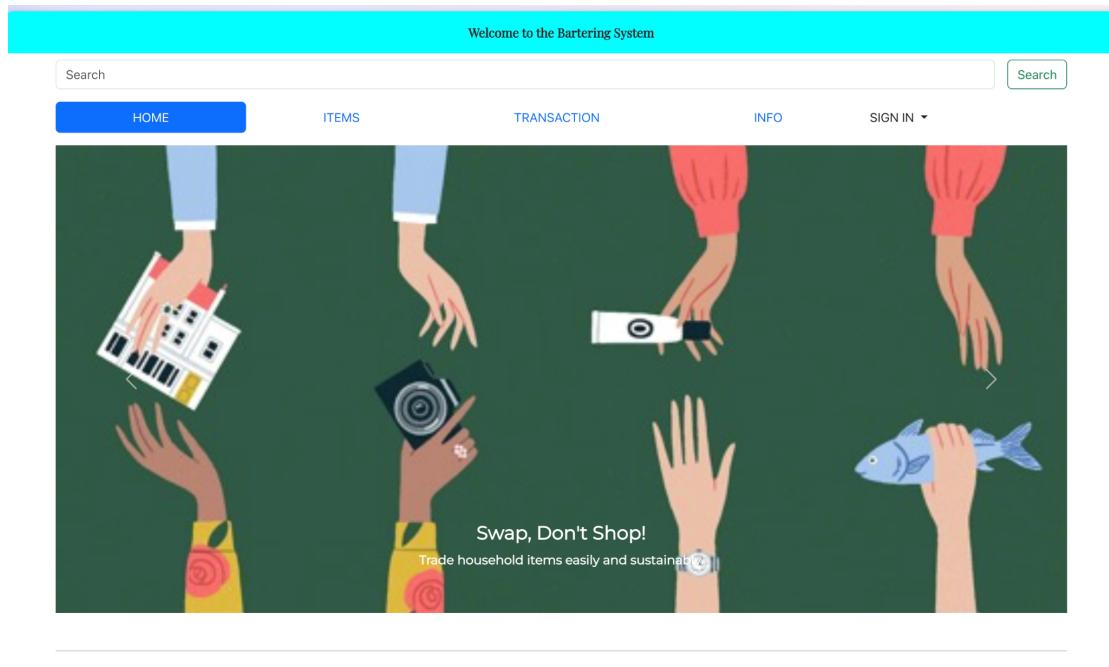
Task Name (with Trello Link)	Branch Link
Feedback page: User can post feedback to the Website	feature/feedback
Feedback controller, feedback router, feedback model	feature/Notification-Feature
Notification Feature, notification controller, notification router, notification model	feature/Notification-Feature
add notification feature for the application	
Update layout for the website	feature/layout

Nate

Task Name (with Trello Link)	Branch Link
initialize project	feature/initialize-project
install socket.io	feature/socket-install

Home page	
Item page	
Info page	feature/homepage-itempage-infopage-loginpage-feedbackpage
User portal page	
Beautify the font	
Create a Manager account	feature/admin-account
Notification Feature	feature/Notification-Feature
Favourite Feature	feature/favourite
Test (Notification, View)	feature/test-notificationController feature/test-viewController
debug the code	fix/Notification-feature-update fix/admin-edit-user-feature
debug the code (fix testing code)	feature/test-product%26feedback feature/test-userController
Add template and transaction document to README	feature/add-template-and-transaction-doc-to-readme

Screenshots



Home page

Welcome to the Bartering System

Search Search

HOME ITEMS TRANSACTION INFO Welcome, Eisen

Filter by Price Range: All

[BRAND NEW] Wooden Table
Price: 500
Brand new. Bought it on Sep 08th but my wife didn't like it

iMac
Price: 2000
Purchased Jan 2022. Minor scratches on the side

[LIKE-NEW] Airpod Pro 2
Price: 400
Used twice in a year. I dropped it in the ocean once

The screenshot shows the item page of the bartering system. It has a similar header and navigation as the home page. The main content displays three items in cards: a wooden table (brand new, price 500), an iMac (like-new, price 2000), and AirPod Pro 2 (like-new, price 400). Each card includes a thumbnail image, the item name, its condition, price, and a brief description. Below the cards, there are horizontal scrollable sections showing other items: a collection of postage stamps, a small grey object, and a book.

Item page

Welcome to the Bartering System

Search Search

HOME ITEMS TRANSACTION INFO Welcome, Eisen



Duck Lamp

Price: 120

Details: It's a cute duck lamp. Doesn't work 

[Start Transaction](#)

Contact Us About FAQs

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Item detail page

Welcome to the Bartering System

Search Search

HOME ITEMS TRANSACTION INFO Welcome, Eisen



Duck Lamp

Price: 120

Details: It's a cute duck lamp. Doesn't work 

[Start Transaction](#)



[99% NEW] Autonomous table



Knife set

About FAQs

© Website designed by Vegetable Dog Team. Last updated 17/08/2023.

Start transaction

TRANSACTION PAGE

Search Search

[HOME](#) [ITEMS](#) **TRANSACTION** [INFO](#) Welcome, Khoa

Transaction

All

- Knife set
- Macbook air M2
- Duck Lamp
- [HOT] Virtual ...
- [99% NEW] Auton...

Details

Current status: Finish

Product:

\$400

\$400

User information:

Name: Eisen
Email: eisen@gmail.com

Rating: ★★★★☆

Review: No reviews yet

[Leave a review](#)

TRANSACTION PAGE

Search Search

[HOME](#) [ITEMS](#) **TRANSACTION** [INFO](#) Welcome, Khoa

Transaction

All

- Knife set
- Macbook air M2
- Duck Lamp
- [HOT] Virtual ...
- [99% NEW] Auton...

Details

Hello, my name is Khoa. Your knife set looks really nice. Are you willing to trade?

No

I mean yes

hello

?

ok

hello

[View Details](#)

Product:

\$400

\$400

Rating: ★★★★☆

HOME

ITEMS

TRANSACTION

INFO

Welcome, Eisen

Our Story

Hi, We are the Vegetable Dog Team. Our bartering system website is located here. We have a great opportunity to create our own website. Our adventure started with a common goal: to try our best to make this website. We made this concept a reality through countless cups of coffee, brainstorming meetings, and late-night coding marathons. Our platform is more than simply a website; it is a symbol of our commitment, a manifestation of our enthusiasm, and – most importantly – This has further deepened our understanding of teamwork. We appreciate you coming along for the journey. Together, let's trade, save, and sustain!

FAQs

Question: What is a bartering system?

- Answer: A bartering system is an online platform where users can exchange goods or services without the use of money.

Question: How do I list my items for exchange?

- Answer: You can list your items by creating an account, logging in, and following the steps to upload the item details and images.

Question: How do I find items I want to exchange for?

- Answer: You can search for items using the search function on the website, or you can browse through the categories to find items that interest you.

Question: Is there a fee for using the bartering system?

- Answer: Our bartering system is free to use for both listing and exchanging items.

Info page: our story and FAQs

- Answer: You can search for items using the search function on the website, or you can browse through the categories to find items that interest you.

Question: Is there a fee for using the bartering system?

- Answer: Our bartering system is free to use for both listing and exchanging items.

Question: How do I ensure my privacy when exchanging items?

- Answer: Our platform allows you to exchange contact and shipping information privately with the other party involved in the trade.

Contact Us

SEND US EMAIL

Email address

Name

Phone Number

Message

Info Page: Feedback form

[HOME](#)
[ITEMS](#)
[TRANSACTION](#)
[INFO](#)
Welcome, Eisen

Eisen's Profile

Email: eisen@gmail.com

[Upload Item](#)

Your current available products:

Product Name	Image	Price	Details	
[99% NEW] Autonomous table		1000	Height-adjusted table!! Get one now Left in stock: 01	Cancel
Knife set ↗		400	Used. Still in good shape. Preserved and sharpen, ready to use	Cancel
Samsung Galaxy Tab S8		1000	Used for three days	Cancel
Old clothing		100	Doesn't fit me anymore. For children age 3-12	Cancel

[Profile page](#)

2-minute video showcase

https://www.youtube.com/watch?v=nF_pviVfST4

Reflections

Khoa

Even though the workload becomes heavier towards the end of the semester, group communication still remains consistent. We have a clear plan for sprint two, including new features, testing, and releasing the first and second versions of the app. The tasks are challenging, yet with the help of everyone, I manage to finish it on time and deliver results. In sprint two, I find myself doing a lot of code reviewing and refactoring to make sure the code is well maintained and minimize duplicate codes, as well as adding appropriate comments to make it more readable. I'm grateful for the team's collaboration, communication, and patience and I have learned a lot about teamwork and overcoming challenges.

Eisen

I was so glad that I could work in this team through this project. Sometimes I was so confused about some code or some feature how to achieve it, they can teach me in patience. In addition, we also have clear plans and great communication during the project. When we prepared the sprint 2 interview, we planned to hold a mock interview to measure each part and confirm the code and application. I am so grateful for our collaboration and communication that I believe that it was a good chance to improve myself and understand what area I have to learn more in the IT field.

Christina

We began by evaluating our sprint 1 achievements, admiring successes, and determining areas for improvement. This introspection laid the groundwork for our upcoming tasks. With deeper cooperation and more detailed communications through the sprint highlighted our

team's flexibility. Every team member's input was valued, which fostered a sense of joint ownership. Integrating comments from Sprint 1 was quite the challenge. Some caused us to rethink our strategy, while others resulted in simple tweaks. This remark emphasized the importance of our journey's constant progress. This sprint was eye-opening for me. I realized the value of patience, the need for open communication, and the necessity of backup plans. There were difficult days, but the team's continual backing was a source of inspiration.

Bruce

This endeavor made me recognize where I needed to improve in the IT industry. We began by evaluating our sprint 1 results, recognizing successes and noting areas for growth. Following sprints stressed teamwork, open communication, and appreciating everyone's participation. Adapting to Sprint 1 input was difficult yet worthwhile. This taught me the value of patience, open communication, and contingency planning. Despite the difficulties, the team's constant support was inspiring. I'm grateful to have worked with this team. Their patience in teaching when I struggled with codes or features was invaluable. We had a clear project plan and robust communication.

Nate

Reflecting on our journey through this project, I've come to appreciate the growth and learning that have taken place. As the semester progressed, the workload intensified, but our group's communication and cohesion remained steadfast. In Sprint Two, I found myself tackling challenging tasks, particularly in the realms of code reviewing and refactoring, all in the pursuit of a well-maintained codebase. Adding clear comments for readability became a priority. What stands out most to me is the collective patience and support of our team. Whether grappling with complex code or navigating unfamiliar territory, we always had each other's backs. This experience has taught me the value of teamwork, patience, and effective communication. It's been a transformative journey, and I'm grateful for the opportunity to be a part of it.