

CSCE 5430: Software Engineering

Sprint-1 Report

Student Trading Connection

Group Number

8

Team Member

Member ID

Kishan Kumar Zalavadia

11685261

Ajay Jatprol

11689329

Gowtham Sai Lendhra Narayanam

11709752

Pavanipriya Vuppalapati

11661784

Mohammed Shakeel

11701737

Scrum Master: Kishan Kumar Zalavadia



GitHub: https://github.com/Kishan-Kumar-Zalavadia/Student_Trading_Connection



GitHub Project Board: <https://github.com/users/Kishan-Kumar-Zalavadia/projects/2/views/1>

Progress along with the Project Sprints - Sprint 1

During Sprint 1, our team had a clear set of objectives, which primarily included the completion of the first two user stories. We are pleased to report that not only were these goals met successfully, but the sprint also proceeded without any notable deviations from the initial plan.

Planned Objectives:

Implement "Separate Portals for Buying and Selling" with distinct user interfaces to cater to user intentions.

Developed the "Seller Contact Information Access" feature for student buyers to facilitate communication with sellers.

Additional Achievements:

In addition to the planned objectives, our team also successfully created a basic registration and login page during Sprint 1, further enhancing the platform's functionality.

This addition offers users a seamless way to create accounts, log in, and access the platform's features.

Deviation from Plan:

We are pleased to report that there were no significant deviations from our planned objectives during Sprint 1. The project progressed smoothly, and the team's efforts aligned with the initial sprint goals.

This successful sprint sets a positive precedent for the project, and we are motivated to continue our development journey in Sprint 2, building upon the strong foundation established during Sprint 1.

Scrum Meetings in Sprint 1: Dates and Summaries:

<u>Scrum Meeting</u>	<u>Date, Time</u>	<u>Medium</u>	<u>Scrum Meeting Summary</u>
Scrum Planning	09/25/2023 - 10:10	In-Person	<ol style="list-style-type: none"> 1. Discuss Project Workflow. 2. Decide on tasks and assign responsibilities. 3. Git Branch Management Guidelines: Guidelines were provided for branch management, including the use of the "KK_branchName" naming convention to enhance organization and collaboration.
Daily Scrum	09/28/2023 - 09:30	Google Meet	<ol style="list-style-type: none"> 1. Done with analyzing the database: We've finished the process of analyzing the database and determining column names and table structures. 2. Working on creating the database: We're currently working on building the database using MySQL, which involves setting up tables and organizing data.
Daily Scrum	09/29/2023 - 09:30	Google Meet	<ol style="list-style-type: none"> 1. Done with creating the database: The process of creating the MySQL database is finished. 2. Working on the backend of the login and register pages: We are currently in the process of building the backend functionality for the login and register pages using Spring Boot controllers, services, and Spring Data JPA for seamless database interactions.
Daily Scrum	10/02/2023 - 09:30	In-Person	<ol style="list-style-type: none"> 1. Done with the backend for login and register pages. The development of the backend functionality for the login and register pages is finished, including handling user authentication and registration. 2. Working on the front end of the login and register pages. We are currently in the process of building the frontend for the login and register pages using the Angular framework. This includes designing the user interface and ensuring a smooth and responsive user experience.
Daily Scrum	10/03/2023 - 09:30	Google Meet	<ol style="list-style-type: none"> 1. Done with frontend for the login and register pages. The development of the user interface for the login and register pages is finished, ensuring a user-friendly and responsive experience. 2. Working on the backend for user story 1: We are currently working on the backend functionality for user story 1, which involves tasks related to database interaction, business logic, or other backend processes to fulfill the user's requirements.
Daily Scrum	10/04/2023 - 09:30	Google Meet	<ol style="list-style-type: none"> 1. Done with backend for user story 1: The development of the backend functionality for user story 1 is finished, ensuring that the specified requirements have been implemented. 2. Working on the backend for user story 2. We are currently working on the backend functionality for user story 2, addressing the specific tasks and requirements associated with this user story.
Daily Scrum	10/05/2023 - 09:30	Google Meet	<ol style="list-style-type: none"> 1. Done with backend for user story 2: The development of the backend functionality for user story 2 is finished, ensuring that the required features and tasks have been implemented. 2. Working on the frontend for user story 1: We are currently working on the frontend of user story 1, focusing on designing and implementing the user interface and user experience to meet the specified requirements.
Daily Scrum	10/06/2023 - 15:00	In-Person	<ol style="list-style-type: none"> 1. Done with frontend for user story 1: The frontend development for user story 1 has been successfully finished, ensuring that the user interface and user experience for this story are fully implemented. 2. Working on the frontend for user story 2:

			We are currently continuing our work on the frontend of user story 2. This may involve further refinements, enhancements, or additional features to meet the specified requirements.
Daily Scrum	10/09/2023 – 09:30	Google Meet	1. Done with frontend for user story 2: The frontend development for user story 2 has been successfully finished, ensuring that all required user interface components are in place. 2. Working on styling components: Currently, the focus is on styling the components to enhance the visual presentation and user experience. This phase involves applying CSS or other styling techniques to make the user interface more appealing and user-friendly.
Daily Scrum	10/10/2023 – 09:30	Google Meet	1. Done with CSS touch-up: We made the final adjustments to the CSS (Cascading Style Sheets) to refine the visual appearance and presentation of the project. This step focuses on polishing the user interface and improving the overall aesthetics. 2. Working on final Integration: We are currently in the process of completing the integration phase, which involves bringing together various components or systems to ensure they work seamlessly as a whole. This step typically precedes the final testing and deployment stages.
Daily Scrum	10/11/2023 – 09:30	Google Meet	1. Done with final integration: The process of integrating various components or systems has been successfully completed, ensuring they work together seamlessly. This is a significant milestone in the project's development lifecycle.
Sprint Review	10/12/2023 – 09:30	In-Person	1. In our Sprint-1 review meeting, we met our goals, including user stories development, bug fixes, and UI enhancements. The Product Manager provided positive feedback, guiding our next steps. We're motivated for Sprint-2.

Tasks assigned to each member:

All the tasks below are self-assigned tasks based on one's interest.

Kishan Kumar	Ajay	Gowtham	Pavanipriya	Shakeel
Setup Project Folder	Watching video on Angular.	Watching video on Angular	Watching videos on GitHub and Git	Watching videos on CSS.
Initialize file setup	Watching video on Spring-Boot	Watching video on Spring-Boot	Understanding about the project workflow	Understanding Git commands.
Create database.	Learning Git commands.	Learning Git commands.	Learning required technologies for project implementation	Watching angular videos to understand the front end
Implement login feature in backend	Work on CSS for registration page.	Work on the styling of the home page where all products are listed.	Figuring out the attributes required for the tables in the database.	Understanding how to use VS Code to push in GitHub.
Implement registration feature in the backend	Initial setup in GitHub (create a branch)		Designing the UI for the front end.	
Creating login page frontend using angular.	Download required applications like		Implement CSS for the login page.	

	Angular and MySQL.			
Creating registration page frontend using angular.	watched a YT video for login and registration forms using angular and java spring boot rest authentication API.		Work on styling of individual product pages.	
Backend - Database Connection	created use case and sequence diagram for a better understanding of the project.			
Frontend – Backend Connection	created a navigation bar for the login page.			
Testing “post” and “get” HTTP requests for login requests.	tested the navigation bar script and inspected the part.			
Testing “post” and “get” HTTP requests for the registration request.				
Created separated pages for buyer and seller - frontend				
Implemented backend to get the product details from the database.				
HTTP request testing for the product table in database.				
Developed front end to list the product to buy and connected to backend.				
Implemented a button for each product which gives the sellers information.				
Worked in basic CSS for all the pages.				
Integration testing				

Sprint-1 Milestones: User Stories and Descriptions:

Project Workflow:

The implementation of the user story involved a comprehensive project workflow:

- 1. Technology Stack:** Angular for the frontend, Spring Boot for the backend, and MySQL for the database.
- 2. Pages and Features:** Different pages were developed within each portal to support specific actions:
 - **Login Page:** Allows users to log in.
 - **Registration Page:** Permits user registration.
 - **Buy Page:** Provides functionalities for buying products.
 - **Sell Page:** Offers features for selling items.

- **Profile Page:** Allows users to manage their profiles.
 - **Seller Details Page:** Offers details about sellers.
3. **Data Flow:**
- **Angular Frontend:** Handles the user interface and user interactions.
 - **Spring Boot Backend:** Manages the application logic and data processing.
 - **MySQL Database:** Stores and retrieves data.
4. **Data Communication:**
- **HTTP Requests:** Spring Boot communicates with the Angular frontend through HTTP POST and GET requests.
5. **Controllers and Services:**
- **Controllers:** Spring Boot controllers handle HTTP requests and route them to the appropriate services.
 - **Services:** Spring Boot services manage business logic and interact with external data sources, including the MySQL database.
6. **Workflow:**
- Data flows from the user interface in Angular to Spring Boot using HTTP requests.
 - Spring Boot controllers route requests to the relevant services.
 - Spring Boot services handle business logic and interact with the MySQL database.
 - MySQL Database stores and retrieves data efficiently.
 - The processed data is presented in the frontend UI, allowing users to interact with the system.

User Story-1:

As a user, I want to have separate portals - one for buying and one for selling with different UI, so that I can distinguish between them and perform specific actions based on my intentions.

Implementation:

- **Frontend Interface:** The buy and sell pages are developed using Angular, offering distinct, user-friendly interfaces for buying and selling activities.
- **Data Interaction:** Information related to items available for purchase and those listed for sale is efficiently transferred between the frontend and the backend MySQL database. This data exchange is achieved through HTTP requests, enabling a smooth and responsive experience.

Explanation:

- **Separate Portals with Different UI:** One of the unique elements is the creation of distinct portals for buying and selling. These portals offer users separate, customized user interfaces, ensuring that the buying and selling experiences are tailored to their specific needs and intentions.
- **User-Driven Intention:** The project emphasizes user-driven intentions, allowing users to choose their actions based on their goals. Whether they aim to buy or sell, the system provides a clear and intuitive path for users to follow, enhancing the overall user experience.
- **Data Flow Efficiency:** The implementation prioritizes data flow efficiency. Data moves seamlessly from the front end to the back end through HTTP requests, ensuring that users can perform actions

without delays or interruptions. This efficiency plays a significant role in providing a responsive user experience.

- **Controller-Service Interaction:** Spring Boot controllers and services play a pivotal role in handling user interactions and data processing. The clear division of responsibilities between controllers and services ensures that each component operates efficiently, streamlining the user experience.

User Story-2:

As a student buyer, I want the student seller's contact information, so I can contact the seller easily for any queries.

Implementation:

Individual Seller Details Retrieval:

- Each product is associated with its respective seller, and seller details are linked to the product.
- Seller details for each product are retrieved from the database by utilizing the unique seller ID and product ID associated with that specific product.
- This retrieval process ensures that buyers can access accurate and specific information about the seller of any product of interest.

Explanation:

- **Contact Information Visibility:** Contact information of student sellers, such as email addresses or contact forms, was made visible to student buyers. This facilitates easy communication between buyers and sellers, enhancing the overall user experience.
- **Communication Mediums:** In addition to contact details, various communication mediums, such as email, give users multiple options for reaching out to sellers.
- **Query Resolution:** By providing direct access to seller contact information, the implementation ensures that student buyers can easily contact sellers for any queries or clarifications, promoting efficient query resolution.
- **User-Friendly Interface:** The contact information is integrated into a user-friendly interface, making it intuitive for student buyers to initiate contact with sellers. The implementation strives to minimize friction in the communication process.

Sprint-2 Focus: User Stories and Revised Goals:

In Sprint-2, our primary focus is to elevate the user experience and introduce two compelling features tailored to our student community:

"In-Person Inspection Request" for Student Buyers:

We're enabling student buyers to send "In-Person Inspection Requests" to sellers. This feature empowers students to physically evaluate a product before making a purchase, ensuring informed decisions.

Group Purchases for Educational Resources:

Our platform will offer "Group Purchases" for educational resources, with a specific focus on e-books. This feature promotes affordability and collaboration, allowing students to access essential products at reduced costs.

Revised Goals for Sprint-2:

As we embark on Sprint-2, our primary goals are straightforward and user-centric:















- Successfully implement the above user stories to enhance the user experience.
- Ensure the flawless functionality of these features and maintain a user-friendly interface.
- Continuously optimize the platform's performance to deliver a seamless and responsive user experience.
- Prioritize code quality by writing cleaner and more readable code.
- Enhance the visual appeal of the user interface to create an attractive and engaging experience for our users.

GitHub Project Page:

 GitHub Project Board: <https://github.com/users/Kishan-Kumar-Zalavadia/projects/2/views/1>

List of Issues worked on:

- Completed Issues in Sprint-1:

<input type="checkbox"/>	8 Open ✓ 26 Closed	Author ▾	Label ▾	Projects ▾	Milestones ▾	Assignee ▾	Sort ▾
<input type="checkbox"/>	✓ Setup Project Folders spike #8 by Kishan-Kumar-Zalavadia was closed 2 weeks ago 🔗 Sprint-1						
<input type="checkbox"/>	✓ Create a Database in MySQL task #9 by Kishan-Kumar-Zalavadia was closed 2 weeks ago 🔗 Sprint-1						1
<input type="checkbox"/>	✓ learning angular and springboot from youtube to create a user registration page. spike #10 by Ajaysimha29 was closed 4 days ago 🔗 Sprint-1						1
<input type="checkbox"/>	✓ Initial File setup spike #11 by Kishan-Kumar-Zalavadia was closed 2 weeks ago 🔗 Sprint-1						
<input type="checkbox"/>	✓ Sprint Planning Meeting Meeting #12 by Kishan-Kumar-Zalavadia was closed 2 weeks ago 🔗 Sprint-1						1
<input type="checkbox"/>	✓ Create a login and registration page - UI - Fontend task #13 by Kishan-Kumar-Zalavadia was closed last week 🔗 Sprint-1						1
<input type="checkbox"/>	✓ Analyzing the data storage task #14 by Kishan-Kumar-Zalavadia was closed 4 days ago 🔗 Sprint-1						
<input type="checkbox"/>	✓ Design/Search Navigation Bar templates task #15 by Kishan-Kumar-Zalavadia was closed 4 days ago 🔗 Sprint-1						
<input type="checkbox"/>	✓ Learn about the git commands and how it works spike #16 by Kishan-Kumar-Zalavadia was closed last week 🔗 Sprint-1						
<input type="checkbox"/>	✓ Create Basic User database using SprinBoot task #17 by Kishan-Kumar-Zalavadia was closed 2 weeks ago 🔗 Sprint-1						
<input type="checkbox"/>	✓ Implementation of login functionality in backend. task #18 by Kishan-Kumar-Zalavadia was closed 2 weeks ago 🔗 Sprint-1						
<input type="checkbox"/>	✓ Implementation of Registration functionality in backend. task #19 by Kishan-Kumar-Zalavadia was closed 2 weeks ago 🔗 Sprint-1						
<input type="checkbox"/>	✓ Testing the http post requests for login and registration. task #20 by Kishan-Kumar-Zalavadia was closed 2 weeks ago 🔗 Sprint-1						1
<input type="checkbox"/>	✓ Connecting frontend with backend task #21 by Kishan-Kumar-Zalavadia was closed last week 🔗 Sprint-1						
<input type="checkbox"/>	✓ Learning about Git Commands and trying it out spike #22 by pavani7695 was closed 4 days ago 🔗 Sprint-1						

<input type="checkbox"/>	🔗 styling user registration page task	#23 by Ajaysimha29 was closed 5 minutes ago 📌 Sprint-1	
<input type="checkbox"/>	🔗 creating Unified Modeling Language diagrams for better understanding the whole project scenario documentation	#24 by Ajaysimha29 was closed 2 days ago 📌 Sprint-1	
<input type="checkbox"/>	🔗 Working on product details and seller details page task	#25 by Kishan-Kumar-Zalavadia was closed 4 days ago 📌 Sprint-1	
<input type="checkbox"/>	🔗 Work on styling part of login and register page task	#26 by Kishan-Kumar-Zalavadia was closed 3 minutes ago 📌 Sprint-1	
<input type="checkbox"/>	🔗 Work on styling of Home page where all products are listed	#27 by Kishan-Kumar-Zalavadia was closed 4 minutes ago 📌 Sprint-1	
<input type="checkbox"/>	🔗 Work on styling of individual product page task	#28 by Kishan-Kumar-Zalavadia was closed 5 minutes ago 📌 Sprint-1	
<input type="checkbox"/>	🔗 testing user registration page task	#30 by Ajaysimha29 was closed 4 days ago	
<input type="checkbox"/>	🔗 work on CSS part for login page task	#33 by pavanipriya7695 was closed 4 minutes ago 📌 Sprint-1	
<input type="checkbox"/>	🔗 executed the user stories in local repository spike	#34 by Ajaysimha29 was closed 4 minutes ago	
<input type="checkbox"/>	🔗 wrote html and css script for login page	#35 by Ajaysimha29 was closed 2 minutes ago	1

• Work to be completed in Sprint-2:

<input type="checkbox"/>	🔗 As a student buyer, I want to send an" In-person inspection request" to seller with instant purchase, so that i can examine the product before making a purchase decision and purchase it on the spot if I like it. User stories	#3 opened 3 weeks ago by Ajaysimha29 📌 User Stories
<input type="checkbox"/>	🔗 As a student user, I want the option to participate in group purchases for educational resources like e-book, so that I can access these materials at a lower cost. User stories	#4 opened 3 weeks ago by pavani7695 📌 User Stories

Database Schema:

Table-1: User

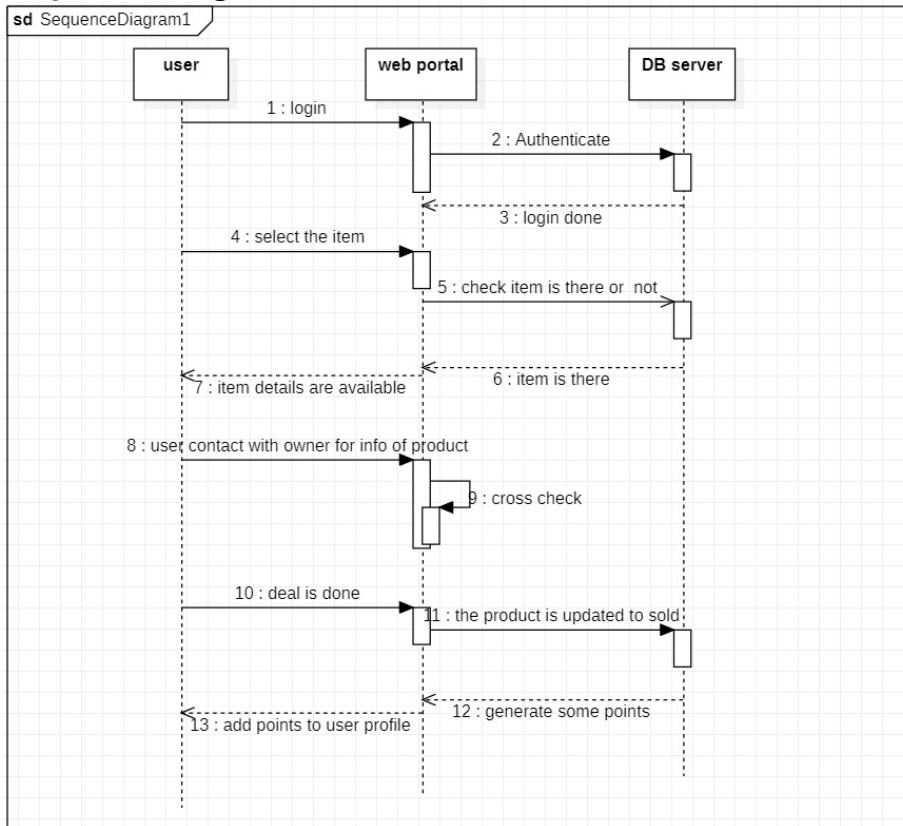
Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
address	varchar(255)	YES		NULL	
email_id	varchar(255)	YES		NULL	
password	varchar(255)	YES		NULL	
phone	varchar(255)	YES		NULL	
profile_level	varchar(255)	YES		NULL	
user_name	varchar(255)	YES		NULL	

Table-2: Product

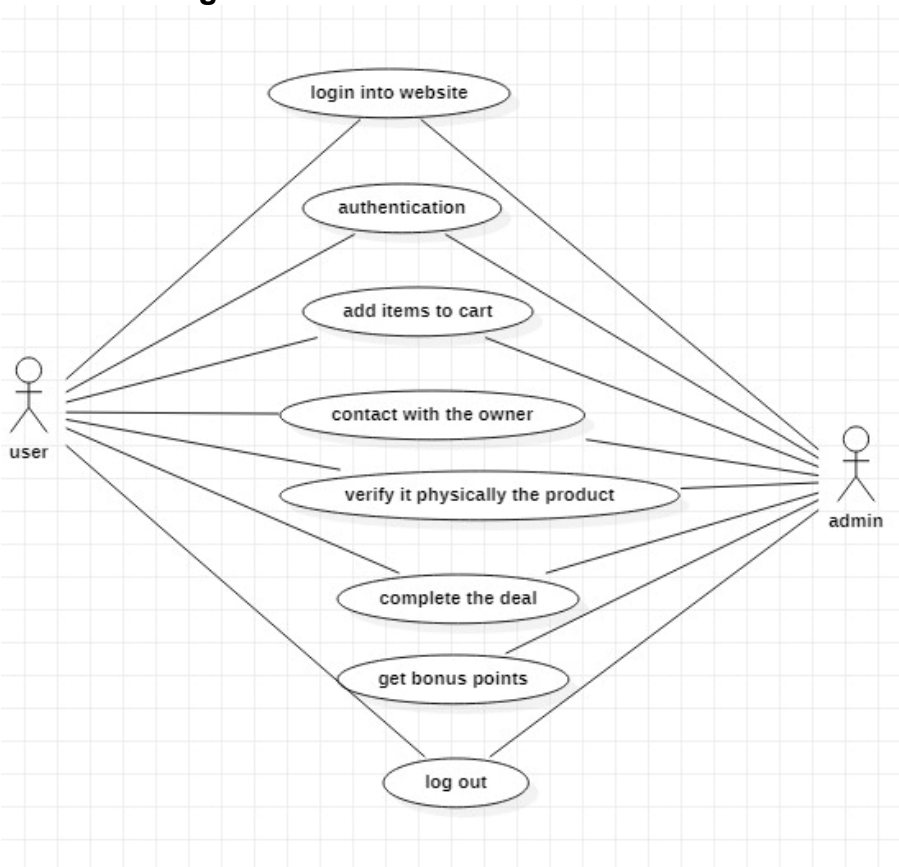
Field	Type	Null	Key	Default	Extra
productid	int	NO	PRI	NULL	auto_increment
category	varchar(255)	YES		NULL	
description	varchar(255)	YES		NULL	
is_group_purchase	int	NO		NULL	
is_in_person_inspection_request	int	NO		NULL	
price	int	NO		NULL	
sellerid	int	NO		NULL	
title	varchar(255)	YES		NULL	

UML Diagrams:

Sequence Diagram:



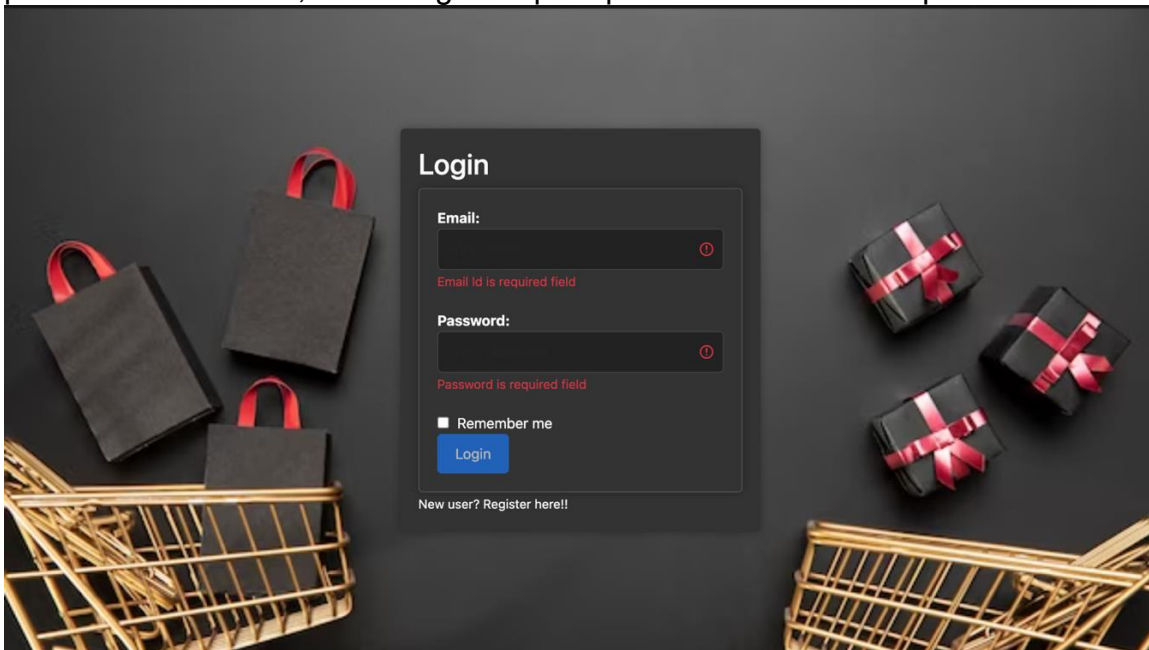
Use case Diagram:



Demo Project Images:

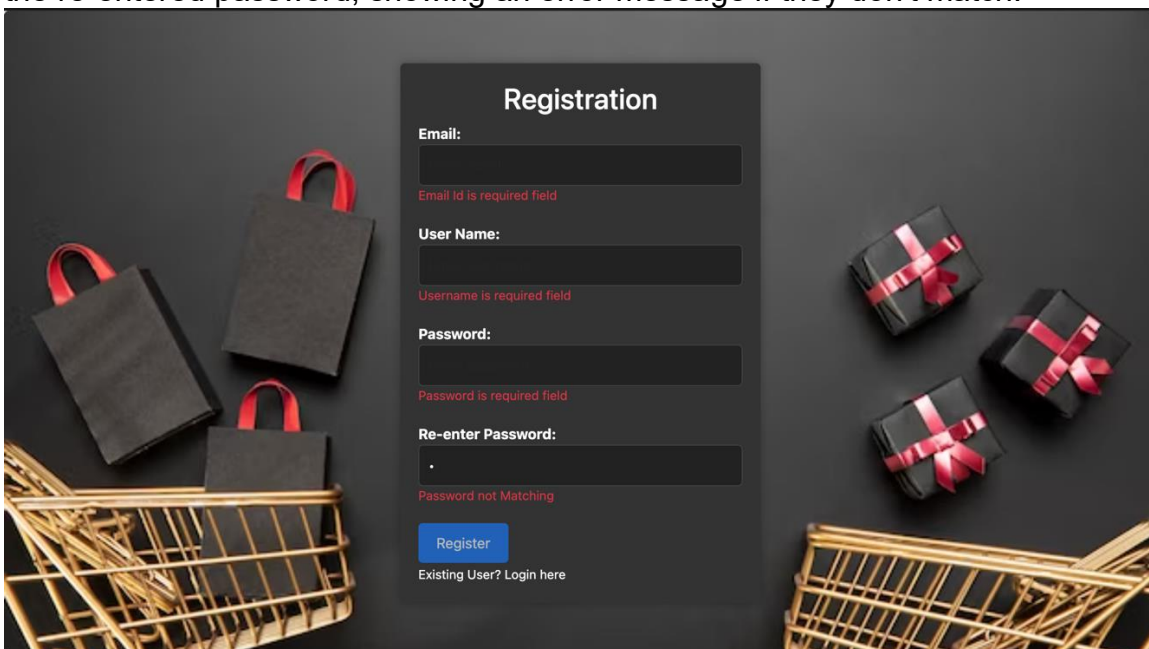
Login Page:

Users must enter their username and password, both of which are marked as required. If they don't provide these values, a message will prompt them to fill in the required fields.



Registration Page:

New users must complete the email, username, password, and password confirmation fields, all marked as required. If they leave any of these fields empty, they'll receive a message instructing them to provide the required information. Additionally, the system checks if the entered password matches the re-entered password, showing an error message if they don't match.



Navbar (User Story 1):

The separate navigation bar is designed to help users easily navigate the e-commerce platform. It contains the following buttons:

"Sell": This button likely leads to a section where users can list their products for sale.

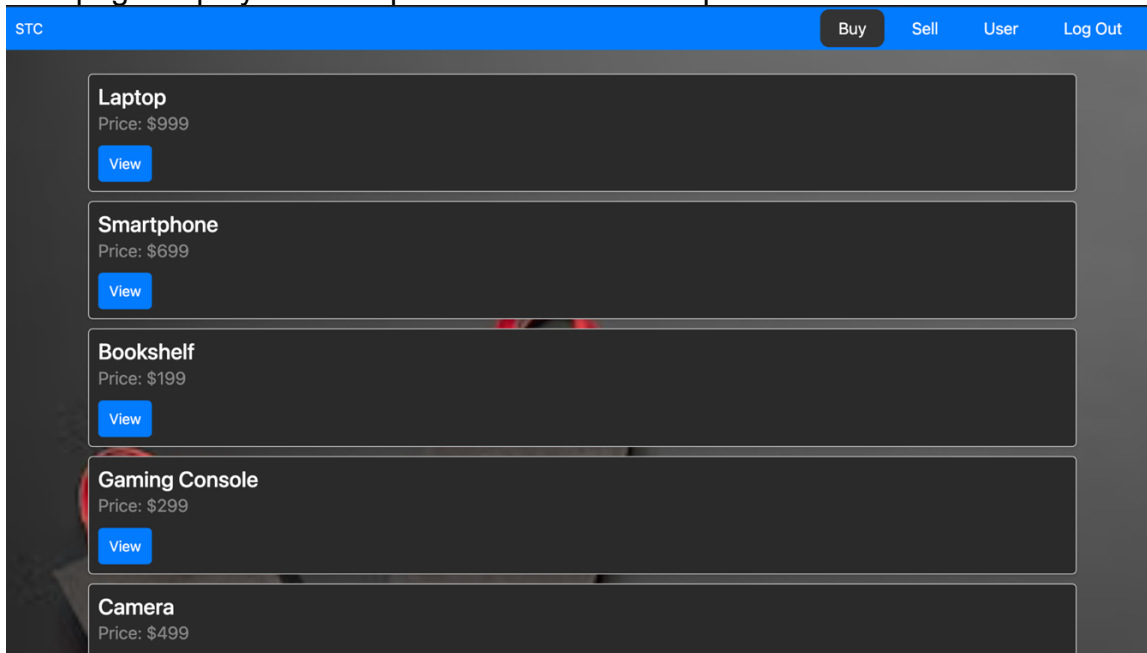
"Buy": It leads users to the buyer's page where they can browse and purchase products.

"Profile": This button may direct users to their user profiles or account settings.

"Sign Out": Clicking this button will log the user out of their account.

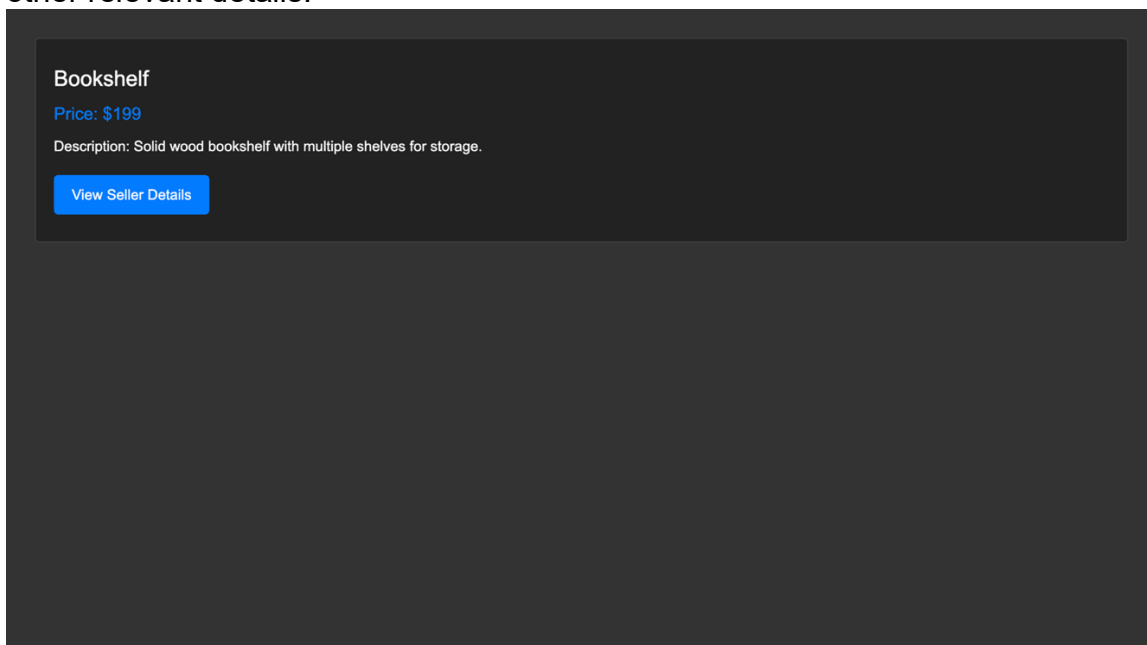
Buyer's Page:

This page displays a list of products available for purchase.



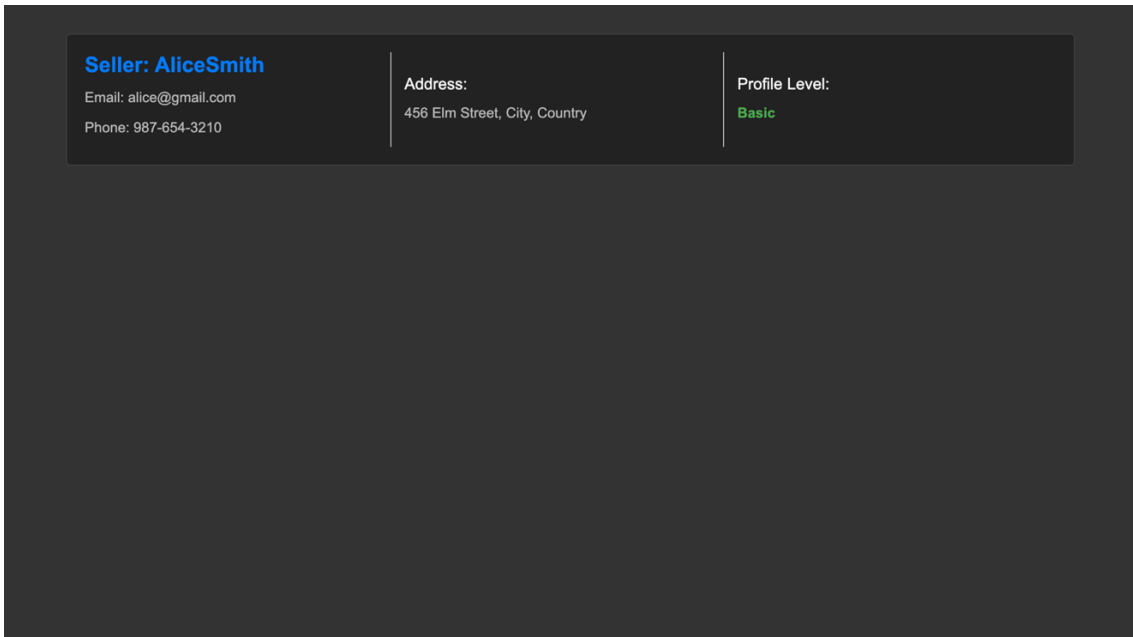
View Product Page:

This page allows users to access more detailed information about a specific product. It provides various options for users, which may include, reading product descriptions, checking prices, and accessing other relevant details.



Seller's Details for a particular product:

For each product, this page provides information about the seller. Users can learn more about the seller's contact details if needed. This feature enhances transparency and trust in the buying process.



Seller's Page:

This page is currently under development and is expected to cater to sellers. It will likely include features and tools for sellers to list and manage their products on the platform, as well as access relevant seller resources.

