

Project schedule and software design

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Overall project schedule: (5 weeks left)

Week 1: Development

Week 2: Development

Week 3: Development

Week 4: Testing and debugging

Week 5: Deployment and final testing

Scrum timings and time: 5pm and for 15 minutes.

Sprint 1: Weeks(1-2) - Development

Goal: Build the basic framework of the web app, including the front-end and back-end architecture, and implement essential functionalities.

Task Breakdown:

Day 1: Set up the development environment, including selecting the appropriate tools and technologies with basic framework.

Day 2-4: Implement user registration and login functionality.

Day 6-7: Set up the back-end architecture, including the database and server-side functionalities.

Day 8-10: Implement user profile creation and editing.

Day 11-14: Implement product listing page with basic search and filtering functionality.

Scrum meetings: Alternate days.

Sprint 2: Week 3 - Development

Goal: Implement additional features and functionalities and refine the design and user interface.

Task Breakdown:

Day 1-3: Implement product detail page with image upload and description fields.

Day 3-6: Implement new features and functionalities, such as user notifications, shopping cart and refine filter searching.

Day 7: Refine the design and user interface based on usability testing.

Scrum Meetings: Alternate Days

Sprint 3: Weeks(4-5) - Testing, debugging and deployment

Goal: Conduct thorough testing and fix any issues or bugs identified during testing.

Task Breakdown:

Day 1: Check if all necessary features are implemented.

Day 2-4: Conduct functional testing to ensure all features and functionalities work as expected.

Day 5-7: Check if server side/database for everything is working properly and fix if any issues.

Day 8-10: Address any issues or bugs identified during testing.

Day 11-12: Deployment/presentation preparation

Day 13: Deployment/presentation.

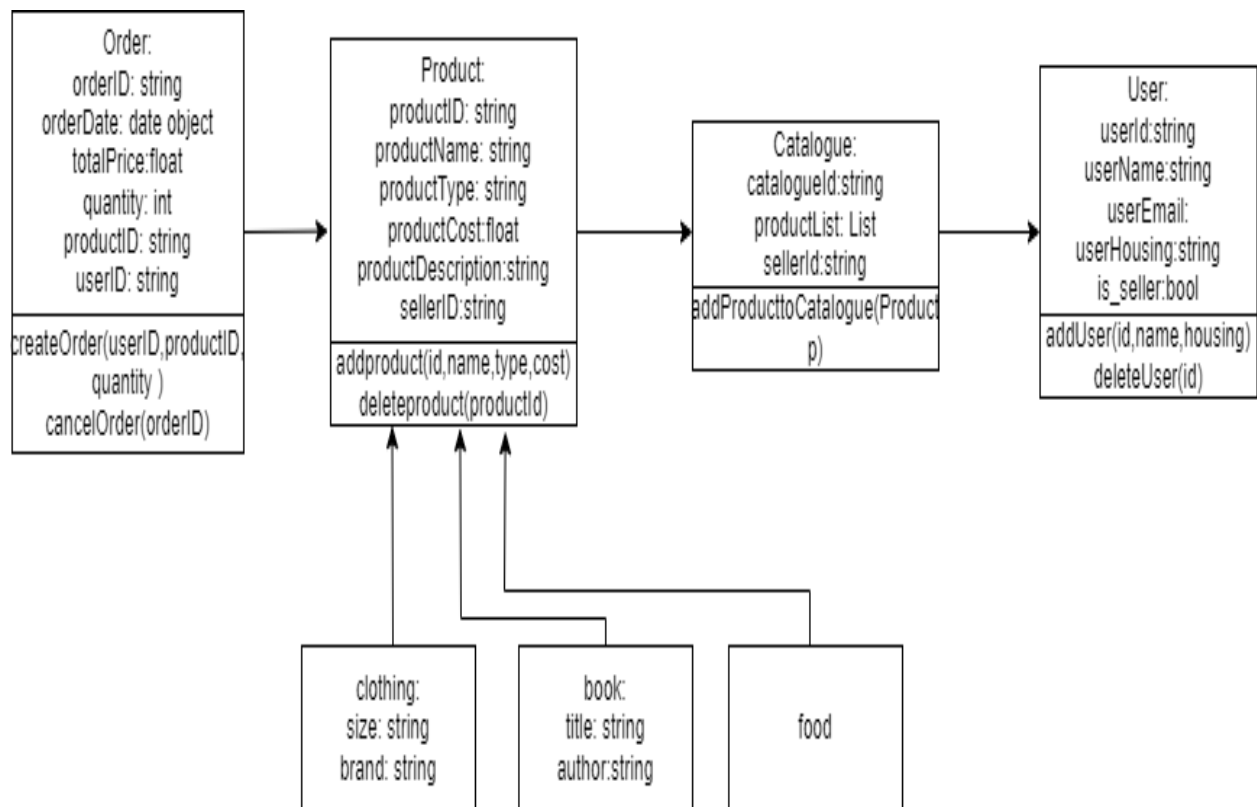
Scrum Meetings: Alternate Days/ Daily since it is the last week

Tool for managing schedule: We plan to use Trello or Jira for project management.

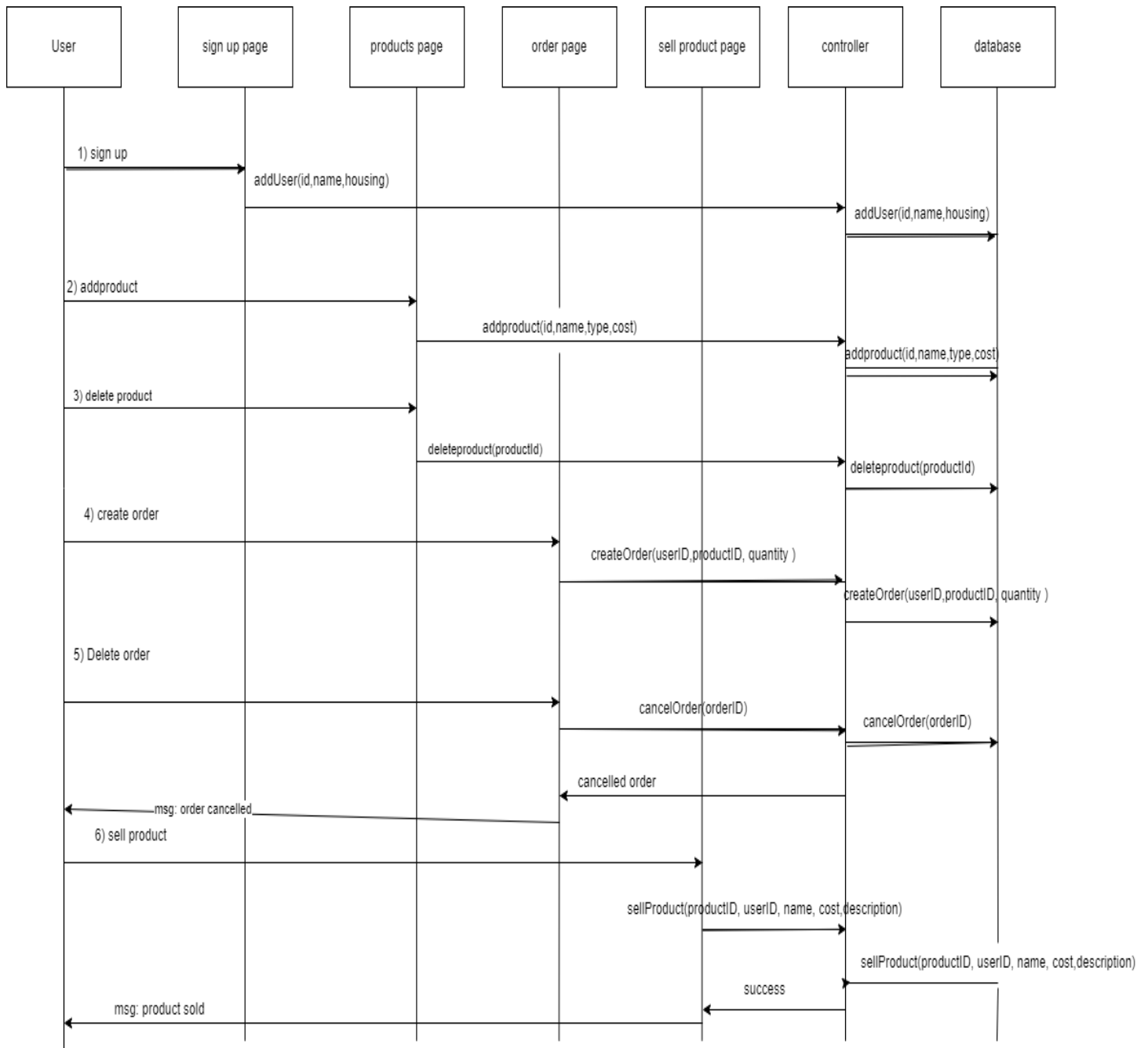
Software design :

Class diagram is a static representation of attributes, methods and their relationships. Sequence diagram represents the dynamic flow of control of different functions. So we made both class diagram and sequence diagram.

Class diagram:



Sequence Diagram:



Design of Components

The different components of our system include:

- **User Interface:** The user interface (UI) is the front-end of the app that users interact with. It includes features such as login/sign-up, search bar, categories, filters, item listing, product details, user profiles, messaging, notifications, and feedback/ratings.
- **Database:** The database is the back-end of the app that stores all user information, product listings, and transaction history. Here we retrieve information and filter items based on user preferences.
- **Payment gateway:** In our web app, we are not implementing a payment gateway since it will be cod.
- **Feedback:** We want to implement customer reviews for users (sellers/buyers) to leave feedback.