An implementation plan, by William

Revised by Simon:

The key to the revision is to remove the learning backend task from William and Jimmy and let them take the frontend work after we established the frontend architecture. By doing that, Joey, Simon, and Jason those who have JS background can move to backend earlier, and still, we have the ability to fix frontend problems.

Week 1:

All team members discuss the details of implementation functionalities of the platform (e.g., user login, product listings, messaging, payment processing).

Simon:

Set up the basic project structure using Node.js, Express.js, and Vue.js.

Establish a GitHub repository. Learning Vue structure with MVVM.

Joey and Jason:

Familiarize themselves with Vue as the primary development environment.

Dedicate time for studying the MVVM architectural pattern, understanding its role in Vue, and how it can guide the design and interaction of our application.

William:

Review the HTML concept and start learning CSS in Vue style.

create the simple webpage for practice.

Tommy:

Study the basic HTML and CSS

Help William build the website

Week 2:

Simon:

Start with Vue.js and build the user interface for the marketplace using Model and View Model of Vue.

Try to Implement user registration and login forms depending on the progress of MVVM and Vue learning. Be ready for Backend and Express.js

Joey and Jason:

Work with Simon on Vue.js.

Collaborate on the establishing the MVVM structure of the front end, focusing on responsive design and user experience. Be ready for Backend and Express.js

Simon, Joey and Jason:  
By discussion, we are setting up Model and View Model from homepage, user information, and search. Login is denied, as we will use Google to login in the later weeks.

William and Tommy:

Continue to learn HTML and CSS.

Working on the main page of the website, should be the part of View from MVVM and Vue. Complete the main structure and layouts of the main page.

Week 3:

Simon:

Develop user authentication and authorization using Node.js and Express.js.

Updates: as we decide to use Google Login, develop user authentication should be familiar with google login this week.

Updates: we now use Firebase for authentication

Start building the backend API endpoints for product listings and user profiles.

Joey and Jason:

Learn Express.js and database interactions.

Help Simon with backend preparations.

Write documentation plan in readme.

William and Tommy:

Continue to work on the frontend, implement View for different webpages created , as depicted in class.

Project Manager next week: Simon

Week 4:

Simon:

Connect the backend with the MongoDB to connect with Models in the backend, following the MVC structure.

Implement CRUD operations for Models.

Joey and Jason:

Start working on Models with Simon.

William and Tommy:

Learning front-end and back-end communication, like ajax. Invoke the back-end interface for information of entities that listed in the ER diagram.

Upload documentation plan in readme.

Thanksgiving Week:

Simon, Joey, and Jason: continue the backend MVC, connecting the Models, and the frontend.

William and Tommy: continue the frontend, make style changes.

Week 5:

All groups focus on implementing advanced features like payment processing, messaging, and notifications.

Finishing the final check and making a peer review with other groups in our class.

Test the project by the MVP.