Create Sprint 1 Planning Document

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Sprint Overview:

During this sprint, we hope to lay the foundation for our whole platform starting with the deployment of our server and database and complete most of the seller-buyer stories. The buyer stories will primarily focus on the development of the seller side which will be a website and it will include registration of the seller, adding and modifying the products in the inventory, and creating and managing different collections of products.

Scrum Master: Bharat Sachdev

Meeting Plan: Tuesdays/Thursdays @ 6:00pm

Risk and Challenges:

 The biggest challenge that we as a team are facing is setting up the database and server. None of us in the team have worked with a proper backend before and have been working on learning the workings of client-server-database interaction. This is also the biggest risk we have on the website side of things since we are comfortable with the actual building of the website and its UI. We hope to get the server and the database setup in the first week and a half of the sprint while simultaneously working on the front end of the website. The second but not so major risk is that we want to have the website end up and running by the end of the first sprint. We do believe, however, that this is doable provided we can overcome the aforementioned challenge of efficient client-server-database communication.

Current Sprint Detail:

User Story #1

As a seller, I would like to be able to register for a SimpleSell account.

#	Description	Estimated Time	Owner
1	Create UI for user registration	6 Hours	Abhi
2	Storing username and password into the database	2 Hours	Mihir
3	Testing the registration process	2 Hours	Sanjith
4	Testing password strength	4 hours	Shivam

Acceptance Criteria:

- Given that the UI is implemented correctly, the finished sign-up screen has well-defined margins and a correct color scheme.
- Given that the UI is implemented, a user can input information like name, email, and password.
- Given that the server and the database are set up correctly, the data inputted by the user is stored in the database as the login details of the seller.
- Given that the password is strong enough only then will the user be able to set up a password.

User Story #2

As a seller, I would like to be able to log in using a username and password.

#	Description	Estimated Time	Owner
1	Set up authentication	4 hours	Arjun
2	Set up server and database communications for retrieving seller login information	2 hours	Bharat
3	Create UI for login	4 hours	Sanjith
5	Testing the login process	2 hours	Mihir

Acceptance Criteria:

- Given that the server and the database are set up correctly, one can retrieve data (username and password) from the database.
- Given that the UI is implemented correctly, the entered username and password are displayed correctly.
- Given that the server and database are set up currently, the login process succeeds if the correct username and password are entered.
- Given that the UI is implemented correctly, incorrect and correct login information leads to the distinct outcomes of failure and success.

User Story #3

As a seller, I would like to modify my SimpleSell account details.

#	Description	Estimated Time	Owner
1	Creating the UI for account settings	5 hours	Sanjith
2	Setup server and database communication for fetching seller's current information	5 hours	Bharat
3	Setup server and database communication for storing new seller information	5 hours	Mihir
4	Testing functionality and feel of the process	2 hours	Arjun

Acceptance Criteria:

- Given that the server and database are implemented properly, we can fetch the seller information from the database.
- Given that the UI is implemented correctly, the correct seller information that is fetched from the database is displayed correctly.
- Given that the server and database are implemented correctly, the sellers will be able to change their name, email, and password.

User Story #4

As a seller, I would like to be able to add products to the inventory.

#	Description	Estimated Time	Owner
1	Creating the UI to add products	6 hours	Abhi
2	Connect the parsing algorithm to the UI	2 hours	Shivam
3	Create Product objects and store them in the database	3 hours	Arjun
4	Testing the functionality of the additional products feature	2 hours	Mihir

 Acceptance Criteria:

- Given that the UI is implemented correctly, sellers will be able to add products to their inventory with the correct product information.
- Given that the parsing algorithm is implemented correctly, the information of the product will be stored in the database.
- Given that the server and database are implemented correctly, the information of the current products can be fetched correctly to be displayed.
- Given that the UI is implemented correctly, the seller can view the product in his inventory tab.

User Story #5

As a seller, I would like to be able to delete products from the inventory.

#	Description	Estimated Time	Owner
1	Create the inventory view web page	5 hours	Sanjith
2	Fetch and display the product information from the database	7 hours	Mihir
3	Removing the product from the database	2 hours	Arjun
4	Testing	2 hours	Abhi

Acceptance Criteria:

- Given that the UI is implemented, sellers can choose to delete products from their inventory.
- Given that the server and database are implemented correctly, the information of the current products can be fetched correctly to be displayed.
- Given that the server and database are implemented correctly, the product will be removed from the database.
- Given that the UI is implemented, the seller is notified of success on deleting a product.

User Story #6

As a seller, I would like to be able to accept orders.

#	Description	Estimated Time	Owner
1	Creating the UI for pending orders page and accepting/declining orders	6 hours	Abhi
2	Setup server and database communication for adding orders to the seller's active orders	5 hours	Bharat
3	Testing functionality	2 hours	Arjun

Acceptance Criteria:

- Given that the UI is implemented, the seller should be able to accept orders.
- Given that the UI is implemented, the seller should be able to decline orders.
- Given that the server and database communication is set up for adding orders, orders can be added to the seller's active orders.

User Story #7

As a seller, I would like to be able to add product descriptions.

#	Description	Estimated Time	Owner
1	Creating UI for adding product description	4 Hours	Abhi
2	Saving, fetching, and displaying the product description from the database	4 Hours	Mihir
3	Creating UI to display the product description	2 Hours	Abhi
4	Testing functionality for product description	2 Hours	Arjun

Acceptance Criteria:

- Given that the UI is implemented, the product description can be added.
- Given that the server and database are set up, the product description should be able to be stored.
- Given that the server and database are set up, the product description should be able to be fetched and displayed.
- Given that the UI is implemented, the product description can be viewed.

User Story #8

As a seller, I would like to mark products as sold out.

#	Description	Estimated Time	Owner
1	Creating UI element for marking as sold out	2 hours	Sanjith
2	Creating a Product view for a sold-out product	3 hours	Abhi
3	Update database	3 hours	Arjun
4	Testing the behavior of the sold-out tag	3 hours	Mihir

Acceptance Criteria:

- Given that the UI is implemented, an item should be able to be marked as sold out.
- Given that the UI for the Product View is implemented, the user can see all the sold out products on a separate page.
- Given that the server and database are implemented correctly, the enum variable in the database should be updated to sold out for the particular product.

User Story #9

As a seller, I would like to create categories.

#	Description	Estimated Time	Owner
1	Creating the UI for adding and deleting categories	4 hours	Sanjith
2	Setup server and database communication for fetching	3 hours	Shivam
3	Setup server and database communication for adding a category to the category list.	4 hours	Bharat
4	Setup server and database communication for deleting categories.	4 hours	Mihir
5	Testing functionality and feel of the process	2 hours	Arjun

Acceptance Criteria:

- Given that the UI is implemented, the seller should be able to add and delete categories.
- Given that the server and database communication is set up, the current list of categories can be fetched.
- Given that the server and database communication is set up, a category can be added to and deleted from the category list.

User Story #10

As a seller, I would like to assign categories to products.

#	Description	Estimated Time	Owner
1	Adding a UI for assigning categories to products to the product UI.	4 hours	Sanjith
2	Setup server and database communication for fetching the current category.	3 hours	Shivam
3	Setup server and database communication for changing the category.	4 hours	Bharat
4	Testing functionality and feel of the process	2 hours	Arjun

Acceptance Criteria:

- Given that the Product UI is implemented, the seller will be able to assign categories to products.
- Given that the server and database communication is set up, the updated categories for the product will be stored in the database.
- Given that the server and database communication is set up, the assigned categories will be correctly fetched and displayed.

User Story #11

As a seller, I would like to give products an SKU (Stock Keeping Unit) number.

#	Description	Estimated Time	Owner
1	Add SKU to the product view	2 hours	Abhi
2	Set up auto-generated numbers for newly added products to the inventory	6 hours	Shivam
3	Storing and fetching the SKU number from the database	4 hours	Bharat
4	Test and Check the generation process	2 hours	Mihir

Acceptance Criteria:

- Given that the product view is implemented, the SKU number will be visible alongside each product.
- Given that the unique auto generated algorithm is created and implemented successfully, each product will have a distinct SKU number.
- Given that the database is set up, the SKU numbers can be stored and fetched from the database.

User Story #12

As a seller, I would like to add my description.

#	Description	Estimated Time	Owner
1	Adding a component to the UI for a seller to add a description of the store and associated products	4 Hours	Abhi
2	Storing and fetching the seller description from the database	5 Hours	Arjun
3	Create UI to display seller description	2 Hours	Sanjith
4	Testing functionality of seller description	2 Hours	Mihir

Acceptance Criteria:

- Given that the UI for seller description is implemented, the seller description can be added and modified from the webpage.
- Given that the server and database communication is set up, the seller description can be stored in the database.
- Given that the server and database communication is set up, the seller description can be fetched from the database when needed.

User Story #13

As a seller, I would like to display my socials.

#	Description	Estimated Time	Owner
1	Creating the UI for my socials page	5 hours	Sanjith
2	Setup server and database communication for fetching seller's current socials	5 hours	Bharat
3	Setup server and database communication for storing edited social information	5 hours	Mihir
4	Testing functionality and feel of the process	2 hours	Arjun

Acceptance Criteria:

- Given that the UI is implemented, the socials can be previewed on the website.
- Given that the server and database communication is set up, the seller's current socials can be fetched.
- Given that the server and database communication is set up, the seller's socials can be edited.

User Story #14

As a seller, I would like to have the contact information of my customers

#	Description	Estimated Time	Owner
1	Create UI to view customer contact information	4 Hours	Abhi
2	Setup server communication to fetch and display the contact details of the customers	3 Hours	Shivam
3	Test the UI and correctness of the display of customer information	2 Hours	Mihir

Acceptance Criteria:

- Given that the server and database communication is set up, the customer's information can be fetched from the database.
- Given that UI is implemented, the seller would be able to view customer information.
- Given that the UI is implemented, the latest customer is listed first.

User Story #15

As a seller, I would like to see my total sales to date.

#	Description	Estimated Time	Owner
1	Creating the UI for total sales under the data analysis drop-down menu	2 hours	Abhi
2	Setup server database communication to fetch the total sales from the database.	4 hours	Shivam
3	Create the UI for the total sales page to display the fetched total sales	4 hours	Sanjith
4	Testing the total sales to date functionality	3 hours	Bharat

Acceptance Criteria:

- Given that the UI is implemented, the total sales page can be viewed.
- Given that the server and database communication is set up, total sales can be fetched from the database.
- Given that the server and database is set up correctly, whenever a new sale is made the total sales will be updated in the database.

User Story #16

As a seller, I would like to see products sold by the unit.

#	Description	Estimated Time	Owner
1	Creating the UI for sales per unit under the data analysis drop-down menu	2 hours	Abhi
2	Setup server database communication to fetch the products sold from the database.	4 hours	Bharat
3	Create the UI for the total sales page to display the fetched products sold by the unit.	5 hours	Sanjith
4	Testing the products sold by unit functionality	3 hours	Shivam

Acceptance Criteria:

- Given that the UI is implemented, the sales per unit page can be viewed.
- Given that the server and database communication is set up, sales for products can be fetched from the database.
- Given that the server and database is set up correctly, whenever a new sale is made the sales for the product will be updated in the database.

User Story #17

As a seller, I would like to be able to specify subproducts within products.

#	Description	Estimated Time	Owner
1	Adding a UI component for assigning subproducts to the product view.	4 Hours	Sanjith
2	Setup server and database communication for fetching current subproducts.	5 Hours	Arjun
3	Setup server and database communication for changing the sub-product label.	2 Hours	Shivam
4	Testing subproduct functionality	2 Hours	Mihir

Acceptance Criteria:

- Given that the UI is implemented, the user will be able to see and assign subproducts to particular products.
- Given that the server and database communication is set up, the sub-products can be fetched from the database.
- Given that the server and database communication is set up, the sub-products can be updated in the database.

User Story #18

As a developer, I would like to be able to update and manage the user database.

#	Description	Estimated Time	Owner
1	Setup the server and functionality for fetch/store requests.	10 hours	Bharat
2	Setup database and data structures and tables.	10 hours	Shivam
3	Setup and test server-database communication for fetching and storing requests.	8 hours	Arjun
4	Test the server-database communication and database storage.	5 hours	Abhi

Acceptance Criteria:

- Given that the server is set up it will be able to appropriately respond to every request it receives.
- Given that the server and database communication is set up, the database can be queried to retrieve and save information.
- Given that the database is set up, the database will have the correct tables.

User Story #19

As a developer, I would like to be able to add or remove users.

#	Description	Estimated Time	Owner
1	Set up the tables for buyers and sellers	4 hours	Shivam
2	Testing adding and removing sellers	3 hours	Mihir
3	Testing adding and removing buyers for a particular seller.	3 hours	Arjun

Acceptance Criteria:

- Given that the tables for buyers and sellers are set up properly, the database can be queried to find buyers and sellers.
- Given that the tables are set up, the developer can add a user to the database tables.
- Given that the tables are set up, the developer can remove a user from the database tables.

Functional Requirements:

1. As a seller, I would like to be able to register for a SimpleSell account.

2. As a seller, I would like to be able to log in using a username and password.

3. As a seller, I would like to modify my SimpleSell account details.

4. As a seller, I would like my password to be reset if I forget it.

5. As a seller, I would like Security Questions to make my account more secure.

6. As a seller, I would like to be able to add products to the inventory.

7. As a seller, I would like to be able to delete products from the inventory.

8. As a seller, I would like to add pictures to products.

9. As a seller, I would like to be able to accept orders.

10. As a seller, I would like to be able to add product descriptions.

11. As a seller, I would like to mark products as sold out.

12. As a seller, I would like to give discounts on the marked price.

13. As a seller, I would like to be able to make custom discount codes.

14. As a seller, I would like to have the contact information of my customers.

15. As a seller, I would like to see abandoned checkouts.

16. As a seller, I would like to create collections of products.

17. As a seller, I would like to create tags for different collections.

18. As a seller, I would like to categorize each product.

19. As a seller, I would like to see total sales.

20. As a seller, I would like to see products sold by the unit.

21. As a seller, I would like to see the average order value.

22. As a seller, I would like to see the total number of orders.

23. As a seller, I would like to see returning customer rate.

24. As a seller, I would like to be able to deny or accept cancellation/return requests.

25. As a seller, I would like to be able to change the price of items in my inventory.

26. As a seller, I would like to be able to view orders per customer.

27. As a seller, I would like to give products an SKU (Stock Keeping Unit) number.

28. As a seller, I would like to add my description.

29. As a seller, I would like to display my socials.

30. As a seller, I would like to be able to specify subcategories of the same products.

31. As a seller, I would like to choose a template that suits my product catalog.

32. As a seller, I would like to choose between grid or list view for my product page.

33. As a seller, I would like to like to set the app icon.

34. As a seller, I would like to change the looks and features of my app.

35. As a seller, I would like to be able to manage my profile.

36. As a seller, I want to accept external payment methods like PayPal.

37. As a seller, I would like to accept debit and credit cards.

38. As a seller, I would like an executable apk as the final product.

39. As a seller, I would like to receive an email notification whenever I get an order.

40. As a buyer, I would like to be able to create an account on the seller's app.

41. As a buyer, I would like to be able to reset my login details if I forget them.

42. As a buyer, I would like to be able to order things from the seller's app.

43. As a buyer, I would like to be able to look at my previous orders and purchases.

44. As a buyer, I would like to be able to use multiple payment interfaces.

45. As a buyer, I would like to be able to request a cancellation of my purchases.

46. As a buyer, I would like to be able to provide a reason for my cancellation request.

47. As a buyer, I would like to have access to the contact information of the seller.

48. As a buyer, I would like to get notified when the seller accepts/denies my order.

49. As a buyer, I would like to add addresses to my address book.

50. As a buyer, I would like to view my cart.

51. As a buyer, I would like to review my order before checking out.

52. As a buyer, I would like to view my purchase history.

53. As a buyer, I would like to delete addresses from my address book.

54. As a buyer, I would like to be able to search for specific items.

55. As a buyer, I would like to be able to see the pricing for the product on the search page.

56. As a buyer, I would like to keep track of products that I am interested in.

57. As a buyer, I would like to be able to apply discount codes.

58. As a developer, I would like to be able to update and manage the user database.

59. As a developer, I would like to be able to add and remove users.

60. As a developer, I would like to be able to customize and make changes to the available templates.

61. As a developer, I would like to potentially add more templates.As a developer, I would like to add more templates.

Non-Functional Requirements:

Architecture and Performance:

We plan to develop the front end and back end separately, as it would help us divide our workload and effectively split tasks between our teams. For the front end, we plan to use HTML/CSS and JS. The backend will be based on a Java server and SQL as our database.

Security:

Security is at the core of SimpleSell. We will use various methods to protect the privacy of our users. We will verify all user input by checking against regular expressions to prevent SQL injections. All user passwords will be encrypted. A seller will only be able to access and modify his or her online shop. A seller can only view a buyer's username, order ID, and contact details. The transaction itself will be handled by secure platforms such as PayPal, Google Pay, etc.

Usability:

The platform interface should be easy to navigate and use from the user's perspective. The user interface should also be well designed so that the customer can navigate the website with ease and convenience. The user should be able to design their application to their satisfaction using the website. Similar platforms do not provide customers with the functionality to develop custom apps to their needs.

Hosting/Deployment:

The frontend may be hosted on GitHub, while we can deploy the backend on a service such as AWS. The frontend and backend may also be able to update and deploy separately. We may use SQL as our database.