



## **Sprint 2 Planning Document**

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### **Sprint Overview:**

During this sprint, we hope to lay the foundation for our mobile platform starting with exploring android studio and it's communication with our MySql database. Once this first step is done, we can move on to implementing the many Buyer-related user stories and make sure that the Buyers can have a smooth in-app experience while making sure that the database and seller end gets updated and changed to accommodate Buyer activities. We also aim to make a few touch ups on the Seller side of the website and expand our role as developers through developer stories that allow us to better manage our code base for both, frontend and backend.

**Scrum Master:** Shivam Bairoliya

**Meeting Plan:** Tuesdays/Thursdays @ 6:00pm

### **Risk and Challenges:**

The biggest challenge that we will face is setting up communication between the android app and our server and database. Also, none of our team members have worked with the android platform and therefore, getting accustomed to the android development environment will be a big task. We would also like our app to update in real time with the changes done on the seller platform and this would be a very big challenge that we need to overcome in order to build a robust platform. So, we believe we can deliver on our promised user stories, once the hurdle of setting communication between the android app and our server and database properly is overcome.

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## Current Sprint Detail:

### User Story #1

As a seller, I would like to be able to reset my password.

#	Description	Estimated Time	Owner
1	Create UI for reset password	6 Hours	Abhi
2	Storing password changes in database	2 Hours	Mihir
3	Testing the new password strength	2 Hours	Sanjith
4	Testing and Checking the password update	3 Hours	Arjun

### Acceptance Criteria:

- Given that the UI is implemented correctly, the interface displays appropriate messages.
- Given that the server and the database are set up correctly, the data inputted by the user is stored in the database.
- Given that the password is strong enough only then will the user be able to reset the password.

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## User Story #2

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

#	Description	Estimated Time	Owner
1	Set up security questions during sign up process	4 hours	Arjun
2	Set up server and database communications for retrieving security questions.	3 hours	Bharat
3	Store security questions in the database.	4 hours	Shivam
5	Testing the security questions verification	2 hours	Bharat

### Acceptance Criteria:

- Given that the server and the database are set up correctly, one can retrieve data security questions from the database.
- Given that the UI is implemented correctly, the entered security questions will be displayed.
- Given that the server and database are set up currently, the answers will be matched correctly.

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### User Story #3

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

#	Description	Estimated Time	Owner
1	Creating the UI for modifying the product price	5 hours	Mihir
2	Setup server and database communication for saving the modified price	5 hours	Bharat
3	Testing functionality and feel of the process	2 hours	Arjun

#### Acceptance Criteria:

- Given that the UI is implemented correctly, the correct product information that is fetched from the database is displayed correctly.
- Given that the server and database are implemented correctly, the change will be reflected in the database.
- Given that the server communication is set up correctly the correct price will be displayed when updated.

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## User Story #4

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

#	Description	Estimated Time	Owner
1	Creating the UI to display discounts.	6 hours	Mihir
2	Store available discounts in the database.	2 hours	Shivam
3	Create a UI to view current available discounts	3 hours	Arjun
4	Testing the functionality of discount.	2 hours	Mihir

### Acceptance Criteria:

- Given that the UI is implemented correctly, sellers will be able to add discounts
- Given that the server communication is set up the server can fetch discounts
- Given that the server and database are implemented correctly, the discounts can be stored and queried
- Given that the UI is implemented correctly, the seller can view the discounted cart

## User Story #5

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

#	Description	Estimated Time	Owner
1	Create the UI for entering discount codes	5 hours	Sanjith
2	Verify the discount code by sending requests to the server	4 hours	Mihir
3	Calculating the updated price of the product if the discount code is valid	2 hours	Arjun
4	Testing discount code functionality	2 hours	Shivam

### Acceptance Criteria:

- Given that the UI is implemented, sellers can make a discount code
- Given that the server and database are implemented correctly, the custom discount codes can be fetched by the server from the database
- Given that the server and database are implemented correctly, the discounted price of the cart can be calculated
- Given that the UI is implemented, the seller can view a list of the discount codes

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## User Story #6

As a buyer, I would like to be able to login into the app.

#	Description	Estimated Time	Owner
1	Creating the UI to login to the app.	6 hours	Abhi
2	Setup server and database communication for retrieving login information.	5 hours	Bharat
3	Testing functionality	2 hours	Arjun

### Acceptance Criteria:

- Given that the UI is implemented, the buyer will be able to login into the app.
- Given that the server and database communication is set up, the server can verify login requests and match passwords.
- Given that the UI is implemented the buyer will be able to see if he was able to successfully login.

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## User Story #7

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

#	Description	Estimated Time	Owner
1	Creating UI for creating an account	4 Hours	Sanjith
2	Storing Username and Password in Database	4 Hours	Shivam
3	Testing the registration process	2 Hours	Arjun

### 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 database is set up correctly, the data inputted by the user is stored in the database as the login details of the seller.



## User Story #8

As a buyer, I would like to be able to view the products that the Seller enlists.

#	Description	Estimated Time	Owner
1	Creating UI for displaying all the seller's product to the buyer	2 hours	Sanjith
2	Requesting the server to provide all the seller items	3 hours	Shivam
3	Handling JSON request formatting between app and server.	3 hours	Mihir
4	Testing the functionality of the page that displays the products	2 hours	Bharat

### Acceptance Criteria:

- Given that the UI is implemented, all the sellers products can be viewed by the buyer.
- Given that the server and database are implemented correctly, the JSON request formatting between app and server should be handled.
- Given that the server and database are implemented correctly, all the seller's products should be fetched and displayed.

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## User Story #9

As a buyer, I would like to be able to see product descriptions.

#	Description	Estimated Time	Owner
1	Creating the UI for displaying product descriptions on the app	4 hours	Abhi
2	Setup server and database communication for fetching description	3 hours	Shivam
3	Testing functionality and feel of the process	2 hours	Arjun

Acceptance Criteria:

- Given that the UI is implemented, the seller should be able to see product description in the app.
- Given that the server and database communication is set up, the product description can be fetched from the database.
- Given that the server and database communication is set up, the product description should be displayed.

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## User Story #10

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

#	Description	Estimated Time	Owner
1	Adding a UI for the buyer to order products.	4 hours	Abhi
2	Setup server and database communication for placing order.	3 hours	Bharat
4	Testing functionality and feel of the process	2 hours	Arjun

### Acceptance Criteria:

- Given that the UI is implemented, the buyer will be able to order products.
- Given that the server and database communication is set up, the order will be placed in the database.
- Given that the server and database communication is set up, a pop up will display 'Order Placed' upon the buyer placing an order.

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## User Story #11

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

#	Description	Estimated Time	Owner
1	Add UI to view previous orders and purchases.	4 hours	Abhi
2	Setup server and database communication for viewing previous orders and purchases.	4 hours	Shivam
3	Testing Functionality	2 hours	Mihir

### Acceptance Criteria:

- Given that the UI is implemented, the previous orders and purchases can be filled.
- Given that the server and database communication is set up, previous orders and purchases can be fetched.
- Given that the database is set up, the correct prices for each order will be displayed.

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## User Story #12

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

#	Description	Estimated Time	Owner
1	Create a UI to view seller contact information.	4 Hours	Sanjith
2	Storing and fetching the seller contact information from the database.	5 Hours	Arjun
4	Testing functionality of seller description	2 Hours	Mihir

### Acceptance Criteria:

- Given that the UI for seller description is implemented, the seller contact information can be viewed.
- Given that the server and database communication is set up, the seller's contact information can be stored in the database.
- Given that the server and database communication is set up, the seller contact description can be fetched from the database when needed.

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### User Story #13

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

#	Description	Estimated Time	Owner
1	Create a UI to view the cart	4 Hours	Abhi
2	Setup server communication to fetch and display product information in the cart	3 Hours	Shivam
3	Testing functionality viewing the cart	2 Hours	Mihir

#### Acceptance Criteria:

- Given that the server and database communication is set up, the product information will be fetched for each of the products.
- Given that UI is implemented, the buyer would be able to view the products in the cart.
- Given that the UI is implemented correctly, the buyer will be able to checkout the cart to place an order

## User Story #14

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

#	Description	Estimated Time	Owner
1	Creating the UI for sellers to add their addresses to the address book page	4 hours	Abhi
2	Setup server database communication to store seller's addresses	4 hours	Shivam
3	Create the UI for sellers to modify their addresses from their address book	4 hours	Sanjith
4	Testing the functionality of the address book page	2 hours	Bharat

### Acceptance Criteria:

- Given that the UI is implemented, sellers can add addresses to their address page.
- Given that the server and database communication is set up, the database will add the new address to the database.
- Given that the server and database is set up correctly, the new address will be displayed in the updated address book.

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## User Story #15

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

#	Description	Estimated Time	Owner
1	Creating the UI for sellers to delete their addresses	4 hours	Sanjith
2	Set up the server to make requests to the database for updating the addresses	3 hours	Mihir
3	Testing the address deletion process	2 hours	Shivam

### Acceptance Criteria:

- Given that the UI is implemented, sellers can delete addresses to their address page.
- Given that the tables for buyers and sellers are set up properly, the address will be removed from the database.
- Given that the server and database is set up correctly, the old address will be removed in the updated address book.



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## User Story #16

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

#	Description	Estimated Time	Owner
1	Creating the UI for viewing the cart	5 hours	Abhi
2	Setup server database communication to fetch the products in cart from the database.	4 hours	Arjun
3	Testing the cart functionality	2 hours	Mihir

### Acceptance Criteria:

- Given that the UI is implemented, the order review page can be viewed
- Given that the server and database communication is set up, the correct order details will be displayed.
- 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.

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### User Story #17

As a developer, I would like to be able to set up and work in Android Studio.

#	Description	Estimated Time	Owner
1	Setup the server localhost	6 hours	Bharat
2	Add the android project to github	2 hours	Shivam
3	Setup and test server-frontend communication for fetching and storing requests.	6 hours	Arjun
4	Test functionality of the server and the requests	3 hours	Abhi

#### Acceptance Criteria:

- Given that Android Studio is set up everyone should be able to work comfortably in the IDE.
- Given that the server and database communication is set up, the server can be communicated to from the front end.
- Given that the project is added to github commit history can be viewed and tracked.

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## User Story #18

As a developer, I would like to be able to verify email addresses with regex.

#	Description	Estimated Time	Owner
1	Create the regular expression to verify the email address	4 hours	Shivam
2	Integrating the regex with the currently setup front end.	3 hours	Bharat
3	Testing the accuracy of the verification process	2 hours	Arjun

### Acceptance Criteria:

- Given that algorithm works correctly it will be able to verify the emails correctly.
- Given that the regex works correctly, appropriate messages will be displayed on the front end UI.
- Given that the algorithm is set up correctly, only regex approved emails will be stored in the database.

## User Story #19

As a developer, I would like to be able to set up database communication with Android Studio.

#	Description	Estimated Time	Owner
1	Research PHP resources	2 hours	Bharat
2	Setup php server on AWS	4 hours	Arjun
3	Test php-database communication	1 hours	Arjun
4	Test functionality of the server and the requests between server and database	1 hours	Abhi

### Acceptance Criteria:

- Given that IntelliJ integration is set up everyone should be able to work comfortably in the IDE.
- Given that the server and database communication is set up, the database can be queried to retrieve information.
- Given that the server and database communication is set up, the database can be requested to store information.

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## Functional Requirements:

Sprint #1	Sprint #2
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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 to be able to reset my password.
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 be able to change the price of items in my inventory.
9. As a seller, I would like to add pictures to products.
10. As a seller, I would like to be able to accept orders.
11. As a seller, I would like to be able to add product descriptions.
12. As a seller, I would like to mark products as sold out.
13. As a seller, I would like to give discounts on the marked price.
14. As a seller, I would like to be able to make custom discount codes.
15. As a seller, I would like to have the contact information of my customers.
16. As a seller, I would like to see abandoned checkouts.
17. As a seller, I would like to create categories of products.
18. As a seller, I would like to modify my product details.
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 see the orders placed by the customers.
25. As a seller, I would like to be able to deny or accept cancellation/return requests.
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 subproducts within products.

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31. As a seller, I would like to be able to manage my profile.
  32. As a seller, I would like an executable apk as the final product.
  33. As a buyer, I would like to be able to create an account on the seller's app.
  34. As a buyer, I would like to be able to login into the app.
  35. As a buyer, I would like to be able to reset my login details if I forget them.
  36. As a buyer, I would like to be able to view the products that the Seller enlists.
  37. As a buyer, I would like to be able to see product descriptions.
  38. As a buyer, I would like to be able to see pictures of the products.
  39. As a buyer, I would like to be able to order things from the seller's app.
  40. As a buyer, I would like to be able to look at my previous orders and purchases.
  41. As a buyer, I would like to be able to request a cancellation of my purchases.
  42. As a buyer, I would like to be able to provide a reason for my cancellation request.
  43. As a buyer, I would like to have access to the contact information of the seller.
  44. As a buyer, I would like to get notified when the seller accepts/denies my order.
  45. As a buyer, I would like to add addresses to my address book.
  46. As a buyer, I would like to delete addresses from my address book.
  47. As a buyer, I would like to view my cart.
  48. As a buyer, I would like to review my order before checking out.
  49. As a buyer, I would like to be able to search for specific items.
  50. As a buyer, I would like to be able to see the pricing for the product on the search page.
  51. As a buyer, I would like to keep track of products that I am interested in.
  52. As a buyer, I would like to be able to apply discount codes.
  53. As a developer, I would like to be able to update and manage the user database.
  54. As a developer, I would like to be able to add or remove users.
  55. As a developer, I would like to set up and work in Android Studio.
  56. As a developer, I would like to be able to verify email addresses with regex.
  57. As a developer, I would like to set up database communication with Android Studio.
  58. As a developer, I would like to clean up and refactor my code.
  59. As a developer, I would like to run manual tests on my modules.

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## **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.