

**Sprint 2 Planning Document**

**Team 25: Shantanu Jha, Arka Acharya, Anqi Yu, Kevin Jiang, Minyi Lu, Richard Jung**

Sprint Overview

For our second sprint, our focus will go toward the implementation of more features that will make our software more user-friendly. Specifically, these features include the ability for a user to see his/her number of followers, to see his/her number whom he/she is following, to see each account that is following the user, to see each account that the user is following, and add items to a "wishlist". To do so, our frontend team will work to implement the user interface components for our features. Furthermore, our backend team will work to implement the server communications that will handle user requests.

**Scrum Master**: Richard Jung

**Meeting Plan**: Thursdays at 6:00 P.M, Saturdays at 1:00 P.M.

**Risks/Challenges:**

As our team has become more comfortable with using our respective environment tools, we believe that we will be able to have a better start to our sprint. With this being said, we should not be overconfident in our abilities and not continue to have an overoptimistic belief that our team will be able to deliver when much work is still left for completion in a fast approaching deadline. Furthermore, as we continue to implement more features to our software, it is still crucial to strive for code quality. If we were to decide to become lazy and take short cuts in our implementation, the process of testing and debugging will accordingly become more difficult.

Current Sprint Detail

User Story #4

4. As a developer, I would like to develop a server-client application which facilitates communication between app and server.

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| **#** | **Task Description** | **Time** | **Owner** |
| **1** | Set up Android client and web routes | 0 hrs | Kevin |
| **2** | Implement socket communication from back-end server | 3 hrs | Shantanu |

Acceptable Criteria:

* Given all web routes are set up correctly, all client pages should have distinct route name
* Given socket programming are implemented correctly, Android client is capable of receiving information from server, and send request to server.

Test tasks:

* We must test that each requested by the user is accordingly inputted and changed in our database.

User Story #8

8. As a developer, I would like users to customize their profile to their liking

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| **#** | **Task Description** | **Time** | **Owner** |
| **1** | Setting up user access restrictions | 0 hrs | Arka, Shantanu |
| **2** | Setting up user bio or mood message | 2 hrs | Minyi |
| **3** | Implement communication to handle requests and save changes | 3 hrs | Arka, Anqi |

Acceptable Criteria:

* A user should be able to set their profile as private or public.
* When public, everyone will be able to find the account through search and view the wardrobe.
* Given user setting is private, people will be able to find their profile through search, but not be able to view the wardrobe. To view the wardrobe, they'll have to request to follow the user.
* The user will be able to have an intro message or bio which will be visible to all users.

Test tasks:

* We must test that each time a user customizes his/her profile settings, these changes are saved in our database and can be seen the next time he/she accesses his/her profile page.

User Story #2

1. As a developer, I would like users to have the option of changing their public username.

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| **#** | **Task Description** | **Time** | **Owner** |
| **1** | Implement functionality to update username in user profile from back-end | 2 hrs | Anqi |
| **2** | Implement functionality to update username in front-end UI | 0 hrs | Richard, Minyi |

Acceptance Criteria:

* Given the username editing functionality has been correctly implemented, a user can edit their username in user's profile page without directing to another page.
* When user input and submit a username that has been used by existing user, we will decline his or her request and ask user to re-enter their username.
* Given user has filled and submit their request to change their username, our database should immediately update and reflect their change.

Test tasks:

* We must test that each time a user changes his/her username, these changes are saved in our database and he/she can see these changes the next time he/she accesses his/her profile page.

User Story #15

15. As a user, I would like to be able to upload a profile picture.

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| **#** | **Task Description** | **Time** | **Owner** |
| **1** | Implement html form with browse button that allows user to choose what photo to upload | 2 hrs | Richard, Minyi |
| **2** | Implement user functionality of uploading, validating, and naming the photo | 2 hrs | Arka, Anqi |
| **3** | Implement confirmation that photo was successfully uploaded | 1 hr | Shantanu |

Acceptance Criteria:

* Given that the browse button is implemented correctly, the user will be able to look through their existing photos and be able to select the photo that the user wishes to be his/her profile picture
* Given that the user has selected a photo, the user will be able to upload, confirm upload, and provide a title or name to his/her profile picture
* Given that the user has successfully customized and uploaded his/her photo, the user will receive a confirmation that lets the user know that everything was done successfully.

Test tasks:

* We must test that each time a user uploads a photo and/or changes his/her title, these changes are saved in the database and can be seen the next time the user accesses his/her profile page.

User Story #17

17. As a user, I would like to "like" or "dislike" clothing items.

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| **#** | **Task Description** | **Time** | **Owner** |
| **1** | Have a "like" and "dislike" button. Once a button is clicked it will be bolded and the other one will be grayed out. | 0 hrs | Richard, Minyi |
| **2** | Create new command to help understand the server what to do when "like" and "dislike button is pressed. | 2 hrs | Arka, Anqi |
| **3** | Make server generate response after interaction with database. Parse the response as appropriate. | 2 hrs | Kevin, Shantanu |

Acceptance Criteria

* When one button is clicked it will be bolded and the other will be grayed out. Clicking the other button will flip the buttons looks and the database values. Re-clicking the button will nullify the "like" or "dislike"
* Values added to the database will clear reflect the number of likes and dislikes. It will accurately reflect the public opinion.

Test tasks:

* We must test that each time a user "likes" or "dislikes" a photo, the count of likes is saved in our database and can be seen by all users following the post.

User Story #18

18. As a user, I would like to add clothes to my wardrobe.

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| **#** | **Task Description** | **Time** | **Owner** |
| **1** | Have a "Add" button on the bottom right corner for every POST. | 0 hrs | Minyi,Kevin |
| **2** | Implement functionality that will call SQL command to add a clothes item to user's wardrobe data | 2 hrs | Shantanu |
| **3** | A notification box "Successfully add to wardrobe" will appear if this clothes item is add into database successfully. | 1 hr | Anqi |

Acceptance Criteria:

* Given the "add" button is correctly implemented, once the "add" button is clicked, a drop-down list of two option "add to my wardrobe", "add to my wishlist" will appear.
* Given the functionality of "add" button is correctly implemented, database will update user's wardrobe information and immediately reflect the change in User's My wardrobe or my wishlist page.
* Given "add" functionality is implemented correctly, a notification box will only appear once all the action is successfully done in the backend and database.

Test tasks:

* We must test that each time a user adds/removes a clothing item to his/her wardrobe, this information is inputted/removed in our database and the user can see these changes the next time he/she accesses his/her profile page.

User Story #20

20. As a user, I would like to follow other users.

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| **#** | **Task Description** | **Time** | **Owner** |
| **1** | Have a "Follow" button on the user profile page and change it to "Unfollow" button immediately when pressed | 0 hrs | Richard, Minyi |
| **2** | Create new command to help understand the server what to do when "Follow" button is pressed. | 2 hrs | Arka, Anqi |
| **3** | Make server generate response after interaction with database. Parse the response as appropriate. | 2 hrs | Kevin, Shantanu |
| **4** | Push notification to the user that a user wishes to follow them (if account is private) | 2 hrs | Kevin |
| **5** | If accepted, add the user to the table that stores the users each user is following. If account is public, do it straight away | 2 hrs | Richard |

Acceptance Criteria:

* Once the user presses the "Follow" button, the button must change to "Unfollow" immediately.
* The user that was to be followed would be sent a request if it’s a private account, which he/she can accept or decline. If he/she accepts the request, that user will be added to the following list of the user.
* If the account is not private, pressing the "Follow" button, immediately adds that user to the following list.

Test tasks:

* We must test that each time a user follows another user, these changes are inputted in our database.
* We must test that when a user follows another account, the account's activity can be seen the user's homepage.

User Story #21

21. As a user, I would like to unfollow other users.

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| **#** | **Task Description** | **Time** | **Owner** |
| **2** | Create new command to help understand the server what to do when "Unfollow" button is pressed. | 2 hrs | Kevin,Arka |
| **3** | Make server generate response after interaction with database. Parse the response as appropriate. | 2 hrs | Kevin, Shantanu |
| **5** | Remove the user from the table that stores the users each user is following. | 1 hr | Kevin |

Acceptance Criteria:

* Once the user presses the "Unfollow" button, the button must change to "Follow" immediately.
* Pressing the "Follow" button, immediately removes that user to the following list.

Test tasks:

* We must test that each time a user follows another user, these changes are inputted in our database.
* We must test that when a user follows another account, the account's activity can no longer be seen the user's homepage.

User Story #10

As a developer, I would like to be able to suggest followers to users

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| # | Task Description | Time | Owner |
| 1 | Implement the necessary user interface components to display accounts that are suggested followers to the user | 4 hrs | Minyi, Richard |
| 2 | Implement a new database table that will manage the user's common followers with another user | 3 hrs | Kevin, Shantanu |
| 3 | Implement algorithm that, to the best of our ability, matches users with others users that may know one another | 2 hrs | Minyi, Richard |
| 4 | Implement server backend communication that handles user request to see and scroll suggested followers | 4 hrs | Arka, Anqi |

Acceptance Criteria:

* Given that all aspects of suggested followers are implemented properly, when a user selects "Suggested Followers", the user will be able to see and scroll through his/her suggested followers.
* Given that all aspects of suggested followers are implemented properly, when a user selects "Suggested Followers", the user will be able to remove suggested followers from their list.
* Given that all aspects of suggested followers are implemented properly, when a user clicks on a username from his/her suggested followers, the user will be directed to the username's page.

Test tasks:

* We must test that our algorithm is able to reasonably suggest the user to follow other users that he/she may know.
* We must test that each time a user removes a suggested follow, these changes are made in our database and the user will not be able to see the suggested follow anymore.
* We must test that each time a user follows a suggested follow, these changes are made in our database and the user will be able to see the activity of the suggested follow.

User Story #19

As a user, I would like to be able to add clothes to my "wishlist".

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| # | Task Description | Time | Owner |
| 1 | Implement the necessary user interface components for a "wishlist". | 3 hrs | Minyi, Richard |
| 2 | Implement a new database table that will manage the information of a "wishlist" | 4 hrs | Kevin, Shantanu |
| 3 | Implement server backend communication that handles user request to add or remove an item from a "wishlist" | 4 hrs | Arka, Anqi |

Acceptance Criteria:

* Given that all the aspects of the wishlist are implemented properly, when the user clicks "Add" from an item of clothing, the item of clothing will appear in the user's wishlist.
* Given that the wishlist is properly implemented, when the user clicks "Remove" from inside his/her wishlist, the item of clothing will disappear form the user's wishlist.

Test tasks:

* We must test that each time a user adds an item to his/her wishlist, these changes are made in our database and the user can see these items the next time he/she accesses her homepage.
* We must test that each time a user removes an item from his/her wishlist, these changes are made in our database and the user can no longer see these items the next time he/she accesses her homepage.

User Story #22

As a user, I would like to be able to see how many followers I have.

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| # | Task Description | Time | Owner |
| 1 | Implement necessary user interface components to show number of followers | 2.5 hrs | Minyi, Richard |
| 2 | Implement a new database table that will handle the information for number of followers | 3 hrs | Kevin, Shantanu |
| 3 | Implement server backend communication that handles user request to see number of followers | 3 hrs | Arka, Anqi |

Acceptance Criteria:

* Given that all aspects of user followers are implemented correctly, when the user requests to see his/her profile, the number of followers will be displayed.

Test tasks:

* Successfully receive response from Dynamo DB in JSON format.
* Parse the JSON string token successfully
* Store the number in the appropriate variable and display on UI
* Change number when someone follows/unfollows. Make time lag as low as possible.

User Story #23

As a user, I would like to see how many people I am following.

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| # | Task Description | Time | Owner |
| 1 | Implement necessary user interface components  to show number of accounts that the user follows | 2.5 hrs | Minyi, Richard |
| 2 | Implement a new database table that will handle the information for number of accounts that the user follows | 3 hrs | Kevin, Shantanu |
| 3 | Implement server backend communication that handles user request to see the number of accounts following the user | 3.5 hrs | Arka, Anqi |

Acceptance Criteria:

* Given that all aspects of user following are implemented correctly, when the user requests to see his/her profile, the number of accounts that the user is following will be displayed.

Test tasks:

* Successfully receive response from Dynamo DB in JSON format.
* Parse the JSON string token successfully
* Store the number in the appropriate variable and display on UI
* Change number when someone follows/unfollows. Test time lag and improve to make it as low as possible.

User Story #24

As a user, I would like to see who is following me.

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| # | Task Description | Time | Owner |
| 1 | Implement necessary user interface components to display the specific users that follow the user | 4 hrs | Minyi, Richard |
| 2 | Implement a new database table that will handle the information for each of the user accounts that follow the user | 4 hrs | Kevin, Shantanu |
| 3 | Implement server backend communication that handles user request to see the specific accounts that are following the user | 3.5 hrs | Arka, Anqi |

Acceptance Criteria:

* Given that all aspects of user followers are implemented correctly, when the user clicks the number representing his/her followers, a list of all user accounts that follow the user will appear.
* Given that all aspects of user followers are implemented correctly, when the user clicks on a username from the list of his/her followers, the user will be directed to the username's page.

Test tasks:

* Successfully receive response from Dynamo DB in JSON format.
* Parse the JSON string token successfully
* Store the list of followers in the appropriate data type
* Update when someone follows/unfollows. Test time lag and improve to make it as low as possible.

User Story #25

As a user, I would like to see the people that I am following.

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| # | Task Description | Time | Owner |
| 1 | Implement necessary user interface components to display the specific users that the user follows | 4 hrs | Minyi, Richard |
| 2 | Implement a new database table that will handle the information for each of the user accounts that the user follows | 4 hrs | Kevin, Shantanu |
| 3 | Implement server backend communication that handles user request to see the specific accounts that the user follows | 4 hrs | Arka, Anqi |

Acceptance Criteria:

* Given that all aspects of user following is implemented correctly, when the user clicks the number representing the number of accounts that the user is following, a list of all user accounts that the user follows will appear.
* Given that all aspects of user following is implemented correctly, when the user clicks on a username from the list of accounts that the user follows, the user will be directed to the username's page.

Test tasks:

* Successfully receive response from Dynamo DB in JSON format.
* Parse the JSON string token successfully
* Store the list of followers in the appropriate data type
* Update when someone follows/unfollows. Test time lag and improve to make it as low as possible.

User Story #26

As a user, I would like to see what clothes are recently trending upward or downward.

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| # | Task Description | Time | Owner |
| 1 | Implement necessary user interface components to show charts of clothes that have increased and decreased in ranking | 4 hrs | Minyi, Richard |
| 2 | Implement a new database table that will handle the information for the number of likes that a clothing item has | 4 hrs | Kevin, Shantanu |
| 3 | Implement algorithm that, to our best ability, identifies items that are trending upward or downward | 2 hrs | Kevin, Shantanu |
| 4 | Implement server backend communication that handles user request to look at charts and rankings of clothing items | 4 hrs | Arka, Anqi |

Acceptance Criteria:

* Given that all aspects of the charts are implemented correctly, when a user clicks on "Charts", the user will be able to see a current ranking of all clothing items in our database based on number of likes.
* Given that all aspects of the charts are implemented correctly, when a user clicks on "Charts", the user will be able to see up arrow or down arrow next to each item of clothing indicating whether the clothing is trending upward or downward.

Test tasks:

* We must test that each time a user requests to see the charts, the user can see how items are ranked among one another
* We must test that each the arrows properly indicating clothing items that have risen or fallen from previous spots in the rankings.

User Story #32

As a user, I would like a brief description of the item and a link to the store where I could buy it.

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| # | Task Description | Time | Owner |
| 1 | Implement necessary user interface components to display the description and link to the store for each user post | 4 hrs | Minyi, Richard |
| 2 | Implement a new database table that will handle the information of the description and links for each clothing item | 2 hrs | Kevin, Shantanu |
| 3 | Implement a new database table that will handle the information of links for each clothing item | 2 hrs | Kevin, Shantanu |
| 4 | Implement server backend communication that handles user request to read descriptions and click on the link to the store | 4 hrs | Arka, Anqi |

Acceptance Criteria:

* Given that all aspects of user posting are implemented correctly, when a user sees a post, the user should see a brief description of the clothing item
* Given that all aspects of user posting are implemented correctly, when a user clicks on the link, the user will be taken to the website of the store that makes the clothing item

Test tasks:

* We must test that each time a user adds information to his/her post, these changes are made to our database.
* We must test that each time a user adds a link, the link properly takes a user to the correct store to purchase the item.

Remaining Requirements

Functional:

1. As a developer, I would like user feedbacks.
2. ~~As a developer, I would like users to have the option of changing their public username.~~
3. ~~As a developer, I would like users to have a secure way of storing usernames and passwords.~~
4. ~~As a developer, I would like to develop a server-client application which facilitates communication between app and server.~~
5. As a developer, I would like my server to respond quickly to the requests of the user
6. As a developer, I would like fast and secure connection between database and server
7. As a developer, I would like to push notifications to users when necessary.
8. ~~As a developer, I would like users to customize their profile to their liking.~~
9. As a developer, I would like users to be able to open the browser version directly from the application.
10. ~~As a developer, I would like to suggest followers to users.~~ \*\*\*
11. ~~As a user, I would like to create an account.~~
12. ~~As a user, I would like to login to my account.~~
13. As a user, I would like to sync my account to other devices(if time allows).
14. ~~As a user, I would like the application to "remember me".~~
15. ~~As a user, I would like to be able to upload a profile picture.~~
16. As a user, I would like to be able to direct message another user (if time allows).
17. ~~As a user, I would like to "like" or "dislike" clothing items.~~
18. ~~As a user, I would like to add clothes to my wardrobe.~~
19. ~~As a user, I would like add clothes on my wish list.~~ \*\*\*
20. ~~As a user, I would like to follow other users.~~
21. ~~As a user, I would like to be able to unfollow other users~~
22. ~~As a user, I would like to see how many followers I have.~~ \*\*\*
23. ~~As a user, I would like to see how many people I am following.~~ \*\*\*
24. ~~As a user, I would like to see who is following me.~~ \*\*\*
25. ~~As a user, I would like to see the people I am following.~~ \*\*\*
26. ~~As a user, I would like to see what clothes are recently trending upward or downward.~~ \*\*\*
27. As a user, I would like to see a notification when someone follows me.
28. As a user, I would like to have an option to make my account public or private.
29. As a user, I would like to see public user’s (think celebrities) wardrobe without following them.
30. As a user, I would like to see notification when new items are added.
31. As a user, I would like to see a notification when an item on my wish list goes on sale.
32. ~~As a user, I would like a brief description of the item and a link to the store where I could buy it.~~ \*\*\*

\*\*\* - Denotes user stories that will be completed during Sprint 2

Testing:

We will be testing our application features on the AWS Mobile Hub. The service also provides a testing platform