Wander

Team 27 - Sprint 1 Planning Document

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Sprint Overview

During this first sprint, we are going to setup the basic user interface, allow users to create accounts and login, introduce basic location tracking, and setup the server and database to store user information and other data. This will involve setting up the server and database as well as creating the API necessary to allow the client to easily access the server. The user should be able to register an account and update their profile with basic information as well as view their current location on a map.

Scrum Master: Kyle Booth

Meeting Schedule: Tuesday 6:00 pm, Friday 5:00 pm (with Project Coordinator)

Risks and Challenges: Most of our team members do not have experience developing android applications and setting up servers/databases, which means that there will be a steep learning curve when starting. In addition to that, we are unsure how well we can integrate different APIs (Facebook, LinkedIn, GPS location, etc.) into our project, so it may prove challenging if our platform is not compatible.

Current Sprint Detail

User Story 1
As a user, I would like to be able to register an account.

#	Task Description	Est. Time (hrs)	Team	Owner
1	Set up back end server with API	6	Backend	Lucas
2	Set up SQL database for user info	5	Backend	Lucas
3	Implement password hashing/encryption	8	Backend	Jordan
4	Create account registration screens	4	Frontend	Kyle

Acceptance Criteria:
- Given that I have not already registered, when I input valid registration data, an account should be created and saved on the database.

- Given that I have already registered, when my password is stored in the database, it should be safely encrypted.
- Given that I do not have a registered account and have not logged in, when I open the app I should be shown the registration screen.
- Given that I input invalid registration information, when I submit the registration information, an account should not be created, and I should be notified of the invalid information.

User Story 2

As a user, I would like to be able to log in and out of my account.

#	Task Description	Est. Time (hrs)	Team	Owner
1	Create account login screen	4	Frontend	Kyle
2	Set up secure login info verification	5	Backend	Jordan
3	Write controllers for screens	4	Backend	Ali
4	Stay signed in until user signs out	4	Backend	Ali

Acceptance Criteria:
- Given that I open the app after I previously signed in, I want to stay signed in unless I explicitly log out.
- Given that I am on the login page, when I enter invalid login information, I want to be informed whether my username or password is incorrect.
- Given that I am on the login page, when I enter the correct login information, I want to be able to access my account.

User Story 3

As a user, I would like to link an email to my account.

#	Task Description	Est. Time (hrs)	Team	Owner
1	Have an email registration section	4	Frontend	Kyle
2	Make sure email is not duplicate	3	Backend	Jordan
3	Verify email address	4	Backend	Lucas
4	Add email address to user in database	3	Backend	Jordan

Acceptance Criteria:

- Given I have input a valid email, when I submit my registration information, I should be sent an email to confirm my registration.
- Given I have input a duplicate email, when I submit my registration information, then an account should not be created, and I should be notified of the duplicate email.
- Given I have been sent an email validation email, when I click the button (in the email) to validate my email, and account should be created.

User Story 4
As a user, I would like to be able to modify account information.

#	Task Description	Est. Time (hrs)	Team	Owner
1	Create screens to modify info	3	Frontend	Kyle
2	Write controllers for screens	3	Backend	Kyle
3	Push modified data to database	3	Backend	Ali

Acceptance Criteria:
- Given that I have already created an account, I want to see an options page that allows me to change account information
- Given that I have already created an account, when I change my account information, I want to be notified via email.
- Given that I want to modify account information, I want the changes I make to be permanent.

User Story 5
As a user, I would like to be able to change my linked email.

#	Task Description	Est. Time (hrs)	Team	Owner
1	Make sure new email is not duplicate	3	Backend	Jordan
2	Verify email address	4	Backend	Lucas
3	Change email address for user in database	3	Backend	Jordan
4	Email confirmation	4	Backend	Lucas

Acceptance Criteria:
- Given that I have already linked an email, when I request to change my linked email, I will be asked to verify my password.
- Given that I have already linked an email, when I request to change my linked email, my old email address will be asked for a confirmation.

● Given that I have already linked an email, when I request to change my linked email, I will not be allowed to add an invalid email address.

User Story 6
As a user, I would like to be able to reset or change my password.

#	Task Description	Est. Time (hrs)	Team	Owner
1	Verify old password to change	3	Backend	Jordan
2	Email verification to reset password if can't remember old password	3	Backend	Lucas
3	Hash/encrypt new password and store in database	3	Backend	Jordan

Acceptance Criteria:
● Given that I have not forgotten my password, when I request to change my password, I should be able to enter my current password to change it to a new password.
● Given that I have forgotten my password, when I request to reset my password, an email should be sent to the email address on my account with a link to reset my password.
● Given that I have changed or reset my password, the new password should be properly hashed/encrypted in the database.

User Story 7
As a user, I would like to be able to register and sign in via my Google account.

#	Task Description	Est. Time (hrs)	Team	Owner
1	Implement Google Sign-In API	4	Backend	Colin
2	Update login and registration screens to support using google login	1	Frontend	Colin
3	Create and push user information provided by the Google Sign-In API to the user database	4	Backend	Colin

Acceptance Criteria:
● Given I have not registered an account, when I attempt to register an account, I should be able to do so through Google Sign-in.
● Given I have registered an account with Google Sign-In, when I attempt to log in, I should be able to do so through Google Sign-In.

- Given I have registered an account, but not with Google Sign-In, I should not be able to login with Google Sign-In.

User Story 8
As a user, I would like to be able to register and sign in via my Facebook account.

#	Task Description	Est. Time (hrs)	Team	Owner
1	Implement Facebook Login API	4	Backend	Colin
2	Update login and registration screens to support using Facebook Login	1	Frontend	Colin
3	Create and push user information provided by the Facebook Login API to the user database	4	Backend	Colin

Acceptance Criteria:
- Given I have not registered an account, when I attempt to register an account, I should be able to do so through Facebook Login.
- Given I have registered an account with Facebook Login, when I attempt to log in, I should be able to do so through Facebook Login.
- Given I have registered an account, but not with Facebook Login, I should not be able to login with Facebook Login.

User Story 9
As a developer, I would like to be able to store user GPS data for a period of time.

#	Task Description	Est. Time (hrs)	Team	Owner
1	Setup Google Play services Location API interface for location data	6	Backend	Brandon
2	Implement pushing user data to database for future use.	4	Backend	Brandon
3	Implement a system to remove data older than a week.	4	Backend	Brandon
4	Encrypt/anonymize location data in database.	6	Backend	Brandon

Acceptance Criteria:

- Given I am able to connect to location services, whenever the app is running, the app should be collecting location data.
- Given my location data is in the database, if the data is more than a week old, then that location data should be deleted.
- Given the app is collecting location data, whenever the app is running, the location data should be being pushed to the database.
- Given that location data is stored in the database, then it should be encrypted if necessary and anonymized so that it cannot be linked to any specific user unless they have the key.

User Story 10
As a user, I would like to be able to delete my account.

#	Task Description	Est. Time (hrs)	Team	Owner
1	Create delete account screen	4	Frontend	Kyle
2	Remove any user location data from database	4	Backend	Jordan
3	Remove user profile, username, email, and password from database	3	Backend	Jordan

Acceptance Criteria:
- Given that I have created an account, when I ask to delete my account, I want a confirmation to be sent to my email before the account is deleted.
- Given that I have created an account, when I ask to delete my account, I want an in-app popup to confirm my decision.
- Given that I have created an account, when I ask to delete my account, I want all my account and location data to be removed from the application.

User Story 11
As a user, I would like to be able to maintain a profile with my interests.

#	Task Description	Est. Time (hrs)	Team	Owner
1	Push profile data to database	4	Backend	Ali
2	Create profile screens	7	Frontend	Ali
3	Update database on profile changes	4	Backend	Ali

Acceptance Criteria:
- Given that I have registered an account, I want to be able to update my profile with a picture.

- Given that I have registered an account, I want to be able to fill out my interests or select from a list of pre-set interests.
- Given that I have already added interests, I want to be able to modify and remove previously added interests.

User Story 12
As a user, I would like to be able to import Facebook data into my profile.

#	Task Description	Est. Time (hrs)	Team	Owner
1	Use Facebook API to import data	8	Backend	Colin
2	Store profile info into database	4	Backend	Colin
3	Display profile info in app	5	Frontend	Colin

Acceptance Criteria:
- Given that I have registered a Wander account, I want to be able to import Facebook profile information into my Wander profile.
- Given that I have registered a Wander account, I want to be able to link my Facebook account so profile info gets updated to Wander.
- Given that I have imported profile data from Facebook, I want to be able to modify and delete interests.

User Story 13
As a user, I would like to import LinkedIn data into my profile.

#	Task Description	Est. Time (hrs)	Team	Owner
1	Use LinkedIn API to import profile info	8	Backend	Lucas
2	Store profile info into database	4	Backend	Lucas
3	Display profile info in app	5	Frontend	Lucas

Acceptance Criteria:
- Given that I have registered a Wander account, I want to be able to import LinkedIn profile information into my Wander profile.
- Given that I have registered a Wander account, I want to be able to link my LinkedIn account so profile info gets updated to Wander.
- Given that I have imported profile data from LinkedIn, I want to be able to modify and delete interests.

User Story 14

As a user, I would like a map that shows my current location.

#	Task Description	Est. Time (hrs)	Team	Owner
1	Create a button for viewing your location on a map	2	Frontend	Kyle
2	Retrieve user location	5	Backend	Brandon
3	Implement the location information using the "My Location" function in Google Maps API	5	Backend	Brandon
4	Display map with user location in app	8	Frontend	Kyle

Acceptance Criteria:
- Given that I have allowed Wander to access my GPS location, when I press "see my location" I want to be shown a map with my location superimposed on it.
- Given that I have pressed "see my location", when I drag my finger across the screen I want the map to shift in that direction.
- Given that I have pressed "see my location", when I pinch or spread my fingers on the screen I want the map to zoom in and out respectively.

User Story 15

As a user, I would like to be able to toggle when the application uses my location information.

#	Task Description	Est. Time (hrs)	Team	Owner
1	Create a toggle for toggling location tracking	4	Frontend	Kyle
2	Disable location data collection in app	4	Backend	Kyle

Acceptance Criteria:
- Given that I would like to disable location tracking quickly and easily, then I would want a button or toggle in the app to do so.
- Given that I have disable location tracking, when the app is running, I would not like my location to be tracked.
- Given that I have disabled location tracking, then I would expect the app to remember this setting and not start tracking my location when I reopen it.

Backlog

1. ~~As a user, I would like to be able to register an account.~~
2. ~~As a user, I would like to be able to log in and out of my account.~~
3. ~~As a user, I would like to be able to link an email to my account.~~
4. ~~As a user, I would like to be able to modify account information.~~
5. ~~As a user I would like to be able to change my linked email.~~
6. ~~As a user, I would like to be able to reset or change my password.~~
7. ~~As a user, I would like to be able to register and sign in via my Google account.~~
8. ~~As a user, I would like to be able to register and sign in via my Facebook account.~~
9. ~~As a user, I would like a map that shows my current location.~~
10. As a user, I would like to be able to change the way that I login from email address to Google or Facebook, or vice versa.
11. As a user, I would like to be able to view past GPS location history.
12. As a user, I would like to view individuals that I have crossed paths with.
13. As a user, I would like to approve of an individual I have crossed paths with before they can see where we have crossed paths.
14. As a user, I would like to chat with other users I agree to connect with.
15. As a user, I would like to see popular locations via a heatmap.
16. As a user, I would like to see numerical statistics about popular locations.
17. As a user, I would like to be prompted to go places to meet more people.
18. As a user, I would like to be able to set a radius for individuals I match with.
19. As a user, I would like to have a dynamic match radius based on the density of nearby users.
20. ~~As a user, I would like to be able to toggle when the application uses my location information.~~
21. ~~As a user, I would like to be able to maintain a profile with my interests.~~
22. ~~As a user, I would like to be able to import Facebook data into my profile~~
23. ~~As a user, I would like to be able to import LinkedIn data into my profile.~~
24. As a user, I would like to receive notifications about the individuals I have crossed paths with at the end of the day.
25. As a user, I would like to be notified if I cross paths again with an individual I have already connected with..
26. As a user, I would like to be able to keep track of the number of times I have crossed paths with someone.
27. As a user, I would like to be able to block users who I would not like to be connected with again.
28. As a user, I would like to be able to report other users.
29. ~~As a user, I would like to be able to delete my account.~~
30. As a user, I would like to be notified about interests I share with individuals I connect with.
31. As a user, I would like my personal data to be securely stored.
32. As a user, I do not want to be matched if I am moving too quickly (such as when I am in a vehicle).
33. As a user, I do not want to be matched if I am not moving.
34. As a user, I would like to be able to limit the number of matches I receive per day.

35. As a user, I would like to be able to set a schedule for times I want the matching to be turned off.
36. As a user, I would like to be able to customize the way the app looks.
37. ~~As a developer, I would like to be able to store user GPS data for a period of time.~~
38. As a developer, I would like to be able to run the backend on a Linux server.
39. As a developer, I would like to make sure user location data is stored securely and anonymously.
40. As a developer, I would like user passwords to be properly hashed and encrypted in the database.
41. If time allows, I would like to be notified of popular restaurants or stores that other people have visited.
42. If time allows, I would like to be able to tag locations on a map and share my opinions about any given location (park, restaurant, etc).
43. If time allows, I would like to be able to use Wander cross platform (iOS).
44. If time allows, I would like to be able to receive push notifications.
45. If time allows, I would like to be able to disable notifications from within the app.