Sprint 1 Planning Document

Team 18

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Sprint Overview

During this sprint, we hope to have a simple, working website of the base functionalities that we plan on having in our website that can fulfill the expected user stories. This includes the creation and modification of user account information (e.g. usernames, passwords, profile pictures), acquiring music preference information from the users through the means of the Spotify API and a simple quiz, and viewing a generated music playlist through our website.

Scrum Master: Akshaya Kumar

Meeting Schedule: Mondays/Wednesdays at 2:30 PM, Fridays at 3:00 PM

Risks and Challenges:

Most of our team is new to working on a full-stack project involving our chosen tech stack. As a result, we anticipate that getting over the learning curve that comes with starting a new project will take some time and will be a challenge that we face. Additionally, another challenge will be linking the frontend and backend together and ensuring that the data persists. Given the ambitious nature of this sprint, we run the risk of not being able to fully complete our chosen objectives and setting us back for future sprints.

Current Sprint Detail

User Story #1

As a user, I would like to be able to log in with my account.

#	Description	Estimated Time	Owner
1	Create skeleton UI with appropriate text fields and buttons	2 Hrs	Vidya
2	Set up Firebase to retrieve and verify the provided credentials	2 Hrs	Akshaya
3	Set up appropriate error messages in case of information mismatch	2 Hr (each)	Akshaya, Vidya
4	Handle site navigation based on action of choice (login, reset, create, etc.)	3 Hrs (each)	Akshaya, Vidya
5	Create and handle logic for logging out	3 Hrs (each)	Akshaya, Vidya

Acceptance Criteria:
- Given the website is able to be accessed, when the user visits our website, they should be greeted with an aesthetic landing page with our logo, necessary text fields, buttons, etc.
- Given that the Firebase authentication is set up, when the user types in the appropriate credentials into the text fields and clicks on the login button, they should either be redirected to another page upon success or displayed an error message.
- Given that the buttons have been set up already, when attempting to reset their password or create a new account, they should at the very least be redirected to another page on the website that is separate from the original landing page.

User Story #2

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

#	Description	Estimated Time	Owner
1	Set up button and display necessary prompts (confirmation, etc.)	1 Hr	Vidya
2	Create a pop up for users to input their current username, password, etc.	1 Hr	Vidya

#	Description	Estimated Time	Owner
3	Display successful confirmation message and navigate them back to homepage	1 Hr	Vidya
4	Implement appropriate logic for deletion of credentials and user data in Firebase	3 Hrs	Akshaya
5	Debug and test to make sure there are no security breaches after deletion	2 Hrs	Sai

Acceptance Criteria:

- Given that login navigation has been set up, when the user clicks on the delete button, the website will generate a pop up informing them about their intention to delete their account.

- Given that user authentication has been set up, when the user has confirmed they want to delete their account, the website should prompt them to reenter both their username and password.

- Given that account deletion functionality has been correctly implemented and the user has confirmed their intention to delete their account, when the appropriate message/request has been sent to the Firebase, the backend should delete all associated user data and credentials.

User Story #3

As a user, I would like to be able to create a profile with a username.

#	Description	Estimated Time	Owner
1	Create skeleton UI with appropriate text fields and buttons	2 Hrs	Visa
2	Set up Firebase backend to authenticate validity of user input	2 Hrs	Akshaya
3	Set up appropriate error messages in case of non-unique username	2 Hrs (each)	Akshaya, Visa
4	Set up appropriate error message in case of invalid profile picture file type	2 Hrs (each)	Akshaya, Visa
5	Use Firebase to link profile information with user account details	2 Hrs	Akshaya

Acceptance Criteria:

- Given that the UI is created properly, when the user is finished setting up an account, the profile creation page will open to begin the process of creating a profile.
- Given that the authentication system is implemented correctly, when the user types in a username, the validity of the username will be displayed (i.e. an error message if necessary).
- Given that the authentication system is implemented correctly, when the user uploads a profile picture, the validity of the image file type will be displayed (i.e. an error message if necessary).
- Given that the backend is set up correctly, when the user submits their profile information, the data will be saved to the user's account details in Firebase.
- Given that the profile is saved correctly, when the user reopens the website, the profile information will be displayed and will be accurate.

User Story #4

As a user, I would like to be able to modify my username.

#	Description	Estimated Time	Owner
1	Create an Edit Profile button	1 Hr	Visa
2	Prompt user with field to edit username contents	2 Hr	Visa
3	Create a save profile button	1 Hr	Visa
4	Update any of the saved changes in the database	3 Hrs	Akshaya

Acceptance Criteria:

- Given that the Edit Profile button is implemented correctly, when a user clicks on it, they should be able to access a page with an editable field.
- Given that the editing page is set up correctly, when a user clicks on the intended field, they should be able to directly edit the contents of the field.
- Given that the Save Profile button is implemented correctly, when a user clicks on it, the changes they made to an editable field should be populated in the database.

User Story #5

As a user, I would like to be able to view a profile page with my profile information.

#	Description	Estimated Time	Owner
1	Create a view profile button	1 Hr	Visa
2	Retrieve user's full name, username, and email address from database	2 Hr	Sai
3	Create UI panel to display the user's attributes	3 Hrs	Visa
4	Add button to handle the logout functionality	2 Hr (each)	Sai, Visa
5	Add button to navigate to the Edit Profile and Settings functionalities	1 Hr	Visa

Acceptance Criteria:

- Given that the UI is created properly, when the user wants to view their profile, the profile page will open.
- Given that the Firebase backend is implemented correctly, when the user opens their profile page, the user's information appears on the screen.
- Given that the UI is created properly, when the user is viewing their profile, the option to log out exists on the page.
- Given that the UI is created properly, when the user is viewing their profile, the option to edit their profile exists on the page.
- Given that the UI is created properly, when the user is viewing their profile, the option to navigate to the Settings page exists on the screen.

User Story #6

As a user, I would like to be able to change my password if needed.

#	Description	Estimated Time	Owner
1	Create a skeleton UI with the appropriate	2 Hrs	Vidya

#		Estimated Time	Owner
	text fields and buttons		
2	Use Firebase to check validity of new password	1 Hr	Sai
3	Set up appropriate error messages in case of invalid password	2 Hrs (each)	Sai, Vidya
4	Update user account details in Firebase with new password	2 Hrs	Sai

Acceptance Criteria:

- Given that the UI is created properly, when the user wants to change their password, the appropriate text fields and buttons will appear on the page.
- Given that the authentication system is implemented correctly, when the user types in a new password, the validity of the password will be displayed (i.e. an error message if necessary).
- Given that the backend is set up correctly, when the user submits their password information, the data will be saved to the user's account details in Firebase.
- Given that the password is saved correctly, when the user reopens the website, the user must log in with the new password.

User Story #7

As a user, I would like to be able to reset my password if needed.

#	Description	Estimated Time	Owner
1	Create forget password button	1 Hr	Vidya
2	Create security questionnaire to confirm identity	4 Hrs	Visa
3	Prompt for new password if the security questions are correctly answered	3 Hr	Sai
4	Change user password in the user database	2 Hr	Sai

Acceptance Criteria:

- Given that the log in page is implemented correctly, when the user does not remember their password or wants to reset their password, they can press the forget password button.
- Given that the forget password button is implemented, when the user clicks the button, the page will load a questionnaire with the user's security questions to confirm their identity.
- Given that the questionnaire is implemented correctly, if the user answers the security questionnaire correctly, then there will be a prompt for a new password.
- Given that the user account password is implemented correctly in the database, when the user enters their new password, their password information will be changed in the database.

User Story #8

As a user, I would like to be able to link my Spotify account to my Wander account.

#	Description	Estimated Time	Owner
1	Create 'Connect to Spotify' button	1 Hr	Vidya
2	Prompt for Spotify login details and permission	3 Hrs	Vidya
3	Connect information from the Spotify API to user profile	4 Hrs	Sai

Acceptance Criteria:
- Given that the user account UI is correctly implemented, when the user wants to connect their Spotify account, they can press the 'Connect to Spotify' button.
- Given that the 'Connect to Spotify' button is correctly implemented, when the user clicks on the button, the page will prompt the user for their Spotify log in details and permissions.
- Given that the Spotify API is correctly implemented, when the user enters their login information, the user's music preferences information from Spotify will be connected to their profile.

User Story #9

As a user, I would like to be able to remove my Spotify account.

#	Description	Estimated Time	Owner
1	Create remove Spotify connection button	1 Hr	Vidya
2	Remove connection from the Spotify API	3 Hrs	Sai
3	Remove Spotify details from user account details in Firebase database	2 Hrs	Sai

Acceptance Criteria:

- Given that the Spotify connection was correctly implemented, when the user wants to remove their Spotify connection, they can click the remove Spotify connection to do so.
- Given that the Spotify connection and button was correctly implemented, when the remove connection button is clicked, the Spotify API should be disconnected from the user profile.
- Given that the user's music preferences from Spotify were correctly implemented, when the Spotify connection is removed, the user account details from the Spotify API should also be removed from the Firebase database.

User Story #10

As a user, I would like to be able to take a quiz to determine my music preferences.

#	Description	Estimated Time	Owner
1	Prompt the user with a Take Quiz button to initiate the quiz	2 Hr	Shreya
2	Create UI panel that displays a quiz question and answer choices	3 Hrs	Shreya
3	Implement Next and Back buttons that navigate through the questions of the quiz	4 Hrs	Shreya
4	Create a Finalize Quiz Answers button to indicate the end of the quiz and to save the user's answers to the database	5 Hrs (each)	Shreya, Sai

Acceptance Criteria:

- Given that the Take Quiz button was correctly implemented, when the user clicks the button, they will be prompted with the first question in the quiz.
- Given that the Next and Back buttons are implemented correctly, when the user clicks on them, they will be able to navigate through the different questions on the quiz.
- Given that the Finalize Quiz Answers button is correctly implemented, when the user clicks the button, their selections from the quiz will be saved to the database.

User Story #11

As a user, I would like to be able to see my current favorite music preferences.

#	Description	Estimated Time	Owner
1	Create UI to see current music preferences	7 Hrs	Vidya
2	Be able to update current preferences in the database	3 Hrs (each)	Sai, Vidya
3	Save music preferences to server/database?	4 Hrs (each)	Shreya, Sai
4	Get music preferences from database and display on UI	4 Hrs (each)	Shreya, Sai

Acceptance Criteria:

- Given the link between the UI and the database is properly set up, a user should be able to see all their music preferences correctly without missing any preferences.
- Given the database is properly set up, user's new data should be stored properly and the UI should automatically be updated reflecting these preferences.
- Given the database is properly connected to the UI, a user should properly be able to remove/edit a preference and it should not continue to be stored incorrectly. Incorrect preferences should also not be deleted.

User Story #12

As a user, I would like to be able to get a music playlist for my journey.

#	Description	Estimated Time	Owner
1	Create UI to show user's playlist	7 Hr	Vidya
2	Create playlist in the server using information from the database and Spotify API	2 Hr	Shreya
3	Store current playlist in the database	3 Hr	Shreya
4	Embed as a Spotify playlist	1 Hr	Vidya
5	Find library/tools for embedding a playlist	2 Hr (each)	Shreya, Vidya

Acceptance Criteria:

- Given the database and the UI are set up properly, the correct songs (the songs given by the server and database and nothing else, should be shown on the screen).
- Given the database and server are made properly, the playlist is stored once it is generated.
- Given the embedding process works, all functionality of a Spotify playlist should be preserved.

User Story #13

As a user, I would like to be able to see my playlist embedded on the website.

#	Description	Estimated Time	Owner
1	Create UI panel to display embedded playlist	1 Hr	Vidya
2	Save embed code from customized playlist	3 Hrs	Shreya
3	Find React package to create Spotify embed	3 Hrs (each)	Shreya, Vidya
4	Link embed code with React package	3 Hrs (each)	Shreya, Vidya

Acceptance Criteria:

- Given that the UI is created properly, when the user opens the playlist page, the embedded playlist appears on the page.
- Given that the playlist is embedded correctly, when the user views the playlist, the name of each song and artist of each song is displayed.

● Given that the playlist is embedded correctly, when the user views the playlist, the user has the ability to play the song directly from the website.

User Story #14

I would like to be able to add a profile picture to my account.

#	Description	Estimated Time	Owner
1	Create a skeleton UI with the appropriate text fields and buttons	1 Hr	Vidya
2	Prompt user for profile picture through file upload	2 Hrs	Vidya
3	Use Firebase to check validity of new profile picture file type	1 Hr	Akshaya
4	Set up appropriate error messages in case of invalid profile picture	1 Hr (each)	Akshaya, Vidya
5	Update user account profile picture in Firebase	2 Hrs	Akshaya

Acceptance Criteria:
● Given that the UI is created properly, when the user views the profile page, they are able to view the different characteristics of their profile like their name, username, and profile picture.
● Given that the button for adding a profile picture is implemented correctly, when the user clicks it, they are able to import a new picture as their profile picture.
● Given that the file type validity checking is implemented correctly, when the user uploads an invalid file, they should be prompted with an error message.
● Given that the Save New Profile Picture functionality is implemented correctly, when the user saves their new profile picture, the new picture should update on their profile.

User Story #15

I would like to be able to modify my profile picture.

#	Description	Estimated Time	Owner
1	Create a skeleton UI with the appropriate text fields and buttons	2 Hrs	Visa
2	Use Firebase to check validity of new profile picture file type	1 Hr	Akshaya
3	Set up appropriate error messages in case of invalid profile picture	1 Hr (Each)	Akshaya, Visa
4	Update user account profile picture in Firebase	2 Hrs	Akshaya
5	Display new profile picture on profile page	2 Hrs	Visa

Acceptance Criteria:

- Given that the UI is created properly, when the user views the profile page, they are able to change/modify their profile picture using the appropriate buttons.
- Given that the authentication system is implemented correctly, when the user uploads a new picture, the validity of the picture will be displayed (i.e. an error message if necessary).
- Given that the backend is set up correctly, when the user submits a new profile picture, the data will be saved to a user's account details in Firebase.
- Given that the profile picture is uploaded correctly, when the user views their profile page, the new picture will be displayed.

Backlog

1. User Account/Profile

    As a user,

    a. I would like to be able to log in with my account.

    b. I would like to be able to delete my account.

    c. I would like to be able to create a profile with a username

    d. I would like to be able to modify my username.

    e. I would like to be able to add a profile picture to my account.

    f. I would like to be able to modify my profile picture.

    g. I would like to be able to delete my profile picture.

    h. I would like to be able to view a profile page with my profile information.

    i. I would like to be able to change my password if needed.

    j. I would like to be able to reset my password if needed.

    k. I would like to be able to edit my account information (ex. demographic, music preference, etc.) as needed.

    l. I would like to be able to view my listening data (total minutes, genres, artists).

2. Music Preferences

    As a user,

    a. I would like to be able to link my Spotify account to my Wander account.

    b. I would like to be able to change which Spotify account is linked to Wander.

    c. I would like to be able to remove my Spotify account.

    d. I would like to be able to take a quiz to determine my music preferences.

    e. I would like to be able to retake the quiz for different results.

    f. I would like to be able to see my past music preferences (i.e. past answers to quizzes, past results).

    g. I would like to be able to reset my quiz history.

    h. I would like to be able to toggle on preferences for a playlist (ex. seasonal, genre, mood, location).

    i. I would like to be able to see my current favorite music preferences.

3. Playlist Creation

As a user,

    a. I would like to be able to get a music playlist for my journey.

    b. I would like to be able to see my playlist embedded on the website.

    c. I would like to be able to edit my playlist.

    d. I would like to be able to export my playlist.

    e. I would like to be able to see my past curated playlists.

4. Itinerary Creation

As a user,

    a. I would like to be able to enter a starting location.

    b. I would like to be able to edit a starting location.

    c. I would like to be able to enter my destination.

    d. I would like to be able to edit my destination.

    e. I would like to be able to set my travel preference (ex. car, plane) for each trip.

    f. I would like to be able to edit my travel preference (ex. car, plane).

    g. I would like to be able to get a travel itinerary for my destination.

    h. I would like to be able to edit my itinerary.

    i. I would like to be able to see the overall map of my travels (i.e. show the map from starting point to destination).

    j. I would like to be able to see a smaller map of my itinerary midpoints (i.e. show a map from location A to location B to location C).

    k. I would like to be able to have a real-time map to see my current location.

    l. I would like to be able to export my itinerary.

    m. I would like to be able to see my past travel history.

5. Website Customization/Appearance

As a user,

    a. I would like to be able to access Wander on all devices as a website.

    b. I would like to be able to personalize the appearance of the website (light vs. dark theme, etc.)

    c. I would like to be able to hear sound effects from the website.

      d. I would like to be able to see animations within the website.

6. Sharing

As a user,

      a. I would like to be able to share my non-collaborative playlist within the website with one other user of this website (if time allows).

      b. I would like to be able to share my non-collaborative itinerary within the website with one other user of this website (if time allows).

      c. I would like to be able to share my non-collaborative playlist within the website with multiple other users of Wander (if time allows).

      d. I would like to be able to share my non-collaborative itinerary within the website with multiple other users of Wander (if time allows).

      e. I would like to be able to collaborate with a friend to create a playlist (if time allows).

      f. I would like to be able to collaborate with a friend to create an itinerary (if time allows).

Non-Functional Requirements

1. Performance

As a developer,

      a. I would like the website to run smoothly without crashing.

      b. I would like the website to be responsive to all user requests.

      c. I would like the application to be launched in 5 seconds.

      d. I would like the server to be able to handle concurrent users.

      e. I want both the client and server to elegantly handle errors and the failure of other components that they interact with.

2. Server

As a developer,

      a. I would like the server to be able to store user playlist data in a Firebase database.

      b. I would like the server to be able to store itinerary data in a Firebase database.

      c. I may want the server to be able to save user state and preferences.

3. Appearance

   As a developer,

       a. I would like to have an aesthetically pleasing website interface.

4. Security

   As a developer,

       a. I would like to allow the users to choose whether to share data location or not.

       b. I would like to protect the user's password and other personally identifiable information stored in the database.

       c. I would like the user data collected (e.g. photos, names, email addresses) to be anonymized or properly secured.

5. Usability

   As a developer,

       a. I would like the website to be accessible on all platforms and devices.

       b. I would like to have an easy-to-use website interface.