



## **Sprint 3 Planning Document**

Team 18

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### **Sprint Overview**

During this sprint, we hope to complete all functionality of our website. For the music component of Wander, this includes robust custom playlist generation, editing the playlist, and having the ability to export it. For the travel component of Wander, this includes viewing a map, creating an itinerary, and viewing travel history. We also hope to create the best user experience possible by adding animations, sound effects, and customization through light/dark mode toggling.

**Scrum Master:** Shreya Sanapala

**Meeting Schedule:** Mondays/Wednesdays at 1:30 PM, Fridays at 3:00 PM

### **Risks and Challenges:**

Our biggest challenge will be completing all of our tasks. Although we can create an MVP in the given timeline, we are striving to create a well-designed app that is aesthetic and user-friendly. So, we run the risk of not having enough time to complete all of our user stories to the level of perfection we're aiming for. Additionally, this sprint holds the challenge of integrating more Google Maps API features which will present a new learning curve to deal with.

## Current Sprint Detail

### User Story #1

As a user, I would like to be able to edit my playlist.

#	Description	Estimated Time	Owner
1	Create a Generate New Playlist button that makes a new playlist for users.	2 hrs	Sai
2	Generate new playlist for user if they update quiz preferences	2 hrs	Sai
3	Reflect any changes properly in Firebase	1 Hr	Sai
4	Testing and Debugging	2 Hrs	Sai

Acceptance Criteria:

- Given that page navigation is set up correctly, when the user navigates any expanded playlist page and clicks on Generate New Playlist, a new playlist should be generated for them and associated with that same trip.
- Given that the quiz functionality is set up correctly, when the user makes any changes to their choices, they should be given the option of generating a new playlist based on the updated preferences.
- Given that the backend is set up correctly, when the user edits the playlist, the new playlist is connected appropriately to their account details.

### User Story #2

As a user, I would like to be able to export my playlist.

#	Description	Estimated Time	Owner
1	Create a button that exports the playlist on the playlist page	0.5 Hr	Vidya
2	Send a confirmation when the playlist is sent	1 Hr	Vidya
3	Send a link of the playlist to the user's email	3 Hr	Sai
4	Testing and Debugging	2 Hrs	Sai

#### Acceptance Criteria:

- Given that the UI is structured properly, the user should be able to click on the export button to indicate that they want to export the playlist.
- Given that the backend is set up properly, the user should be sent an email with a link to their playlist.
- Given that the UI is connected to the backend properly, when the email is sent, they should get a popup saying it is sent.

#### User Story #3

As a user, I would like to be able to create a travel itinerary with added stops.

#	Description	Estimated Time	Owner
1	Modify 'Create Trip' UI to include button for adding midpoint stops	2 Hrs	Akshaya
2	Add autocomplete text field to midpoint addition	1 Hr	Akshaya
3	Implement appropriate logic for adding midpoints to trip information in Firebase	3 Hrs	Akshaya
4	Update UI to reflect added midpoints	2 Hrs	Akshaya
5	Create 'Itinerary' UI to show source, destination, and midpoints	4 Hrs	Akshaya
6	Testing and Debugging	2 Hrs	Akshaya

#### Acceptance Criteria:

- Given that the UI is modified properly, when the user views the 'Create Trip' page, they are able to see a button for them to add midpoint stops.
- Given that the UI is created properly, when the user wants to add a midpoint, they are able to type in their desired midpoint location and get autocomplete suggestions.
- Given that the backend is set up correctly, when the user submits their trip information, their midpoint stops should be linked to their trip in Firebase.

- Given that the UI and backend are linked correctly, when the user submits their trip information, their midpoint stops will be viewable on one of the relevant pages in Wander (e.g. expanded trip view).

#### User Story #4

As a user, I would like to be able to edit my itinerary.

#	Description	Estimated Time	Owner
1	Modify 'Edit Trip' UI to include functionality for editing midpoint stops	2 Hrs	Akshaya
2	Add autocomplete text field for midpoint editing	1 Hr	Akshaya
3	Implement appropriate logic for editing midpoints to trip information in Firebase	3 Hrs	Akshaya
4	Update UI to reflect edited midpoints	2 Hrs	Akshaya
5	Testing and Debugging	2 Hrs	Akshaya

Acceptance Criteria:

- Given that the UI is modified properly, when the user views the 'Edit Trip' page, they are able to see a button for them to edit midpoint stops.
- Given that the UI is created properly, when the user wants to edit a midpoint, they are able to type in their new desired midpoint location and get autocomplete suggestions.
- Given that the backend is set up correctly, when the user submits their edited trip information, their midpoint stops should be modified in Firebase.
- Given that the UI and backend are linked correctly, when the user submits their edited trip information, their new midpoint stops will be updated accordingly on relevant Wander UIs (e.g. expanded trip view).

#### User Story #5

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

#	Description	Estimated Time	Owner
1	Embed map into expanded trip page	2 hour	Visa
2	Reformat map to fit UI design	1 hour	Visa
3	Display starting point and destination point on map based on information in the backend	2 hour	Visa
4	Testing and Debugging	2 Hrs	Visa

Acceptance Criteria:

- Given that the expanded trip map UI is properly implemented, when the user enters the expanded trip page, there will be a map embedded on the on page.
- Given that the map is embedded in the expanded trip page, when the user enters the expanded trip page, the map will display the start and destination locations.
- Given that the UI is properly implemented, when the user is on the expanded trip page, they should be able to see the names of the source and destination locations

### User Story #6

As a user, 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).

#	Description	Estimated Time	Owner
1	Create UI on homepage that shows condensed version of the map	2 Hrs	Vidya
2	Retrieve the appropriate map from backend and show it on the UI	2 Hrs	Vidya
3	Create UI to also show the midpoints separately next to the map	2 Hrs	Vidya
4	Testing and Debugging	2 Hrs	Vidya

Acceptance Criteria:

- Given the UI is structured properly, when the user wants to see a map, they should be able to see a small map on the homepage.

- Given the backend is set up properly, the map should be of the appropriate trip.
- Given that the UI is set up properly, when the user is on the homepage, they should be able to see the names of the midpoints next to the map.

### User Story #7

As a user, I would like to be able to export my itinerary.

#	Description	Estimated Time	Owner
1	Modify 'Itinerary' UI to include 'Export Itinerary' button	1 Hr	Akshaya
2	Create functionality to send user itinerary to user's email	3 Hrs	Akshaya
3	Create confirmation popup on UI to display when itinerary is sent	2 Hrs	Akshaya
4	Testing and Debugging	2 Hrs	Akshaya

Acceptance Criteria:

- Given that the UI is modified properly, when the user views their itinerary, they should be able to see a button allowing them to export their itinerary.
- Given that the export functionality is built correctly, when the user clicks on the 'Export Itinerary' button, they should be sent an email with their itinerary information.
- Given that the UI and export functionality is created correctly, when the user clicks on the 'Export Itinerary' button, they should be shown a popup message confirming that the itinerary was sent to their email.

### User Story #8

As a user, I would like to be able to view and restore my past trips.

#	Description	Estimated Time	Owner
1	Change database structure to be able to locate the user's current trip	2Hr	Shreya
2	Change UI of Past Trip History page to allow a user click a button to restore a past	3Hr	Shreya

	trip		
3	Display the current trip on the homepage	1 Hr	Shreya
4	Create a UI on the homepage for when the user has no current trips	1 Hr	Shreya
5	Testing and Debugging	3 Hrs	Shreya

#### Acceptance Criteria:

- Given that the database is restructured properly, when the user creates a new trip, it is indicated in the database that that trip is the current trip.
- Given that the database is restructured properly, when the user visits the past trips page, the current trip is not visible on the past trips page.
- Given that the restore past trip functionality is implemented correctly, when a user clicks on a restore trip button, the trip is removed from the past trips page and is populated on the homepage.
- Given that the restore past trip functionality is implemented correctly, when the user restores a trip, the trip that was the current trip before the restoration shows up in the past trips page.

#### User Story #9

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

#	Description	Estimated Time	Owner
1	All functionality of the website should be preserved across device types	5 hr	Vidya
2	All components should be structured in a way that all of them are visible and readable across all devices	5 hr	Vidya
3	Personalization should work cross platform	4 hr	Vidya
	Testing and Debugging	2 Hrs	Vidya

#### Acceptance Criteria:

- Given that the UI is structured properly, when the user opens the website on different devices, the functionality shouldn't change.
- Given that the UI is structured properly, when the user wants to visit a page, all the components should be structured in a readable and appropriate manner on all devices.
- Given the UI is structured properly, when the user wants to change from dark to light mode, they should be able to do it across all devices.

### User Story #10

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

#	Description	Estimated Time	Owner
1	Create CSS pages to uniform the website's appearance and separate light and dark mode colors	3 hours	Visa
2	Create mockups of some pages to decide on the colors to use for dark mode	2 hour	Visa
3	Access the backend to check whether dark mode or light mode is currently selected to change the theme accordingly	1 hour	Visa
4	If light mode is selected, keep current colors of the website but if dark mode is selected, change website colors to a darker theme	1 hour	Visa
5	Testing and Debugging	2 Hrs	Visa

### Acceptance Criteria:

- Given that the UI is implemented correctly, when the user enters the website, the appearance of the website will default to light mode.
- Given that the settings UI is implemented correctly, when the user enters the settings page, there should exist a toggle to switch between dark and light mode.
- Given that the toggle is implemented correctly, when the user switches from light to dark mode, the appearance of the website should change and switch to a darker appearance.



- Given that the toggle is implemented correctly, when the user switches from dark to light mode, the appearance of the website should change and switch to a lighter appearance.

### User Story #11

As a user, I would like to be able to hear sound effects from the website.

#	Description	Estimated Time	Owner
1	Implement sound effect for successful login.	2 hrs	Sai
2	Implement sound effect for generate playlist.	2 hrs	Sai
3	Implement sound effect for Spotify connect.	2 hrs	Sai
4	Testing and Debugging	2 Hrs	Sai

Acceptance Criteria:

- Given that authentication is set up, when the user logs in to their account, a sound effect will be played to indicate success.
- Given that Spotify authentication is set up, when the user grants access to their account, a sound effect will be played to indicate success.
- Given that playlist generation is functional, when the user clicks on generate playlist, a sound effect will be played to indicate completion.

### User Story #12

As a user, I would like to be able to see loading animations within the website.

#	Description	Estimated Time	Owner
1	Create loading pages that can be placed in appropriate locations.	1 Hr	Visa
2	Locate appropriate locations to place and embed loading animation	1 Hr	Shreya
3	Add loading pages to appropriate pages	1 Hr	Shreya
4	Testing and Debugging	1 Hr	Shreya

Acceptance Criteria:

- Given that the loading animations are implemented properly, when a user visits a page where information has not yet been queried, the user sees a loading animation.
- Given that the loading animation is implemented properly, when a user visits a page where information has not yet been queried, the previously queried data is not visible on the page.
- Given that the loading animation is implemented properly, when the user requested data is loaded, the loading animation is not visible anymore.

## Sprint 2 – Incomplete User Stories, Tasks, & Acceptance Criteria

### User Story #12

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

#	Description	Estimated Time	Owner
1	Complete in-depth research on how to develop and optimize algorithm that creates customized playlist	7 Hrs	Shreya, Sai, Vidya
2	Design algorithm to implement custom playlist generation based on user preferences	10 Hrs	Shreya, Sai, Vidya
3	Optimize algorithm to implement custom playlist generation based on external criteria (e.g. source location, destination, travel time)	10 Hrs	Shreya, Sai, Vidya
3	Store current playlist (i.e. name, songs, artists, length, etc) in the database	2 Hrs	Sai
4	Get custom link (includes research, debug, and redesign) and embed custom playlist on website UI	4.5 Hrs	Vidya, Sai
5	Debug algorithm with unit testing	5 Hrs	Shreya

Acceptance Criteria:

- Given that playlist generation is functional, when the user clicks on generate playlist, they are greeted with a new page informing them of details about the playlist (number of songs by top artist, predominant mood, etc.)
- Given that communication with the Spotify API is established, when the user specifies their current mood, it will be taken into consideration when making the playlist.
- Given that communication with the Spotify API is established, when the user specifies their source and destination, the travel time will be taken into consideration when making the playlist.
- Given that initial playlist generation is functional, when the user clicks on generate playlist, specific information like name, song, and artist will be stored in the backend.

# Remaining Backlog

## Sprint 3 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. As a user, I would like to be able to create a travel itinerary.
- 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 export my itinerary.
- l. 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.

- e. ~~I would like to be able to navigate through the website and access every appropriate page.~~

## 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.
- g. 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.