Sprint 2 Plan for Melody Tracks – Revision 1

Melody Tracks Team

7/13/20 – 7/19/20

Sprint Goal:

Continue progress on the various aspects of the project including audio processing, footstep tracking and accuracy, python integration into XCode, and UI elements. Should be ready or close to combining project areas into initial proof of concept app starting next sprint cycle.

Sprint Tasks:

1. User Story 1: "As a user, I want to listen to my favorite songs while jogging"
   a. Task 1: Download MP3 from Apple Music, store it somewhere app can access it
      i. Estimate: 3 SP
   b. Task 2: Make a process for user to add multiple songs at the same time
      i. Estimate: 5 SP
   Total Estimate: 8 SP
2. User Story 2: "As a developer, I need to know the BPM of the songs in order to manipulate the audio to match the pace of the user"
   a. Task 1: Set up execution of script to get the BPM of the MP3
      i. Estimate: 1 SP
   b. Assign a BPM to each of the songs
      i. Estimate: 2 SP
   c. Task 3: Store each of the MP3s into the app along with their respective BPM
      i. Estimate: 2 SP
   Total Estimate: 5 SP
3. User Story 3: "As a user, I want the app to change the BPM of a song to match my current pace because it provides motivation during exercise"
   a. Task 1: Determine a conversion for footsteps/sec to BPM
      i. Estimate: 2 SP
   b. Task 2: Connect the currently playing song to the manipulation program to adjust its BPM
      i. Estimate: 8 SP
   Total Estimate: 10 SP
4. User Story 4: "As a user, I want to be able to choose whether to jog at a steady or dynamic pace"
   a. Task 1: Implementing the UI interface (toggle between a set BPM or calculated from pace, add songs button, start jog button)
      i. Estimate: 5 SP
   b. Task 2: Integration with the ability to import songs portion of the app
      i. Estimate: 2 SP
   Estimate Total: 7 SP
5. User Story 5: "As a user, I want to navigate different songs I can play and see my jog process"
   a. Task 1: Create ability to change songs and integrate with play song functionality
      i. Estimate: 3 SP

      b.   Task 2: Implement map functionality to track user location history
          i.   Estimate: 3 SP
      c.   Task 3: Show current MPH speed
          i.   Estimate: 1 SP
      d.   Task 4: Merge functionality with jogging pace to changing BPM
          i.   Estimate: 3 SP
      Estimate Total: 10 SP

6. User Story 6: "As a user, I want to see the summary of my jog"
      a.   Task 1: Display final map view of current jog
          i.   Estimate: 2 SP
      b.   Task 2: Display calories burned & miles ran
          i.   Estimate: 5 SP
      c.   Task 3: Set up way to store user's data between sessions
          i.   Estimate: 8 SP
      d.   Estimate Total: 15 SP

7. User Story 7: "As a developer, I need the different UI pages complete so that backend work can link to the UI"
      a.   Task 1: Finish UI pages and UI setup
          i.   Estimate: 5 SP
      Estimate Total: 5 SP

Team Members:

1.   Michael Thompson: Scrum master, developer
2.   John Bae: Product owner, developer
3.   Daniel Loi: developer
4.   John Abendroth: developer

Initial Task Assignment:

1. Michael Thompson
      a.   User story 2
      b.   Initial Task: Finish BPM script and assigning BPM to songs
2. John Baer
      a.   User Story 3
      b.   Initial Task: Determine a conversion factor for footsteps/sec to BPM
3. Daniel Loi
      a.   User Story 4
      b.   Initial Task: Implement UI toggles and buttons for BPM setting
4. John Abendroth
      a.   User Story 5
      b.   Initial Task: Implement map functionality to UI page 2

User Stories	Not Started	In Progress	Completed
"As a user, I want to listen to my favorite songs while jogging"	Download MP3 from Apple Music, store it somewhere app can access it		
	Make a process for user to add multiple songs at the same time		
"As a developer, I need to know the BPM of the songs in order to manipulate the audio to match the pace of the user"	Set up execution of script to get the BPM of the MP3		
	Assign a BPM to each of the songs		
	Task 3: Store each of the MP3s into the app along with their respective BPM		
As a user, I want the app to change the BPM of a song to match my current pace because it provides motivation during exercise"	Determine a conversion for footsteps/sec to BPM		
	Connect the currently playing song to the manipulation program to adjust its		
As a user, I want to be able to choose whether to jog at a steady or dynamic pace	Implementing the UI interface (toggle between a set BPM or calculated from pace, add songs button, start jog button)		

	Integration with the ability to import songs portion of the app		
As a user, I want to navigate different songs I can play and see my jog process"	Create ability to change songs and integrate with play song functionality		
	Implement map functionality to track user location history		
	Show current MPH speed		
	Merge functionality with jogging pace to changing BPM		
"As a user, I want to see the summary of my jog"	Display final map view of current jog		
	Display calories burned & miles ran		
	Set up way to store user's data between sessions		
As a developer, I need the different UI pages complete so that backend work can link to the UI"	Finish UI pages and UI setup		

Scrum Times:

Weekly Meetings

1. Monday: 5:00pm
2. Wednesday: 5:00pm
3. Friday: 5:00pm
4. Sunday: 5:00pm

TA Meetings

1. Tuesday: 6:00pm
2. Friday: 4:00pm