CS 30700

**MelodyMunk**

Team 24: Sprint 2 Planning Document

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Table of Contents

[**Sprint Overview**](#_qu59lhbkuh1q) **4**

[Risks and Challenges](#_6wgzzjab94ap) 5

[**Current Sprint Details**](#_dmn7j2ge3xwo) **6**

[User Story #1](#_jolm8ubv7h4) 6

[Acceptance Criteria:](#_qhcdnd5nz7lr) 6

[User Story #2](#_1cei8hkhqsbz) 7

[Acceptance Criteria:](#_wlc40odq26n5) 7

[User Story #3](#_y0qtdda65pua) 8

[Acceptance Criteria:](#_gjnpe6ce5nne) 8

[User Story #4](#_cess9u1mcgmf) 9

[Acceptance Criteria:](#_59r921cq4vam) 9

[User Story #5](#_vwj107nobpdd) 10

[Acceptance Criteria:](#_xmsjaoubzufc) 10

[User Story #6](#_iggho7ocz254) 11

[Acceptance Criteria:](#_7o7s0iu7q4a) 11

[User Story #7](#_lr0nz8605tki) 12

[Acceptance Criteria](#_pjyca7lu168x) 12

[User Story #8](#_ot47fcwxvlso) 13

[Acceptance Criteria](#_y5voipsk8rii) 13

[User Story #9](#_uegn9g7q6h40) 14

[Acceptance Criteria:](#_ujymrbrtwj95) 14

[User Story #10](#_up8xfjs2ak5l) 16

[Acceptance Criteria](#_ampv6yhkxhbo) 16

[User Story #11](#_dv1a3fk9y9je) 18

[Acceptance Criteria](#_27u1pkhflmzz) 18

[User Story #12](#_895ww36918hp) 20

[Acceptance Criteria](#_crgow7dd48my) 20

[User Story #13](#_esmhd3uh5kqv) 21

[Acceptance Criteria](#_e2zmco8f7f1p) 21

[User Story #14](#_bgnnx2q2zvpu) 22

[Acceptance Criteria](#_bmrycw7jfhs0) 22

[User Story #15](#_wqmntjdtgblj) 23

[Acceptance Criteria](#_icik4oak2z3f) 23

[User Story #16](#_wcwmdtflkztq) 24

[Acceptance Criteria](#_qobt5hvmtw6z) 24

[**Remaining Backlog**](#_jixobh1qnoyc) **25**

[Functional Requirements](#_5eums99gdhg2) 25

[Non-functional Requirements](#_kzc882smpk0u) 27

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# Sprint Overview

In sprint 2, we will be focusing on expanding the features on MelodyMunk and combining everything together into one robust user experience. This will include profile customization, playlist management, audio playback and UI/UX work. By the time we complete this sprint, our goal is to have a working application with a simple user experience.

**Team Leader:** Tristan Pickett

**Meeting Schedule:** Tuesday/Thursday 9pm, Sunday 4pm

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### Risks and Challenges

One of the biggest challenges with this sprint will be organization. After completing sprint 1, the foundation of the platform has already been created so we need to ensure that our commits not only work properly with the current platform but also between the new tasks each of us are working on. Unlike sprint 1, the tasks in sprint 2 relate very closely with each other so we will need to make sure we’re organized and communicate with each other during development. This is so when it’s time to merge, we can do so without any complications.

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# Current Sprint Details

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## User Story #1

As a general user, I would like to upload a profile picture to my profile.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| **1.** | Create AWS S3 Bucket for storing images | 1 Hour | Matt |
| **2.** | Setup permission policies on S3 bucket | 2 Hours | Matt |
| **3.** | Install AWS-PHP API Bundle on project | 2 Hours | Matt |
| **4.** | Add image URL to User entity and DB | 1 Hour | Matt |
| **5.** | Create upload controller to upload files and images to S3 bucket | 3 Hours | Matt |
| **6.** | Create UI for uploading image to profile | 1 Hour | Matt |

### Acceptance Criteria:

* Given that the AWS S3 bucket is created, when I login the AWS console, then I can view the bucket and all it’s content.
* Given that the S3 bucket permission policies are configured correctly, when I make an API call to the bucket, it will return a success response.
* Given that there is an image URL field on the User entity, when I edit the image URL, then it will be saved to the User in the DB.
* Given that the upload controller is implemented correctly, when I upload a photo on the profile settings page, the user will have a saved profile picture.

## User Story #2

As a general user, I would like to submit DJ reviews to hosts of a playlist.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| **1.** | Create DJ Review Entity and DB Table | 2 Hours | Matt |
| **2.** | Create Review Controller to handle submitting a new DJ Review | 3 Hours | Matt |
| **3.** | Create DJ Review Form | 1 Hours | Matt |
| **4.** | Add DJ Reviews to the user profile UI | 3 Hours | Matt |
| **5.** | Create UI for submitting new DJ Reviews | 2 Hours | Matt |
| **6.** | Test to ensure submitting DJ Review is working properly | 1 Hour | Matt |

### Acceptance Criteria:

* Given that the DJ Review entity and table in the DB is created, when I add row the DJ review table, then a query can pull the review for that user.
* Given that the Review Controller is implemented successfully, when I submit a DJ Review with valid input, then a review will be added to the user.
* Given that the DJ Reviews UI is created, when I open my profile page, then I will see all the reviews for the user.

## User Story #3

As a general user, I would like to be able to see who is in the room and report guests for to playlist admins.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| **1.** | Create User Report entity and DB table | 2 Hours | Matt |
| **2.** | Create Report Controller in BE to handle submitting reports | 2 Hours | Matt |
| **3.** | Implement feature to allow users to see who is the room | 3 Hours | Matt |
| **4.** | Create UI for reporting a playlist guest | 2 Hours | Matt |
| **5.** | Create UI for playlist admins to see reported guests | 2 Hours | Matt |
| **6.** | Test to ensure flow of reporting user is working properly | 1 Hours | Matt |

### Acceptance Criteria:

* Given that the User Report entity and table in DB is created properly, when I add a row to the DB table, then a query can pull all the reported guests for the playlist.
* Given that the Report Controller is implemented successfully, when I report a guest, then a new guest report will be created and saved.
* Given that the UI for reporting a playlist guest is created, when I am in a playlist, then I can view all users in the room and click report guest on a user in the playlist.
* Given that the UI for viewing reported guests is created, when I open the playlist as an admin, then I will see all the guests who were reported.

## User Story #4

As a general user, I would like to be able to play songs from spotify in my browser

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| **1.** | Enable browser to play audio | 2 hrs | Avnish |
| **2.** | Create User Interface to play songs | 3 hrs | Avnish |
| **3.** | Connect with Spotify API to play songs in browser | 3 hrs | Avnish |
| **4.** | Unit Testing for playing songs in browser | 1 hr | Avnish |
| **5.** | Error handling for playing songs in browser | 2 hrs | Avnish |

### Acceptance Criteria:

* Given that you want to play a song while on the website, then you will be able to hear the song play.
* Given that a song is playing, then it will be the song that you requested to play.
* Given that a the play button is pressed, then a song will start playing.

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## User Story #5

As a general user, I would like to be able to pause, fast forward and raise the volume of the songs I am playing from spotify

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| **1.** | Connect pausing with spotify api | 2 hrs | Avnish |
| **2.** | Connect fast forwarding with spotify api | 2 hrs | Avnish |
| **3.** | Connect raising volume with spotify api | 2 hrs | Avnish |
| **4.** | Error handling and unit testing for pausing,fast forward and raising volume | 2 hrs | Avnish |
| **5.** | UI for pausing, fast forwarding and raising volume | 3 hrs | Avnish |

### Acceptance Criteria:

* Given that the pause button is pressed, then the song will be paused.
* Given that the volume slider is raised, then the volume of the song playing will be raised.
* Given that the fast forward slider is moved, then the song being played is fast forwarded through.

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## User Story #6

As a general user, I would like to be able to manage my spotify account from rooms

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| **1.** | Rewrite authentication code from backend javascript to php | 5 hrs | Avnish |
| **2.** | Make api calls from ajax | 1 hrs | Avnish |
| **3..** | Populate Song entity with calls from spotify api | 2 hrs | Avnish |
| **4..** | Make get song api call from php backend | 1 hrs | Avnish |

### Acceptance Criteria:

* Given that you are in a room, then you will be able to interact with songs from spotify.
* Given that you are interacting with songs, then the relevant data from the song will be recorded.
* Given that the UI makes a request to the Spotify API, then the relevant ajax and php calls will be made in the backend.

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## User Story #7

As a party guest I want to be able to join a room.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| **1.** | Create database relations to track a room and users inside | 3 hours | Elizabeth |
| **2.** | Create helper functions to update room attributes and add/remove users | 3 hours | Elizabeth |
| **3.** | Create module to find room identified by URL | 5 hours | Elizabeth |
| **4.** | Create UI to join and create rooms | 3 hours | Elizabeth |

### Acceptance Criteria

* Given a host wishes to remove a specific user, then they are given the option in UI to do so.
* Given a user wishes to find a room identifiable by a URL, then they are given a module to search for the room and join it.
* Given a developer wishes for clear relations within the database, then they will have access to clear cut relationships for a given room and the users which reside in it.

## User Story #8

As a host, I would like to specify users as admins.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| **1.** | Interface module with UI to allow host (or admin) to specify a user as an admin | 3 hours | Tristan |
| **2.** | Interface module with database to save and retrieve preferences across sessions | 3 hours | Tristan |
| **3.** | Unit test to verify promotion to admin | 1 hour | Tristan |

### Acceptance Criteria

* Given that a host wishes to promote a user’s privileges, then when they are given the UI option to set that user’s permissions, including promotion to admin.
* Given that the module is designed correctly, when permissions are added or updated, the corresponding rows in the database are updated so that the permissions persist.
* Given that the UI is designed successfully, when a host goes to update the permissions set for a room, they will be met with a checklist for each role’s possible permissions.

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## User Story #9

As a developer, I would like better performance and usability for my local testing environment (virtual machine).

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| **1.** | Research optimizations for Vagrant | 3 hr | Brooks |
| **2.** | Test some of the possible improvements | 3 hr | Brooks |
| **3.** | Incorporate optimizations into Vagrantfile so that other team members can get them | 2 hr | Brooks |
| **4.** | Add some useful bash customizations | 2 hr | Brooks |
| **5.** | Test Vagrantfile with fresh virtual machine to ensure changes are working correctly | 1 hr | Brooks |

### Acceptance Criteria:

* Given that I am using my locally hosted test environment, when I access page, I should get a load time of less than 5 seconds.
* Given that the configuration and optimization is integrated into the vagrantfile, when I instantiate a virtual machine with `vagrant up`, it should automatically be optimized
* Given that there are useful bash aliases, I should have bash aliases inside the VM for common tasks like starting and stopping the server, and compiling stylesheets
* Given that there is sufficient customization, I should have a bash prompt inside the VM with some color to make it more readable, and tell me that I am inside the virtual machine
* Given that the customization is done correctly, when I want to add or change the customization, it should be easy to change them and share those changes with the other team members.

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## User Story #10

As an admin, I would like to be able to restrict room access to specific users

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| **1.** | Add database relationships to track a whitelist and blacklist of users per room | 4 hours | Brooks |
| **2.** | Create functions to add and remove users from white/blacklist | 3 hours | Brooks |
| **3.** | Allow the room to be switched between blacklist mode, whitelist mode, or neither | 2 hours | Tristan |
| **4.** | When attempting to add a user into a room, verify the user is allowed based on the current restriction mode | 1 hour | Tristan |
| **5.** | Unit testing to ensure restrictions hold | 1 hour | Tristan |

### Acceptance Criteria

* Given that I am a host, when I desire to restrict access, then I can switch between various user restriction modes to my liking.
* Given that a user attempts to join a room, when they connect to the URL, then it is determined if they are a valid user.
* Given that a user is blacklisted in a room in blacklist mode, when they try to join, then they are shown an error message.
* Given that a user is not whitelisted in a room in whitelist mode, when they try to join, then they are shown an error message.

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## User Story #11

As a user I would like to have a user-friendly website interface.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| **1.** | Design room info page | 4 hours | Shrikar |
| **2.** | Design playlist page | 8 hours | Shrikar |
| **3.** | Design chat page | 5 hours | Elizabeth |
| **4.** | Create Notification Settings (Melody Munk news/updates) | 3 hours | Shrikar |

### Acceptance Criteria

* Given the requirement of a login page to access our web application, when I want to log in, I would like to implement two separate text fields, one for username and one for password, with a button to initiate authentication.
* Given access to a room, when view the room I would like to see a list of users, a room photo, and the room title.
* Given access to a room, when I select a playlist, then I would expect a banner showing the current song, songs in the queue, a pop-up search option, and the ability to upvote songs in the queue.
* Given access to a room, when I would like to communicate with other users, then I would expect a chat interface where users are easily distinguished through the use of usernames and color.

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## User Story #12

As a host I would like UI for room specific actions and functions (cleanup of some UI related tasks from previous sprints).

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| **1.** | Create UI for seeing QR code for a room | 3 hours | Brooks |
| **2.** | Create UI for printing a QR code for a room | 3 hours | Brooks |
| **3.** | UI for specifying list of guest and admin actions allowable (likely under room settings->advanced settings) | 3 hours | Tristan |
| **4.** | UI for promoting users to admins | 3 hours | Tristan |

### Acceptance Criteria

* Given that the QR ui is done, I should be able to click a button to see the QR code for a room
* Given that the QR code is easily printable, when I try to print one, it should print a QR code readable by smartphones and in a sufficient size
* Given that I go into a configuration page for a room, when I want to update permissions for a room, I can check boxes for each permission pertaining to a role, and have it update the database

## User Story #13

As a user, I would like easy access to settings, and be able to set the mood (i.e. an audio visualizer) depending on the theme/genre of the music being played. The ability to access my profile information and edit information about myself as and when required.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| **1.** | Create User Settings UI | 4 hours | Shrikar |
| **2.** | Create a music visualizer (WebGL Audio Visualization) | 6 hours | Shrikar |
| **3.** | UI for Account Overview (i.e. Profile information:- Username, email, dob, country) | 3 hours | Shrikar |
| **4.** | UI for Edit Profile / Change Password | 2 hours | Shrikar |

### Acceptance Criteria

* Given access to user settings, as a user, I would like to be able to change my password and see my account overview.
* Given access to a room, as a user, I would like a background music visualizer to be displayed depending on the theme of the music being played (eg. EDM, rock etc)

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## User Story #14

As a user, I would like to have a mobile-friendly website interface.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| **1.** | Make UI for mobile friendly room page with slide out tabs | 2 | Elizabeth |
| **2.** | Make UI for mobile friendly chat tab in the room page | 3 | Elizabeth |
| **3.** | Make UI for mobile friendly playlist tab in the room page | 2 | Elizabeth |
| **4.** | Make UI for mobile friendly room info tab in the room page | 2 | Elizabeth |

### Acceptance Criteria

* Given a user is on the room page, there are slide out tabs from a top bar displaying the chat page, the playlist, and the room info page.
* Given a user is on the chat tab, there are chat bubbles with icons, usernames, and the message in addition to a text field and send button, and a sticky banner at the top for admin announcements.
* Given a user is on the playlist tab, they are able to view the current playlist, sort songs by time submitted, score, and votes, and are able to search and add songs.
* Given a user is on the room info tab, they are able to see the room title, the list of users in the room, and room settings (if applicable).

## User Story #15

As an admin, I would like a playlist feature that continues playing songs even when the playlist empties.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| **1.** | Create playlist data structure | 4 hours | Tristan |
| **2.** | Check if playlist has finished all songs in the playlist | 2 hours | Tristan |
| **3.** | If playlist is empty start playing radio based off last song to be played. | 3 hours | Tristan |
| **4.** | Privileged users given the ability to remove song from the playlist queue | 4 hours | Tristan |

### Acceptance Criteria

* Given a user with proper permissions adds a song to the playlist, then the song is fetched and appended to the playlist data structure.
* Given a playlist is empty, then a call to the Spotify API will fetch a station based around the last song played until more songs are added to the playlist.
* Given a user with proper permissions attempts to remove a song from the queue, then the song fetch in the playlist data structure will be removed and all subsequent songs bumped up a spot.

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## User Story #16

As a user, I would like a text based chat for each room.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| **1.** | Create database entities for chat entries | 2 hours | Brooks |
| **2.** | Create functions to entering and retrieving chat messages | 3 hours | Brooks |
| **3.** | Create controller for exchanging chat messages with front end asynchronously | 3 hours | Brooks |
| **4.** | Create basic UI structure for chat testing | 3 hours | Brooks |
| **5.** | Create frontend functionality for displaying messages in a room and exchanging with server | 3 hours | Brooks |

### Acceptance Criteria

* Given that a user makes a request to the chat controller, if I make a chat message, it will be inserted into the database.
* Given that a message is sent to the database, if a user is viewing the chat UI, then the message should appear

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# Remaining Backlog

### Functional Requirements

* As a party host
  + ~~I would like to play songs my guests like~~
  + I would like the option to restrict songs to non-explicit versions
  + I would like the option to restrict songs to certain genres, artists, or Youtube channels (e.g. VEVO channels)
  + I would like the option to show the video feed from the current song if there is one (youtube videos)
  + I would like to be able to log in with a Facebook account, and have preferences accounts)for rooms saved
  + ~~I would like to be able to restrict room access to specific users~~
  + ~~I would like the option to enable a text chat for the room~~
  + I would like to be able to restrict chat to only admins (for announcements)
  + ~~I would like to be able to specify a list of actions guests and admins have permission to take~~
  + I would like a constant flow of music
  + I would like to set a suggested genre of music to be played (classical, pop, kids, dance, etc.)
  + ~~I would like to be able to easily share a link to join a created room (QR code, URL)~~
  + ~~I would like the option to display a visualizer for the currently playing music~~
  + ~~I would like for songs to autoplay if the playlist is empty~~
  + ~~I would like to specify users as admins~~
  + I would like to notify people that I have to started a party via Facebook, Twitter etc
  + I would like to set a mood for the room
  + ~~I would like to generate a QR code that can be displayed on a screen or printed to share with guests~~
* As an admin
  + ~~I would like to be able to ban specific users from chatting~~
  + ~~I would like to be able to ban specific guests from modifying the playlist or suggesting songs~~
  + ~~I would like to remove undesired songs (Think... What’s New Pussycat playing 21 times in a row, Rickrolls, etc.)~~
* As a professional DJ (all sub-bullets if time allows)
  + I would like to advertize my skills
  + I would like to share clips of my work
  + I would like to have aggregate reviews available from past performances
  + I would like live reviews to come in to gauge audience reactions
* As a general user
  + ~~I would like to create and login to an account on MelodyMunk.~~
  + ~~I would like to customize my account and link my Spotify account to it.~~
  + I would like to have niche music available to play (if time allows) (Use Spotify, Soundcloud, Youtube)
  + ~~I would like to have a mobile-friendly website interface~~
  + ~~I would like to be able to search for songs~~
  + ~~I would like to be able to vote on songs~~
  + ~~I would like to upload a profile picture~~
  + ~~I would like to be able to write reviews on the party host or DJ~~
  + ~~I would like to be able to report other party guests to the admins~~
* As a party guest
  + I would like to sign a guestbook to leave a note when I’m leaving the party (if time allows)
  + ~~I would like to suggest songs~~
  + ~~I would like to join a room quickly and easily (QR code or URL)~~
  + I would like my song to be played in a reasonable amount of time
  + I would like suggestions for songs that I may be interested in adding
  + I would like to be alerted when my song is going to be played next (If time allows)
* As a developer
  + I would like to account for host throttling to ensure users aren’t blocked from Spotify

### Non-functional Requirements

* ~~Connection to Spotify music streaming service~~
* Expand to connecting with Soundcloud or Vevo Youtube (if time allows)
* Run smoothly without delay from the website in accordance to limitations set by 4g cell service
* ~~Secure user profiles and user data~~
* Banning specific users from rooms can utilize IP bans or website profile bans
* Website must be able to handle at least 250 users at any given time
* We would like to have high quality music playing (minimum 128 kbps bitrate)
* A way to test whether or not the service is functioning properly