Project Specification

Product backlog:

Auth module:

1. Login: There are two login methods. One is to use the normal login approach(i.e. Username and password), the other is to use the Google and Facebook authentication system in which the user will authenticate the website with the access privileges to their profile. Once logged in, the user will be automatically redirected to their home page.

2. Signup: User can signup with their chosen username, password, email, self-introduction, etc. Necessary integrity checks will be performed here(e.g. No duplicated username).

3. Logout: A user can quit its session by the logout function. Once logged out, it will be redirected to the sign in page.

4. Email Confirmation: Once a user has signed up, in order to become active, the user has to click on the link in the confirmation email which is sent to the email address contained in the user's profile.

5. Forgotten password: The user can reset their password by clicking on the link contained in the email which is sent to their registration email address.

User module:

1. Home: Index page with respect to each individual user. This page will contain core information about this user and its music collection lists. The user can create new playlist from this page.

2. Music Repo: Page that lists all musics within one music collection list. It shows relative information of this collection(e.g. Name, creation date, total audio track number) and information about each music track(e.g. Name, artist, duration). The user can edit the information about the collection list and the music in this page. Specifically, by double clicking on one music track, the user will be routed to the music playing page with a particular playlist identical to this collection list but the playing process will start from this music. The user can upload new music to the repo in this page as well.

3. Profile Edit: Dedicated page used to edit all information about one particular user. The user can close their account here.

Music module:

1. Play: Page that will actually play the selected music for the user. Associated lyric will be displayed as well either from user's upload or from Internet. There are three playing mode that can selected from: sequential, random and cyclic.

2. Share: The users can share the music they love and add some several lines of comment as a post, this post is visible to all of their friends. The friends can add some comments to this share post.

3. Search: Users can search musics contained in repo by their names. If the desired result shows up and is clicked, this music will be played immediately and inserted to the end of the playlist.

Social module:

1. Follow: One user can search for another user by its username and then follow this user. A user can see all share-posts of all its followers.

2. Message: One user can start to send message to another user by the button on some certain friend's profile page. If one user receives message from others, he or she can get noticed by the message icon on navigation bar and one can go to the message page to reply the messages.

Product owner of first sprint:

Yayun Huang (Andrew ID: yayunh)

First sprint backlog:

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Data models

1. User model:
   We will just use the built-in django.contrib.auth.model.User.
   Specifically, it is as the following:

   Class User:
   Username: required
   Firstname: optional
   Lastname: optional
   Password: required
   Email: optional
   Is_active: boolean

2. Music model:

Class Music:
Name: Charfield required
Artist: Charfield optional
Content: Filefield required
User: Foreignfield required
List: ManytoManyfield optional

3. Profile model:
> *Class Profile:*
> *User: Foreignfield required*
> *Image: Filefield optional*
> *Bio: Charfield optional*

4. Post model:
> *Class Post:*
> *Music: Foreignfield required*
> *Content: Charfield optional*
> *User: Foreignfield required*
> *Date: DateTimefield required*

5. Comment model:
> *Class Comment:*
> *User: Foreignfield required*
> *Post: Foreignfield required*
> *Content: Charfield required*
> *Date: DateTimefield required*

6. List model:
> *Class List:*
> *Music: ManytoManyfield optional*
> *Name: Charfield primary*
> *User: Foreignfield required*
> *Date: DateTimefield required*

7. Message model:
> *Class Message:*
> *From: Foreignfield required*
> *To: Forignfield required*
> *Content: Charfield required*
> *Date: DateTimefield required*
> *Is_read: boolean required*

HTML mock-ups:

Homepage:

| Player | Friend Stream | My Profile | Add Post | ⊠ User ▼ | search |

Upload Song

Player

Subpages:

1. Friend Stream

| Player | Friend Stream | My Profile | Add Post | User ▼ | search |

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Song
Add to Player List

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Song
Add to Player List

a. Friend's Profile

| Player | Friend Stream | My Profile | Add Post | ⊠ User ▾ | search |

UserName

Send Message

| Email | | Gender | |
| Age | | Friend Num | |

Bio-info

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Song

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Song

2. My Profile

| Player | Friend Stream | My Profile | Add Post | User ▾ | search |

UserName

Edit

| Email | | Gender | |
| Age | | Friend Num | |

Bio-info

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Song

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Song

a. Edit Profile

Upload Image

UserName

Age   Gender

Bio-info

Submit

3. Add Post

Upload Song Image

Song   Upload Song

Post Content

Submit

4. Private Message

| Player | Friend Stream | My Profile | Add Post | ⊠ | User ▼ | search |

UserName

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Reply

UserName

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Reply

5. Search By User or Song
   a. Search by Song

| Player | Friend Stream | My Profile | Add Post | Song ▼ | search |

Song
Add to Player List

Song
Add to Player List

   b. Search by User

navigation

| Player | Friend Stream | My Profile | Add Post | Song ▾ | search |

UserName [X]   Gender [X]

Age [X]   Friend Num [X]

Bio-info [X]

Add to Friend

UserName [X]   Gender [X]

Age [X]   Friend Num [X]

Bio-info [X]

Add to Friend