



Cloud Music Player

Sprint 3 Planning Document

Team 30

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Sprint Overview

For this third sprint, we would like to finish up all the 15 stories that are left for our project. We will try to finish up music player implementation, as well as more interactions with playlists.

Scrum Master: Guojie Wen

Risk and Challenges

Although the team is getting more familiar to web development now, it will still take a good amount of time for some members to deliver the stories. Sprint 3 contains a large amount of stories, therefore it is more challenging for the team to finish all 15 of them in this sprint.

Current Sprint Detail

User Story #12

As a user, I would like to pause and resume a song as long as the application is not closed.

Tasks	Time	Owner
Be able to pause the song by clicking the pause icon	6	Pengyu Chen
Be able to resume the song by clicking the play arrow	6	Pengyu Chen
Be able to switch the play arrow to pause icon	6	Pengyu Chen
Test if the song can be paused and resumed	2	Pengyu Chen

Acceptance Criteria:

- Given that user is playing music, when user clicks the pause icon, then the song will stop playing.
- Given that the song is not playing, when user clicks the play icon, then the song will resume playing.

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- Given that it is a play arrow on the Music Play Page, when user clicks the play arrow, then the play arrow disappears and changes to pause icon.

User Story #13

As a user, I would like to adjust the volume of the playing song.

Tasks	Time	Owner
Add scroll bar like icon to current music player	5	Dai Zhong
Add volume to UserReducer and volume action to UserAction	3	Dai Zhong
Use UserAction in MusicPlayer	2	Dai Zhong
Test if changing volume works correctly	1	Dai Zhong

Acceptance Criteria:

- Given that the music player is implemented correctly, when the user clicks the sound scroll in any position except for the previous one, then the scroll bar should move to the clicking position and the volume should be changed according to the position.
- Given that the music player is implemented correctly, when the user drags the scroll bar left or right, then the scroll bar should follow the user's mouse and the volume should be adjusted according to the position.
- Given that the music player is implemented correctly, when user is changing the position of the scroll bar, then the volume should be increased if the current

position is located in the right side of the previous one, decreased if the current position is located in the left side of the previous one.

User Story #14

As a user, I would like to have a button to mute the sound on click.

Tasks	Time	Owner
Be able to mute the sound by clicking the sound button	6	Pengyu Chen
Be able to resume the sound by clicking the mute sound button	6	Pengyu Chen
Be able to change the image of the sound button to mute sound button when clicking the sound button	6	Pengyu Chen
Test if the volume is 0	2	Pengyu Chen

Acceptance Criteria:

- Given that user is playing music, when user clicks the sound icon, then the sound will become mute.
- Given that user is playing music, when user clicks the mute sound button, then the sound will be resumed.
- Given that it is a sound button on the Music Play Page, when user clicks the sound button, then the sound button will disappear and change to mute sound button.

User Story #15

As a user, I would like to be able to create a separate favorite playlist.

Tasks	Time	Owner
Implement the functionality to create a new playlist	4	Zhe Chen
Implement the functionality to make the new playlist name appearing in the left side of the music player page	4	Zhe Chen
Implement the functionality to update the music player list at the Firebase backend	6	Zhe Chen
Implement the 'add new list' button UI	3	Guojie Wen
Test adding playlist functionality	1	Zhe Chen

Acceptance Criteria:

- Given that a user would like to create a new favorite playlist, when he or she clicks the 'add new list' button in the music player page, then a new window should pop up.
- Given that the window pops up, the user may enter the name of the favorite playlist and create an empty playlist in the firebase backend. And the music file list information in firebase should be updated as well.

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- Given that the music file list information in firebase was updated, the user will be able to view their new created favorite list at the left-side of the music player interface.

User Story #16

As a user, I would like to be able to delete songs from playlist.

Tasks	Time	Owner
Implement the 'delete' button UI	3	Zhe Chen Guojie Wen
Implement the functionality to delete the music file from the firebase	4	Zhe Chen
Implement the functionality to remove the music file from the current play list	5	Zhe Chen
Be able to update the current play list	4	Zhe Chen
Test deleting songs functionality	1	Zhe Chen

Acceptance Criteria:

- Given that a user would like to delete a song from the current playlist, when he or she clicks the 'delete button in the music player page, then the song will disappear from the list.
- Given that the song was deleted, the current play list will update the whole list and that song will be removed from the music playlist.
- Given that the song that was deleted before, the music file list information in firebase was updated, and from the firebase backend the technicians will be able to see the updated music file information.

User Story #17

As a user, I would like to be able to switch listening mode of the playlist like random, single, or in order.

Tasks	Time	Owner
Add listening mode icons in Music Player	1	Guojie Wen
Implement functions to change listen mode icon when clicking	4	Dai Zhong
Implement play next and previous of each listening mode	4	Dai Zhong
Test if listening mode changing works	1	Dai Zhong

Acceptance Criteria:

- Given that the music player is implemented correctly, when the user enters the music player page, the listening mode should be "playlist repeat".
- Given that the music player is implemented correctly, when user clicks the listening mode icon, the listening mode should change between "playlist repeat", "shuffle", "single repeat"
- Given that the music player is implemented correctly, when the user clicks the listening mode icon, the listening mode icon should change between three different icons stated in the criteria above.

User Story #18

As a user, I would like to be able to switch songs in the playlist by clicking “left arrow” and “right arrow” buttons beside the “play” button.

Tasks	Time	Owner
Be able to see the left arrow and right arrow on the Music Play Page	1	Pengyu Chen
Be able to go to the next song by clicking the right arrow	6	Pengyu Chen
Be able to go to the last song by clicking the left arrow	6	Pengyu Chen
Test if we can go to the next song and last song	2	Pengyu Chen

Acceptance Criteria:

- Given that user has logged in, when the user is in Music Play Page, then the user can see both the left arrow and right arrow.
- Given that user is playing music, when user clicks the left arrow, then the player will play the last song.
- Given that user is playing music, when user clicks the right arrow, then the player will play the next song.

User Story #20

As a user, I would like to be able to see the song image in the player interface.

Tasks	Time	Owner
Get downloading URL of the current playing music	1	Dai Zhong
Get metadata of the music with jsmediatags by URL	4	Guojie Wen
Extract image URL from metadata	1	Dai Zhong Guojie Wen
Show image in the music player	3	Guojie Wen
Test showing image functionality	1	Dai Zhong Guojie Wen

Acceptance Criteria:

- Given that the music player page is implemented correctly, when the user clicks on music in the playlists, then the user should see music image on the right.
- Given that the music player page is implemented correctly, when the user clicks some other music in the playlist, then the user should see the music image associated with the music on the right.

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- Given that the music player page is implemented correctly, when the user goes into music player page in the first place, the image part should show a music note icon.

User Story #21

As a user, I would like to share my music and playlist to social media like facebook, twitter, etc.

Tasks	Time	Owner
Be able to generate the sharing string	6	Guojie Wen
Setup react-router to receive sharing string	6	Guojie Wen
Be able to add a new playlist based on the sharing string	6	Guojie Wen
Test functionality for adding playlist through link	1	Guojie Wen

Acceptance Criteria:

- Given that user has logged in, when user shares a playlist, then the application is able to generate a url and copy to clipboard.
- Given that user has logged in, when user opens the generated url, then the application is able to process the url and generate a new playlist from it.
- Given that user has logged in, when user plays a song from the added playlist, then the application is able to play the added music.

User Story #24

As a user, I would like to be able to click a button on the top of the screen to expand and show the playlists from the left.

Tasks	Time	Owner
Add toggle on navbar	2	Guojie Wen
Add toggle functionality in Redux	6	Guojie Wen
Test toggle display	1	Guojie Wen
Test if sidebar shows when toggle is clicked	1	Guojie Wen

Acceptance Criteria:

- Given that user has logged in, when user shrinks the screen, then toggle shows on navbar
- Given that user has logged in, when user clicks the toggle, then user is able to show sidebar
- Given that user has logged in, when user expands the screen, then toggle is able to hide

User Story #25

As a user, I would like to be able to be prompted about file not existing if the song I play from playlist no longer exists

Tasks	Time	Owner
Be able to detect error when user clicks on a new song	3	Guojie Wen
Be able to detect error when user plays the song	3	Guojie Wen
Test application is able to show error notification	1	Guojie Wen

Acceptance Criteria:

- Given that user has logged in, when user plays a song that is deleted from Google Drive, then application is able to show the error
- Given that user has logged in, when application shows the error, then notification shows with animation
- Given that user has logged in, when user clicks the error notification, then notification is able to dismiss

User Story #26

As a user, I would like to be able to have a button in the music panel to add the currently playing song to a different playlist

Tasks	Time	Owner
Add the button in music player	2	Guojie Wen
Add capabilities to show all playlists as buttons in context menu	2	Guojie Wen
Add the firebase functionalities to add selected song to playlist	3	Guojie Wen
Test if song actually adds	1	Guojie Wen

Acceptance Criteria:

- Given that user has logged in, when user plays a song, then the button to add to playlist shows
- Given that user has logged in, when user clicks on the button, then menu can show all of user's playlists
- Given that user has logged in, when user clicks on a playlist to add the selected song to that playlist, then user can see the song added to that playlist

User Story #27

As a user, I would like to be able to show options for each song

Tasks	Time	Owner
Be able to show options when user hovers on a song	3	Guojie Wen
Be able to show different functionalities for each song	2	Guojie Wen
Test if parameters are passed to menu	1	Guojie Wen

Acceptance Criteria:

- Given that user has logged in, when user hovers on a song, then application is able to show the options for that song
- Given that user has logged in, when user right hovers on a different song, then application is able to show the options for that new song and hide the previously shown options
- Given that user has logged in, when user clicks on one of the options, then application is able to perform actions to that specific song

User Story #28

As a user, I would like to be able to add the selected song to a different playlist on the hover menu

Tasks	Time	Owner
Implement the button UI	3	Zhe Chen
Implement the functionality to be able to select songs	4	Zhe Chen
Implement the functionality to update the playlist that is added the song.	4	Zhe Chen
Implement the functionality to refresh the playlist information on firebase	4	Zhe Chen

Acceptance Criteria:

- Given that music player is implemented functionally, when the users move the mouse on the song, they are able to view the options.
- Given that cloud music player is implemented functionally, when the users would like to add new songs to an existing play list, they will be able to select the song from the current music player page, and choose the ideal playlist from the right panel to add this song.

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- Given that music player is implemented functionally, when the users add new songs to an existing playlist from the right panel, the technicians will be able to view the information of updated current playlist and the playlist that was added the music file from the firebase backend.

User Story #30

As a user, I would like to be able to change the progress of a song by dragging the progress bar.

Tasks	Time	Owner
Be able to get music progress information by getting song's length in metadata	3	Dai Zhong
Show music length beside progress bar	2	Dai Zhong
Add scroll bar representing current music playing progress	2	Dai Zhong
Add scroll bar position and music length to UserReducers	3	Dai Zhong
Implement functions to achieve jump in music	5	Dai Zhong
Test functionality of the progress bar	1	Dai Zhong

Acceptance Criteria:

- Given that the music player is implemented correctly, when the user is playing the music, then the music length should be shown beside the progress bar.
- Given that the music player is implemented correctly, when the user is playing the music, then the bar representing the music playing progress should be changed accordingly.

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- Given that the music player is implemented correctly, when the user drags the progress bar, then the music progress will be changed accordingly when the user stops dragging
 - Given that the music player is implemented correctly, when the user clicks on some positions in the progress bar, then the music progress will be changed according the clicking position.

Remaining Backlog

29	As a user, I would like to be able to select multiple songs in a playlist to add the songs into a different playlist (if time allows)
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