

## Let's discover music!

Using below listed APIs, build an iOS app or an Angular web app that will allow the users to search for and discover music.

APIs:

To search for all Jack Johnson audio and video content (movies, podcasts, music, music videos, audiobooks, short films, and tv shows):

<https://itunes.apple.com/search?term=jack+johnson>

Look up an artist by iTunes artist ID:

<https://itunes.apple.com/lookup?id=909253>

Look up all albums for an artist:

<https://itunes.apple.com/lookup?id=909253&entity=album>

Look up an album by its collectionId:

<https://itunes.apple.com/lookup?id=1459409129&entity=song>

Look up an album or video by its UPC:

<https://itunes.apple.com/lookup?upc=720642462928>

Note: Feel free to use any other APIs listed at <https://affiliate.itunes.apple.com/resources/documentation/itunes-store-web-service-search-api/#lookup>

## Business requirements:

1. App should allow user to **search for music using artist name, song title, or album name**
2. **Search Results** section should display the results in 2 sections:
  - a. Artists
    - i. Display artist thumbnail
    - ii. Hyperlink to “Artist Details Page”
  - b. Albums
    - i. Display album cover thumbnail
    - ii. Hyperlink to “Album Details Page”

3. App should **persist 5 most recent searches** and display them on the main screen in the “**Recent Searches**” section. **User should be able to see their recent searches on subsequent uses of the app.**
4. App should allow user to favorite up to 5 albums, artists, or songs. App should display these in the “**My Favorites**” section. **User should be able to see their favorites on subsequent uses of the app.**
5. User should be able to tap/click on any of the artists or albums
6. “**Artist details Page**” should display:
  - a. Artist name
  - b. Favorite button (tapping on this will add/remove the artist from the favorites)
  - c. All of artist’s albums (display album cover thumbnail for each album)
7. “**Album Details page**” should display:
  - a. Album name
  - b. Favorite button (tapping on this will add/remove the album from the favorites)
  - c. Artist
    - i. display artist thumbnail
    - ii. Hyperlink to the “Artist Details Page”
  - d. List of all songs in the album

- e. Each song should display:
    - i. Song title (hyperlinked with previewUrl)
    - ii. Song duration
    - iii. Price
    - iv. Favorite button – (tapping on this will add/remove the song from the favorites)
  - f. Tap/Click on the song title should launch the previewUrl and user should be able to listen to the song
8. User should be able to navigate back and forth between the pages seamlessly

### **iOS App requirements:**

- Must use Xcode 10+ and Swift 4 or 5

### **Angular App requirements:**

- Must use NgRx and Angular 8 or 9

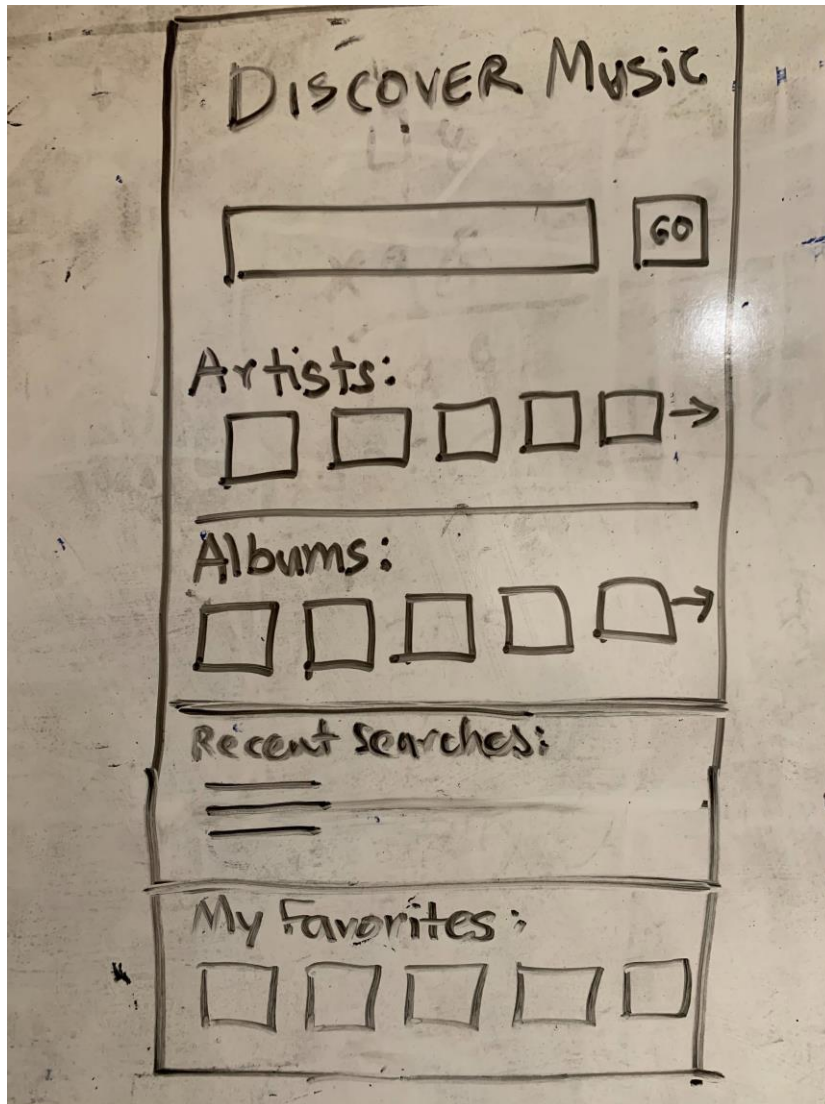
## **Expected deliverables:**

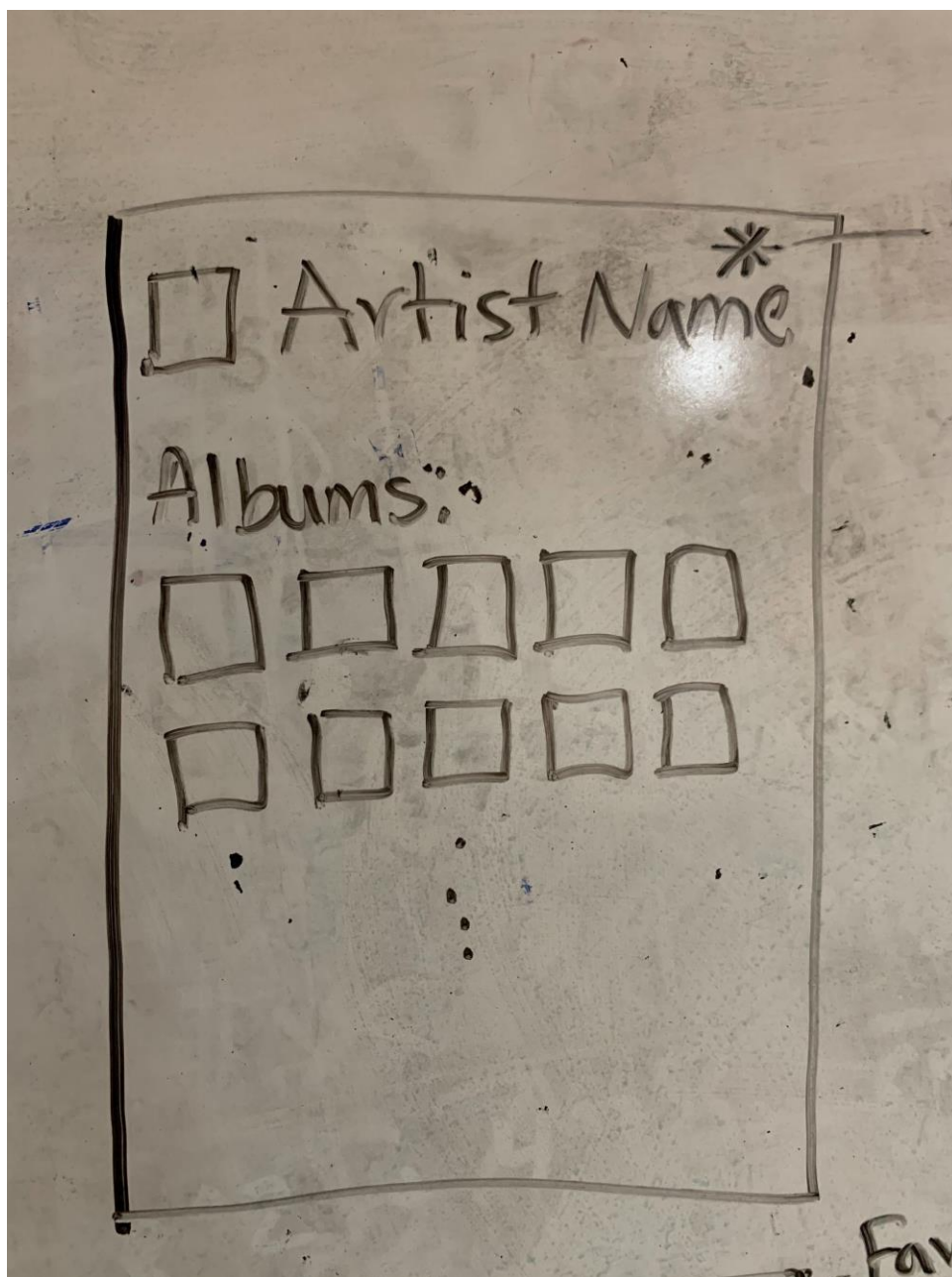
1. App code along with any external libraries and databases used
2. Installation and deployment instructions
3. Unit tests
4. Relevant documentation

## **Help:**

If you have any questions or are blocked somehow, please reach out to your recruiter with specific questions. The recruiter will get in touch with the team to identify the next steps.

## Sample UX Wireframes:







Album Name\*

Songs:

Song 1

Song 2

Song 3

Song 4

Song 5