

## How to Use this Template

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## Submission Instructions

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# SongSearch

## Description

The app lets users search and download songs. Search based on song name or artist name.  
The app uses iTunes to search songs and pleer to download songs.

## Intended User

Music lovers.

## Features

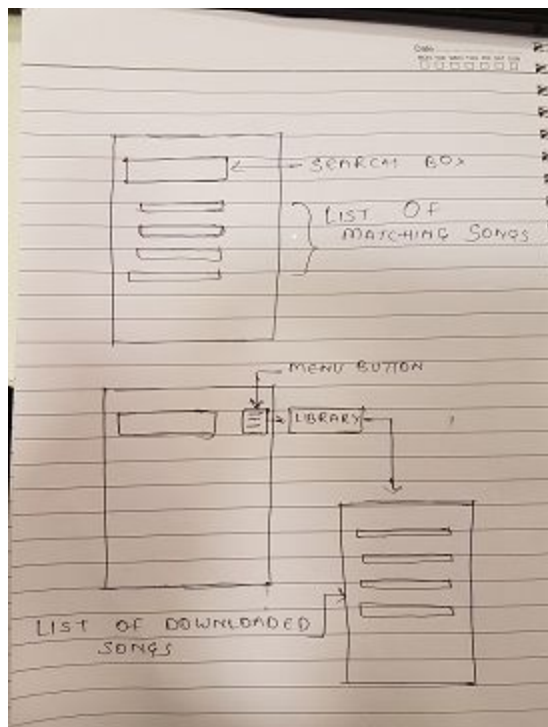
List the main features of your app. For example:

- Searches and downloads songs
- Shows library of downloaded songs
- Plays songs using installed music player.

## User Interface Mocks

These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

### Screen 1



Screen one (Main Activity) has a search box and a search button to search songs.

Search will populate a list of matching songs under it in a ListView.

A ad is shown on button click before showing the list of songs.

Clicking on list item will download the song.  
Action bar has an option to view the library of downloaded songs.  
This will result in the start of new activity listing the downloaded songs.  
User can click on any song and play it.

## Key Considerations

### How will your app handle data persistence?

A Content provider to store the downloaded songs metadata into sqlite.  
Storing songs on internal/external storage.

### Describe any corner cases in the UX.

Pressing the back button returns to the Main Activity of the song search.

### Describe any libraries you'll be using and share your reasoning for including them.

OKHttp

### Describe how you will implement Google Play Services.

AdMob

Google Analytics

## Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

### Task 1: Project Setup

- Build the app using gradle like any other android app. No dependent libraries.
- Compile time dependency on OKHttp

## Task 2: Implement UI for Each Activity and Fragment

List the subtasks. For example:

- Build UI for MainActivity
- Build UI for Library of downloaded songs Activity

## Task 3: Search Songs

- Make URL connection to iTunes and search the song
- Parse JSON and list song titles in a list view.

## Task 4: Download Songs

- Download songs to internal/external media
- Create content provider for downloaded songs

## Task 5: Create App widget

## Task 6: Generating build variants

Add as many tasks as you need to complete your app.

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