

How to Use this Template

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2. Rename this file: “**Capstone_Stage1**”
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Submission Instructions

1. After you’ve completed all the sections, download this document as a PDF [File → Download as PDF]
2. Create a new GitHub repo for the capstone. Name it “**Capstone Project**”
3. Add this document to your repo. Make sure it’s named “**Capstone_Stage1.pdf**”

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ID3 Tag

Description

Have songs which don’t have their correct ID3 tags or album image ?

Well now you can fix that right from your Android Device ! Just click on any song which you want to fix and we’ll try to find the Artist, Title and album cover of it and embed the right information in the song !

Intended User

Anyone and everyone who has songs without correct ID3 tags. Usually songs gotten through ripping CDs or sharing.

Features

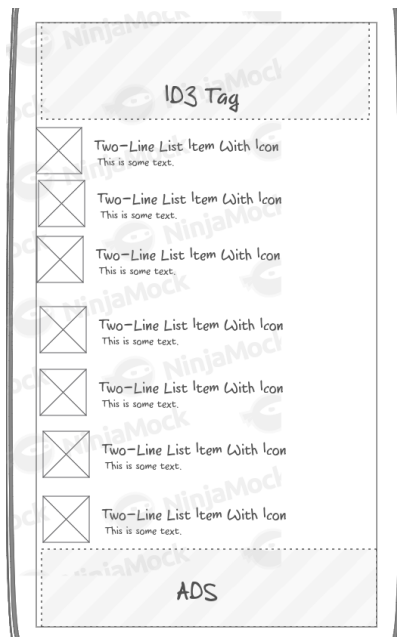
List the main features of your app. For example:

- One Click find
- Write the correct ID3
- Add album art

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



Main page with songs list.

Screen 2



Details activity and option to search for information based on name.

Add as many screens as you need to portray your app's UI flow.

Key Considerations

How will your app handle data persistence?

Will connect to the mediastore content provider of the device.

Describe any corner cases in the UX.

Tablet UI may look a little sparse due to not much information.

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

Picasso to get images and store them.

Okhttp for searching online.

Jaudiotagger android to write the ID3 tags in the songs.

Describe how you will implement Google Play Services.

Firestore-ads for displaying ads.

Firestore-analytics to gather 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

Set up content provider to get information from mediastore and then only keep files with missing information in it.

You may want to list the subtasks. For example:

- Configure contracts
- Get data from mediastore and then decide which files have missing information

Task 2: Implement UI for Each Activity and Fragment

List the subtasks. For example:

- Build UI for MainActivity with song list
- Build UI for Details pane

Task 3: Your Next Task

Implement finding of information for each song and then writing the information using jaudiotagger to the files.

Describe the next task. List the subtasks. For example:

- Finding information of song online from Shazam using AsyncTask/IntentService.
- Writing correct information inside

Task 4: Your Next Task

Describe the next task. List the subtasks. For example:

- Implement ads
- Implement analytics

Task 5: Your Next Task

- Implement widget to display how many songs still don't have media information

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

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