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Discover Music App

Description

Did you find yourself always listening the same music? No more!

This application let the user discover music based on:
- 4 principals moods (Energic/Dark/Positive/Calm)
- 16 genders (Rock/Pop/Folk/Electro/R&B/HipHop/Vocal Pop/Soundtrack/Classical/Latin/World/ Reggae/Blues/Jazz/Country/Metal)
- Year
- Popularity
- Location

Create playlist based on songs/artists, save their favourites songs, check lyrics, share on social networks, etc.

Enjoy it in your smartphone or tablet.

Intended User

This application is oriented for everybody who enjoy the music and want to discover more.
The user can search based on a range of years (since 1950 to actual music hits).

Features

- Pull data from publics APIs
- Data persistence using a data base and shared preferences
- Track user behaviour using Google Analytics
- Customise preferences using device´s location
- Support for accessibility
- Custom Widget to display saved songs
- Share songs' information on social networks
- Oriented to smartphones and tablets

User Interface Mocks

Screen 1

Main screen. Let the user select genre, year and mood.
In this screen we have access to favourites, about screen, and settings.

Screen 2

Once the user select the mood, a new screen will be displayed, showing a playlist with tracks that match will all the criteria (year, gender, mood).
The user will be able to launch an external application in order to listen the song, or display another screen with more details.

Screen 3

In this screen the user can share on social networks the general details of the track. Add to favourites and display name, artist, year, album's cover (if available) and lyrics.
Also will have the possibility of search for a new playlist based on track or artist.

Screen 4

This screen will display all user's favourites tracks. With the option to show details, or launch an external application in order to listen the song.

Screen 5

Settings screen let the user define the min and max range of popularity. And region.

Screen 6

About screen let the user know version, and general information about this app.

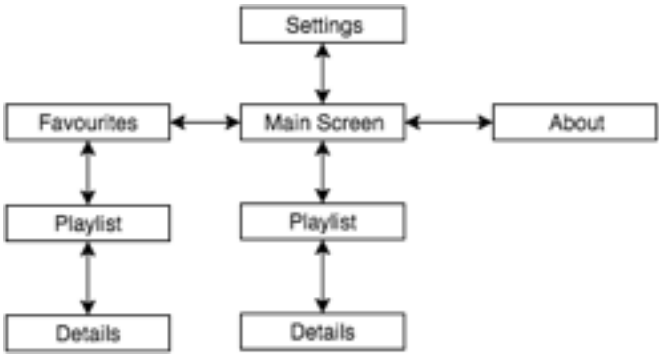
Key Considerations

How will your app handle data persistence?

For this application will be necessary store specific information like favourites (using an internal data base and content providers) and user's preferences (using shared preferences).

Describe any corner cases in the UX.

The following diagram describe the user navigation through the app



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

Picasso to display available images.
Retrofit to consume apis
Musicovery to discover new music.
Chartlyrics to get lyrics

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

Create a new android project using android studio. Api bigger than 15.
In gradle file add google services, retrofit and picasso dependencies.

Task 2: Implement UI for Each Activity and Fragment

Build main activity
Build fragment for main screen
Build fragment for playlist
Build fragment for details
Build activity for favourites
Build activity for settings
Build activity for about

Task 3: consuming APIs

Create request for musicovery and charlyrics apis
Create models for musicovery and charlytics responses
Consume musicovery and chartlytics apis
Display results using previous UI elements created

Task 4: handling Data

Create database, content provider and loaders in order to handle user's favourites
Create shared preferences in order to save user´s preferences.

Implement CRUD operations in database

Task 5: internal/external navigation

Create intents to change between internal activities, or launch external application in order to listen the track
Create intent in order to share track's data on social networks

Task 6: widget

Create widget UI
Consume internal data base in order to display user´s favorites tracks

Task 7: google services

Track user behaviour using google analytics
Get user location using google location api

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**"