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Let's play

Description

"Guitar Tab and Chords" provides user Tab and chords of some song, So that user can learn how to play Guitar. Also it shows the nearest guitar institute and details of the institute.

Intended User

Guitar Players initially. But can be scaled to the all kind of instruments player and learners.

Features

List the main features of your app. For example:

- Gives Tab and chords (List of songs and Details like Popular movies)

- Use Web crawler to crawl the tab and chords from different websites

User Interface Mocks

Screens of the application is attached below. Basically app has 3 screens

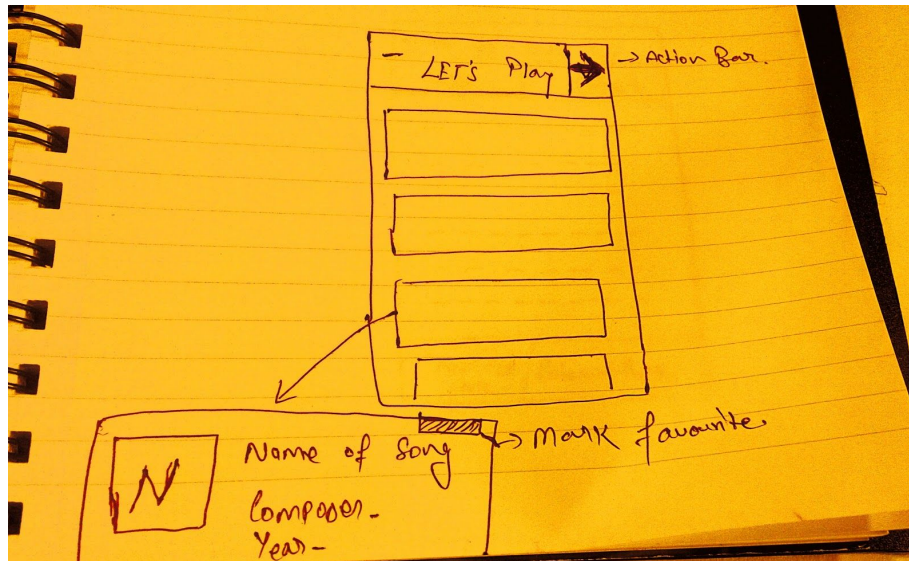
- 1) Splash Screen
- 2) List of the song with details such as name, Fav status, artist name and release year.
- 3) Details screen: it will be showing the tabs and chords. Also this will provide relevant link so that user can relate better.
- 4) It shows the nearest institute and details as a list and can show the direction
- 5) it has a widget which shows the information of the nearest guitar institute. Also it can show the direction to the institute via google map app or in the app itself.

Screen 1



This will be the first screen when app will be launched.

Screen 2



This screen will appear after splash showing the list the songs or music. It will also carry details such as composer and year of release. User can mark favorite and short fav music.

Screen 3

A hand-drawn sketch of a screen layout on orange lined paper. The sketch is enclosed in a rectangular border and contains the following elements from top to bottom:

- The text "Name of song." followed by a horizontal line for input.
- The text "Tabs" followed by four horizontal dashed lines for input.
- The text "Chords" followed by two horizontal dashed lines for input.
- A horizontal line separating the input fields from the bottom section.
- The text "Youtube/ link of song." followed by a horizontal line for input.

Below the sketch, the letters "V.I." are handwritten.

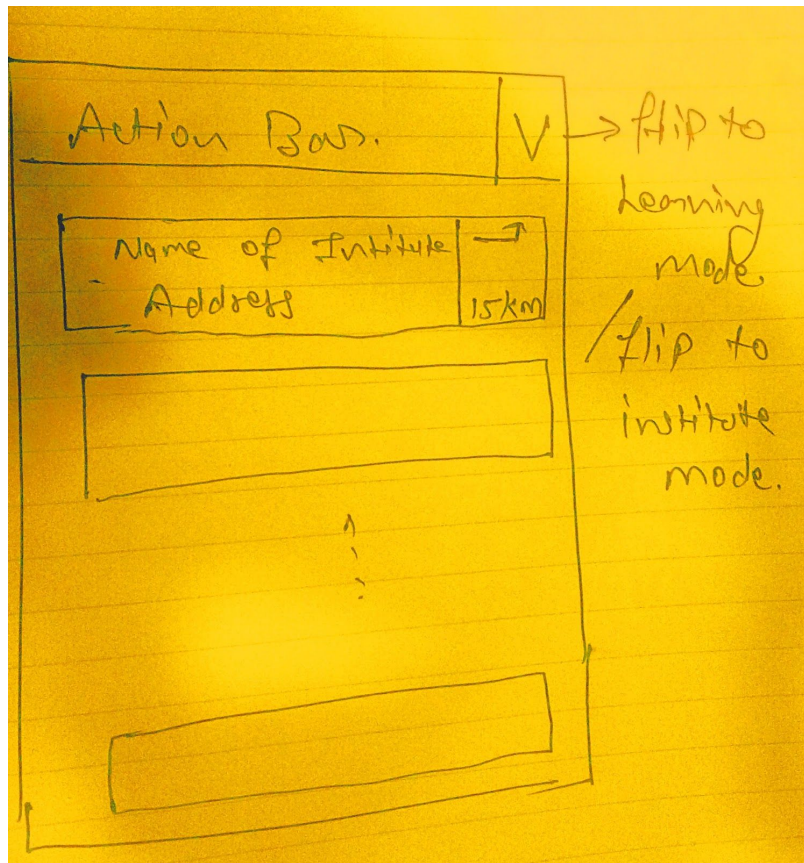
This screen is the details screen where User will be seeing the details of the tabs and chords.

OR

Name of Song	
Tab	Chords
Youtube Link / Relevant link	

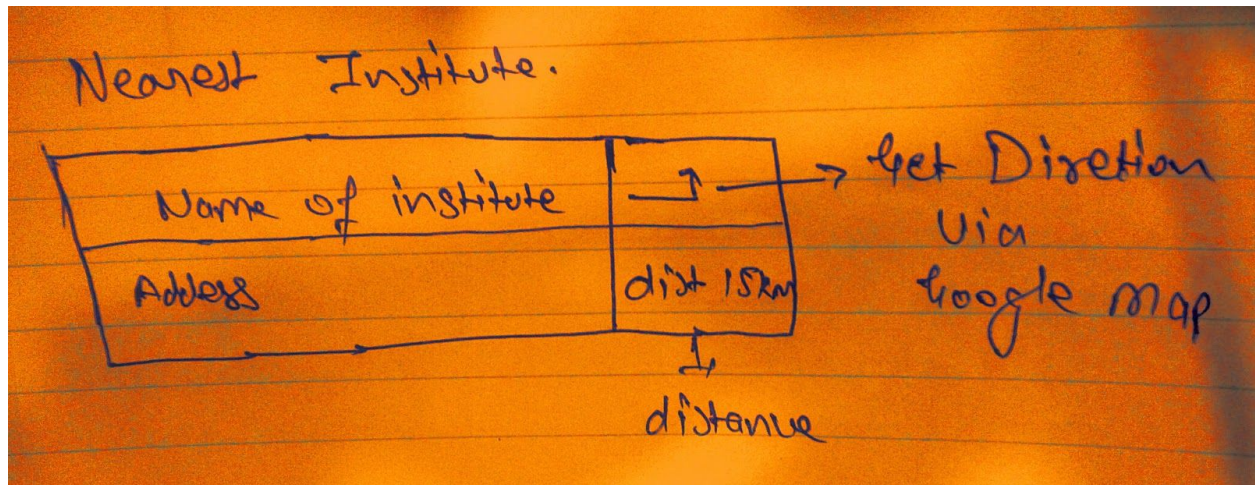
V2

This is the second variation of the details screen.

Screen 4

This screen will show the list of the guitar institute in recyclerview and when user will click on the item it will take user to google map and will show the details.

Screen 5



App is having a widget showing nearest guitar institute to the user. Widget shows Name of institute, address, distance from the location and It can guide direction through the Map app.

Key Considerations

How will your app handle data persistence?

App will work online and offline. There will be a sync Adapter to sync the data in background with app database. There will be a local database which will be carrying the data such as id, name, fav_status, relevant link and tabs and chords.

I have to make it offline because country such as India Most of the people are offline.

Describe any corner cases in the UX.

It will be playing youtube video in the app or open any other link in the app on the detail screen.

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

App will have a backend database which will be providing details required by the app. There would be another script which would be running on the server to crawl data from different server. Script would be written in python and will be using BeautifulSoup4 to scrape different site. And insert data into mysql database.

Following are some other library which will be used

- 1) Retrofit
- 2) ButterKnife
- 3) Glide

App will also be using AsyncTaskLoader to load data.

Describe how you will implement Google Play Services.

App will be using the Google Map for showing institute. Also app will use the firebase to show the important notification.

Next Steps: Required Tasks

Overview of requirement

Application has two main part one is Android app and other is a powerful backend to serve the request.

Application can be divided into following sub module

- A) Android App
 - UI/UX design
 - Local content provider for the android app
 - Rendering tab and chords details.
 - Handling external links
- B) Server App
 - Database structure
 - Web service to serve app
 - Web service to upload data to server
 - Script to crawl different site and use the web service to upload data to server.

Task 1: Project Setup

Project setup on android studio. App will have four activity.

- 1) SplashActivity
- 2) MainActivity
- 3) DetailsActivity
- 4) WebActivity

Task 2: Implement UI for Each Activity and Fragment

Task Two will design the layout and the implementation of the activity.

- SplashActivity
- MainActivity
 - TNCFragment
 - Endless RecyclerView with adapter
 - Use of content Provider to get data
 - InstituteInfoFragment
 - Endless RecyclerView with adapter
 - OnItemClickListener shows the institute details on the map.
- DetailsActivity
 - Use tabView to show the tabs and chords
 - There will be two fragment for the tabs and chords
 - There will be a common footer to show the relevant link
- WebActivity
 - It will be showing the Relevant link

Task 3: Creating local database and SyncAdapter

Task Three will be to create the content provider and implementation of syncAdapter with mock data.

Task 4: Setting the server

In this step we will be setting the server to serve the request.

- Designing database architecture.
- Creating web services
- Creating Web crawler.
- Creating web server so that we can fill data to webserver.

Task 5: Connect to the server

In this stage we'll remove the mock data and replace it with actual server data.

- Connect app with server.

- Verify the syncAdapeter.

Task 6: Test the server

This will be the final stage When we'll test the app if it is working properly

- Test the app
- Upload app to playstore