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Shabdkosh

Description

Shabdkosh is a easily search definitions dictionary. You can access the favourite word anytime and anywhere - you do not need an internet connection.

This app includes following features::

• Word of the Day – expand your vocabulary and challenge yourself daily
□• Audio pronunciation – increase confidence in English and never mispronounce another word

▯• Favorite words and search history – never forget the words you learn and save words for future reference
▯• Local lookups - see which words are being searched near you or by location
▯• Offline mode - look up saved words without an internet connection

I will use WordAPI :- https://www.wordsapi.com/

Intended User

Any person who like to know the definition of the word.

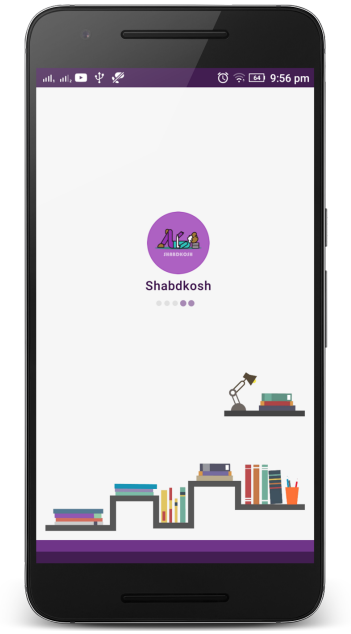
Features

List the main features of app.

- Able to search new english word
- Favourite word to remember it for long time
- Get info of a word
- Daily get a random word

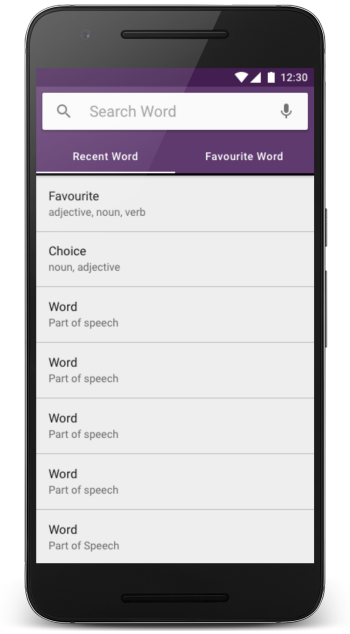
User Interface Mocks

Screen 1



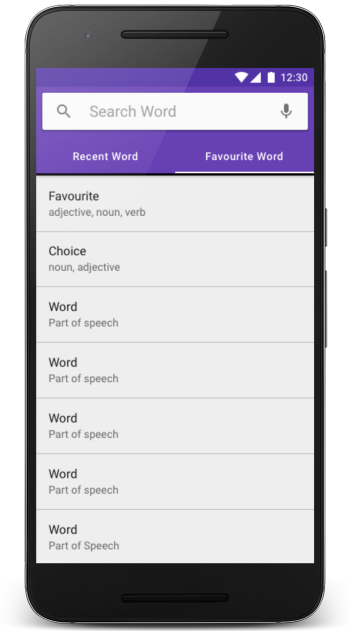
Splash Screen for app

Screen 2



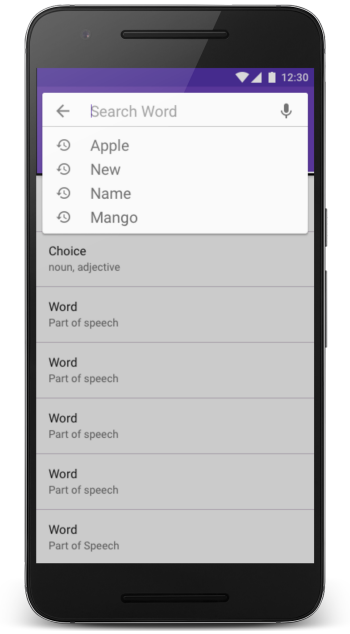
Recent Word Screen

Screen 3



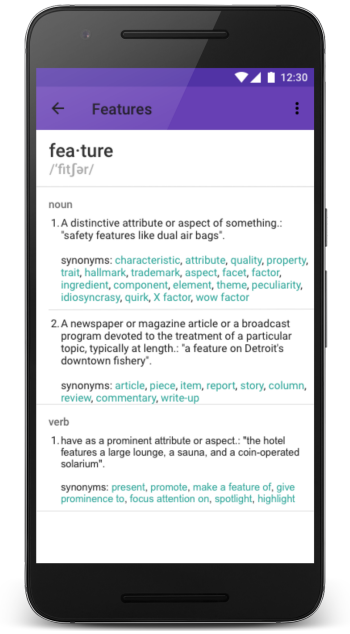
Favourite Word Screen

Screen 4



Search Word Screen

Screen 5



Detail View Screen for the search word or clicked word.

Key Considerations

How will your app handle data persistence?

Content Provider will be use for save favorite word and it will also use for saving the recent word history.

Describe any corner cases in the UX.

User can see synonyms details by clicking on it. No need to search it again.

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

1. Design Support : For various material things such as CardView and Recyclerview.
2. Butterknife: Very helpful. Using this we can omit the use of findViewById, OnItemClickListner etc and it works on annotations.
3. Stetho: To debug Data Base.
4. Retrofit2 : For Rest API interaction
5. RxJAVA : For composing asynchronous and event-based programs using observable sequences
6. Gson : For serialize and deserialize Java objects to (and from) JSON.

Describe how you will implement Google Play Services.

As almost all the things are on firebase now. So I use firebase core for analytics and firebase ads for ads. I am showing banner ads.

Next Steps: Required Tasks

Task 1: Project Setup

Updated the Build tools and downloaded the latest available api on Android Studio. Create a new project, define the range of APIs it support and main screen Activity and layout.

You may want to list the subtasks. For example:

- Configure libraries - Such as Design support, firebase core, butterknife etc.

Task 2: Setup basic MVP Structure

List the subtasks. For example:

- Add API Manager layer
- Add Data Manager Layer
- Add DataBase Manager Layer
- Add Base UI Layer

Task 3: Implement UI for Each Fragment and Activity

List the subtasks. For example:

- **Build UI for MainActivity** : In this I have to create a search view to search the word and show it to the recyclerview. I will add it to action bar and it will be always in top of the activity. I will use search view to quickly get the layout. And this activity will have two fragment in which i will show recent search words(only last 10) and favourite words. For the both fragment i will use Recyclerview to get the layout.
- **Build UI for Detail Activity**: This screen will have detail of the word which will you select by searching or by recent search word or favourite words. This will show detail of word from content provider.

Task 4: Implementing search logic

- Check for empty string search
- Implement search with the help of Rest API
- Implement search result UI
- Onclick to search Result list move to detail Activity

Task 5: Implementing Detail activity logic

- Get word details with the help of Rest API
- Show detail in UI
- Add click for synonyms and antonyms

Task 6: Implementing Sqlite, Content Provider, Loaders and Widget with the help of DBflow

- Adding the sqlite database to store recent search words.
- Add the content provider for sharing data with the widget

- Implementing Loaders to update UI

Task 7: Ads Testing & analytics Integration

- Created project on firebase get the config json file.
- Linked with admob.
- Build test ads by inserting the Device ID.
- Integrate Analytics.
- Test the app