

[Description](#)

[Intended User](#)

[Features](#)

[User Interface Mocks](#)

[Screen 1](#)

[Screen 2](#)

[Key Considerations](#)

[How will your app handle data persistence?](#)

[Describe any corner cases in the UX.](#)

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

[Describe how you will implement Google Play Services.](#)

[Next Steps: Required Tasks](#)

[Task 1: Project Setup](#)

[Task 2: Implement UI for Each Activity and Fragment](#)

[Task 3: Your Next Task](#)

[Task 4: Your Next Task](#)

[Task 5: Your Next Task](#)

GitHub Username: [DroidPulkit](#)

Decode It

Description

Decode It is an online language translator app, which fetches data from the Yandex Translate API and has different language support for users.

Intended User

Decode It is intended for everyone who wants to use a user friendly translator app and especially for those people who need to translate words in different languages.

Features

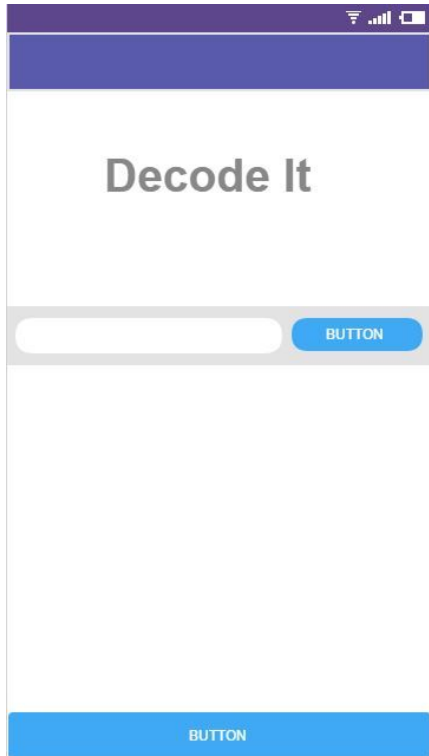
The main features of app are:

- Display translated word
- Can translate into multiple languages
- Store the search history in database with help of content provider

User Interface Mocks

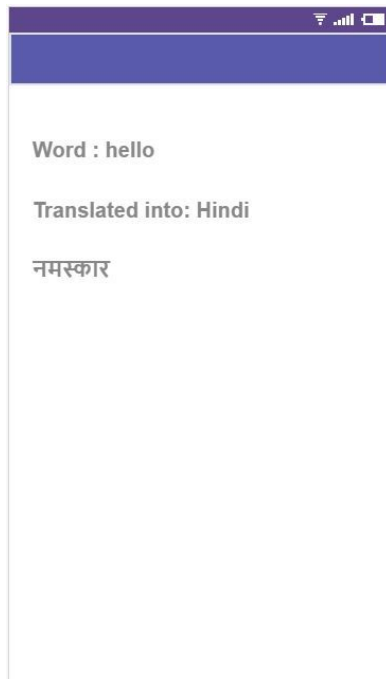
Some Mockups of Decode It app are:

Screen 1



MainActivity for Decode It. Helps in searching the translated word in multiple languages

Screen 2



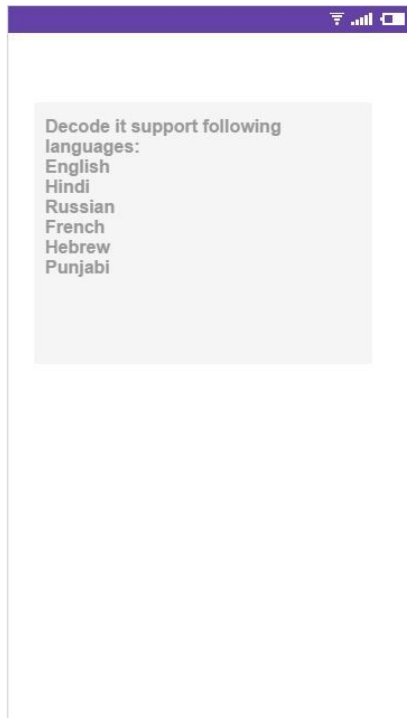
This is the Translated Activity showing the translated word and it's translation

Screen 3



This is the History Activity showing the history of translated word.

Screen 4



This is the **Decode It Widget** showing the list of languages supported by the Decode It app.

Key Considerations

How will your app handle data persistence?

Storing the search results in content provider and display the list of searched words in history activity in form of list view.

Describe any corner cases in the UX.

N/A

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

- FontometricsLibrary for different fonts

- Some more libraries to make UI Better (Not decided yet)

Describe how you will implement Google Play Services.

- Google AdMob
- Google+ Sign In

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

- Configure the Yandex Translate API, receive the API key and implement search bar for sending queries to the API.
- Implementing the Fontometrics Library for Fonts.

Task 2: Implement UI for Each Activity and Fragment

- Build UI for MainActivity
- Build UI for History Activity which displays a list view of searched words
- Build UI for Translate Activity which displays the translation of searched word.

Task 3: JSON Parsing for the API

- JSON Parsing for the Yandex translate API
- Receive the translation for the searched word
- Uses **AsyncTask** to load data from the API

Task 4: Create SQLite database

- Implementation for SQLite database to save history with **content providers**

- **Loader** Implementation to display the content provider data in a form of listview.

Task 5: Shared Preferences for language support

- Modify the API link for different languages support using Shared Preferences.
- Able to receive the translation in different languages.

Task 6: Implementation for Widget

- Implementation for the Widget which displays the different language supported by Decode It in an interactive way on the home screen