

## How to Use this Template

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**GitHub Username:** Rratio

# UNIVERSAL TRANSLATOR(UT)

## Description

My app is related to translation. In every state and city have their own language....and many person face trouble to talk with each other. This app will help to solve every problem. Like text to text, text to speech, speech to text and speech to speech all types of translation done here. My App uses java as a primary language for developing my apps and the version of java should be latest :- java1.8.0\_121.

## Intended User

Everyone (Means Normal person to Expert person)

## Features

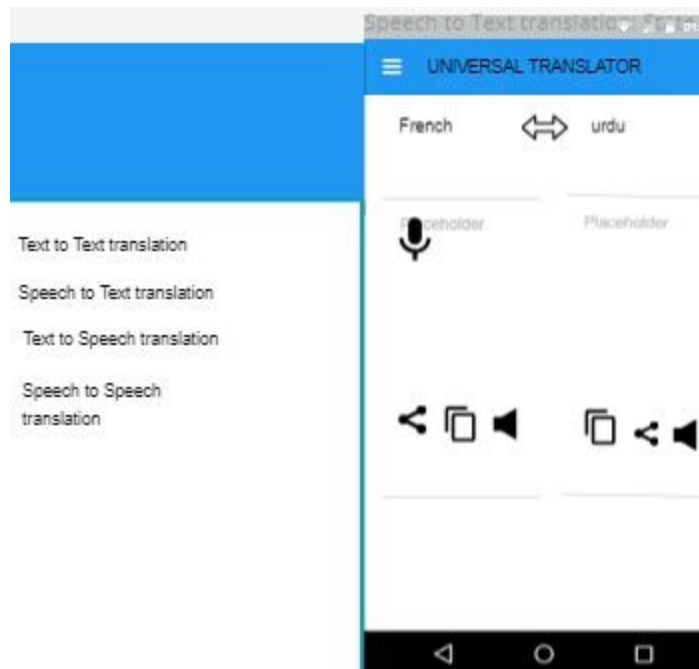
List the main features of your app. For example:

- Text to text translation
- Text to speech translation
- Speech to text translation
- Speech to speech translation
- Share your translatio
- Copy these
- Any language convert to any language
- Add snack bar to show popup when there is no internet connection.
- Read system language and set it to translator language.
- App Support RTL and to implement it i will add this :-

```
android:supportsRtl="true"
```

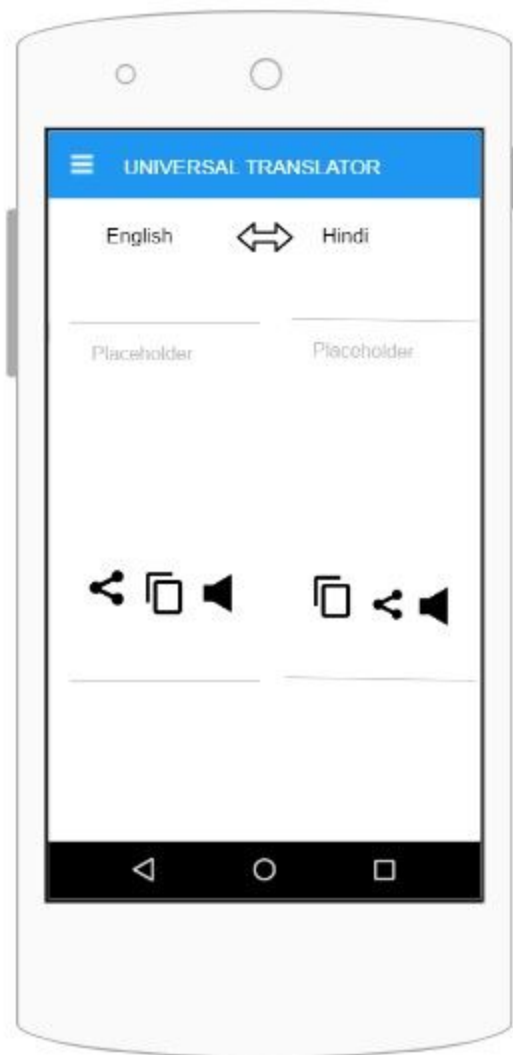
## User Interface Mocks

Main Screen where we have option to select translation :-



In this screen when we select navigation drawer, and select any option like here i select speech to text option then it show the screen like this.

Text to text translation screen :-



Here any language text can be converted into any language.

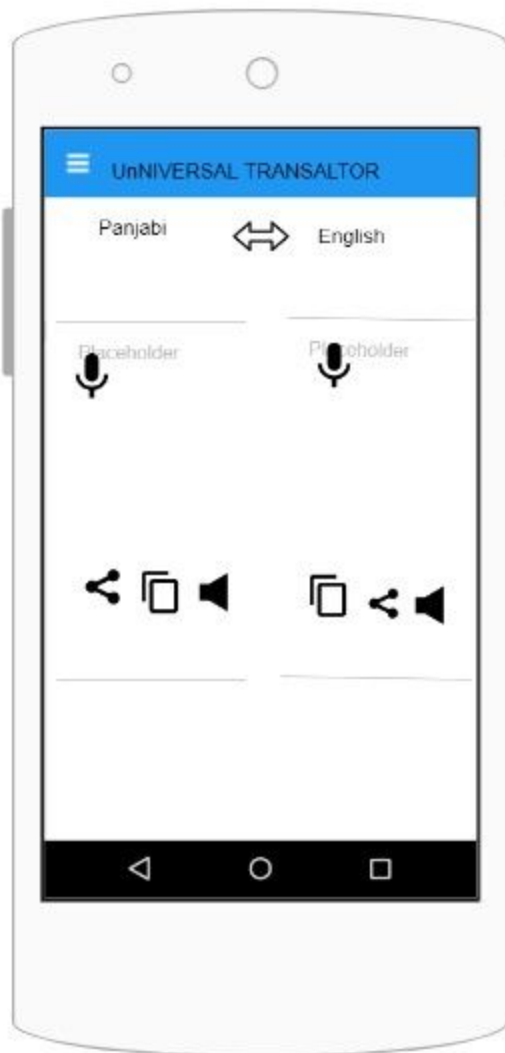
**Text to Speech translation screen :-**



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This screen is for text to speech translation. We can copy text, share text.

**Speech to speech translation screen :-**



This will be the best solution for translation, speech any language and it will give to convert any language.

Widget Screen :-



This is the widget screen. It is show mainly useful information like Which text transfer or which two language used to perform translation.

## Key Considerations

### How will your app handle data persistence?

My app handle translation through google cloud platform api, and to store data i use firebase. For maintaining database or any other backend work need then i will use firebase for it. It is better for capabilities.

### Describe any edge or corner cases in the UX.

If user hit back button then it redirect to home screen where he find option to go.

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

I use google cloud platform API library for translation.

Here is the Library that wi use in my project :-

//Firebase implementation

```
implementation 'com.google.firebase:firebase-core:16.0.4'
```

```
implementation 'com.jakewharton:butterknife:8.8.1'
```

```
annotationProcessor 'com.jakewharton:butterknife-compiler:8.8.1'
```

Also use butterknife to find or give reference any id. This is a new and stable in android studio.

I use the latest version of android studio 3.0.

And i use other Api which directly used in java files.

### Describe how you will implement Google Play Services or other external services.

Use google cloud service because it is very fast responsive and give result in quick.



## Next Steps: Required Tasks

### Task 1: Project Setup

Firstly need to setup Android studio and create a blank project in it. And here i need to add libraries which i need otherwise it shows errors.

Include all related API and libraries of google cloud that helps to translation.

Make different files for different work that's easy for understand.

### Task 2: Implement UI for Each Activity and Fragment

My main Activity like Home Screen where i give my for options of translation and these will help to easy understand. After select any option their related fragment will open and then related work like type text or send audio will perform. You can also share, copy and listen your text and audio.

All string which is used in app will store in string.xml file.

The app also uses AsyncTask for short durations.

### Task 3: Your Next Task

All the related error will be handle by google cloud service and platform. This is very responsive and safe for translating.

These all related task very important or sufficient to say anything about my app. I target to solve every person problem that's i select these apps.

And if reviewer give me any suggestion to improve this app then all suggestion also point and welcomed.

#### **Task 4: Widget Task**

This is my widget task. Here, In widget all the important details like which language translate to which and also the text will shown in widget side.

#### **Task 5: Accessibility Task**

In this all the accessibility which will handle by app is shown. here , like app will show snackbar when no internet connection. And check functionality of app in all cases.