

GLA UNIVERSITY



TOPIC : MINI PROJECT SYNOPSIS ON TRANSLATE PLUS

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This mini project i.e TRANSLATE PLUS work will be done by us.

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INTRODUCTION :

Translation means converting written information from one language into another. When Tap to Translate is on, you can copy text from any app on your Android device and translate it to another language. Tap to Translate can only translate text in an app, not images.

Example, SayHi. Translate your voice into 90 languages and dialects with SayHi. The app allows you to record your voice and then translates it into the language you've selected. You can play your translation in the voice of either a woman or a man, and adjust the speed to your liking.

About the project:

Translate Plus is an online android mobile app that translates any sentence or phrase or word into the targeted language, this app supports voice and text translation in many languages.

We can use it every day for business, travel, and education. It provides many features like text and voice translation, voice recognition, detailed history for stored translations, etc.

Primary Reason to Choose this Project :

I have chosen this project because I think today the world is growing faster than ever, peoples from all over the world are coming together but in this scenario we are facing the gap of communication due to multi-language union. I think this app will help in filling this gap.

The Main objective of the Project:

main objective of the project is to build an android app that help in translate languages either by text input or voice input.

Scope of the Project:

Translation apps are fairly important in daily life especially when you travel abroad. They help people communicate without a human translator or spending months learning a language. So we can say there is a huge scope, and there is much more to come in this field.

In recent days, trending technologies such as Artificial Intelligence, Machine Learning and so on are vibrant. That's probably making the Smartphone users look for smarter apps which makes their life simple.

Working Methodology Of the Project:

The proposed Android Text translation is based on a double objective: (i) Word Transmission and (ii) Script Transfer Mark. For a mobile translator, text libraries of different languages were built using MATLAB, which includes the most frequently used terms in conversations in daily life. The user is asked to enter the text in the android code and click on the language-named button to convert to the text production.

Details About the Hardware and the Software

System Requirements:-

Supported operating system:- Android

Software Required:- Operating System, Processor,Storage,RAM
and Internet.

Hardware Requirements:-

For Android Studio and IntelliJ:-

Android

64-bit Microsoft® Windows® 8/10.

x86_64 CPU architecture; 2nd generation Intel Core or newer, or AMD CPU with support for a Windows Hypervisor.

8 GB RAM or more.

8 GB of available disk space minimum (IDE + Android SDK + Android Emulator)

1280 x 800 minimum screen resolution.

IntelliJ

64 Bit Microsoft Windows 8 or later

2 GB RAM minimum, 8 GB RAM recommended

2.5 GB and another 1 GB for caches minimum, solid-state drive

with at least 5 GB of free space recommended

Add support for Java 14[14]

JRE 11 is bundled.[15]

1024×768 minimum screen resolution. 1920×1080 is a recommended screen resolution.

For Eclipse:-

Requirement	Minimum	Recommended
Java version	1.4.0	5.0 or greater
Memory	512 MB	1 GB or more
Free disk space	300 MB	1 GB or more
Processor speed	800 Mhz	1.5 Ghz or faster

Listing Out testing technology

Frontend and Backend :-

Frontend

for developing android app using JAVA language is front end .

Backend

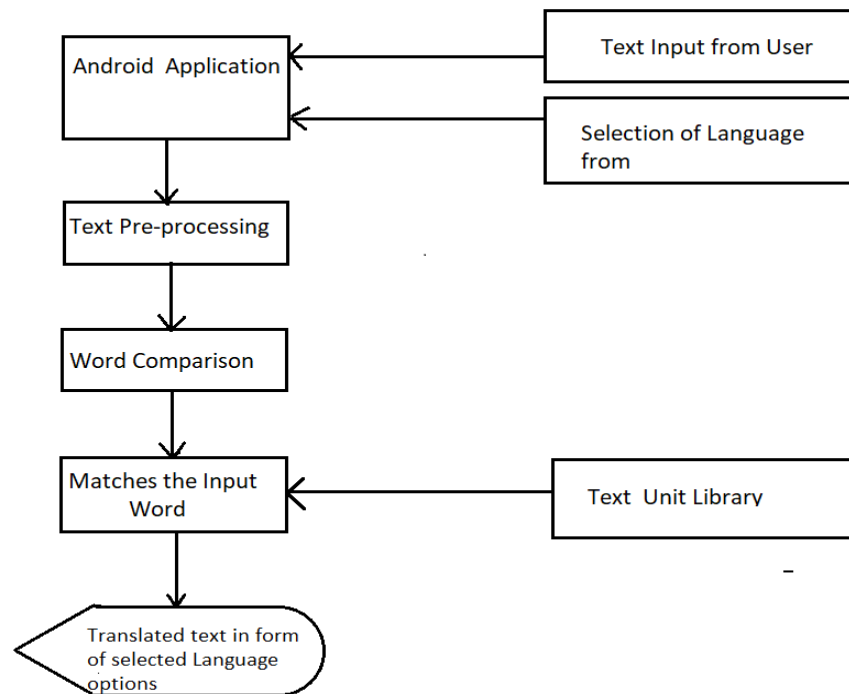
The backend of this app is Mysql database for storing the data and later retrieve the data in app.

Module Description:

It is the process of conveying a written source language text clearly, completely, accurately, and appropriately in a target language. Translation allows information to be transferred across languages, expanding accessibility of the information. The translation process involves translation, editing, and proofreading.

Data Flow diagram :

DFD:- A data flow diagram (DFD) illustrates how data is processed by a system in terms of inputs and outputs. As its name indicates its focus is on the flow of information, where data comes from, where it goes and how it gets stored.



Refrences:

- [researchgate.net](https://www.researchgate.net)
- developers.android.com