MANTHAN
राष्ट्रीय सुरक्षा सर्वोपरि

Solution By: Team Linguistic
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Idea Introduction

IDEA TITLE- BASELINE

Tech Stack
1. Python
2. Web Application
3. Virtual Assistant
3. Database

Resources Used
1. Google
2. GitHub
3. Kaggle

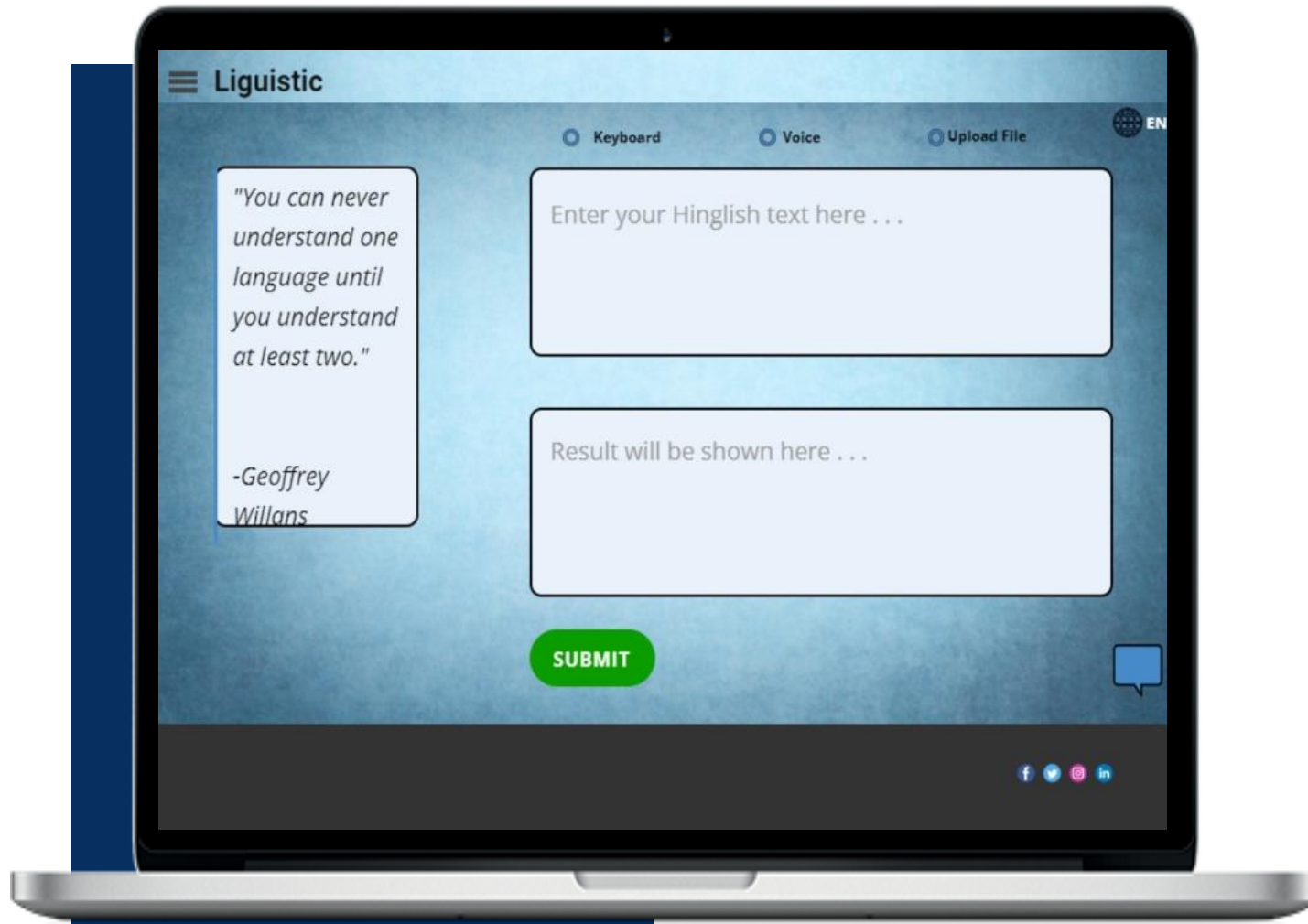Any Third Party API/Services used
1. No

IDEA-OUTCOME – HEADLINE-

Our application takes Hinglish text as input from the user and translates it into complete English language. It can also replace all the short notations present in the text with their long notations. We have also given a voice feature to our text box which will allow users to listen to the text.

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Your Approach Towards Idea

Liguistic

○ Keyboard   ○ Voice   ○ Upload File   🌐 EN

"You can never understand one language until you understand at least two."

-Geoffrey Willans

Enter your Hinglish text here . . .

Result will be shown here . . .

SUBMIT

Write Your Approach in Brief below

The module will translate the Hinglish text into complete Hindi except for short notations. It will further translate it into English. The module will then detect the short notation first and then replace it with the adjacent long notations with the help of the dataset. It will also provide users to listen to the result.

With the help of,
1. NLP
2. Own dataset
3. IBM Services

1. Voice I/O Command
2. File as input type
3. Virtual Keyboard
4. Virtual Chat bot (in both English as well as Hindi language)

No requirement

Team Slide

Member 1
Ramanand Anand Mohare

Member 2
Pranoti Saudagar Pawar

Member 3
Zeba Akhtar Mohd Iqbal Bagban

Member 4
Suhana Mehtab Tamboli

Member 5
Aditi Suresh Iyer

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Development Pipeline

Proposed Development Plan in pointers
1. Detect the short notations from input text
2. Translate the rest of the text into Hindi Devanagari
3. Translate the Hindi Devanagari text to English
4. After that, replace the short notations along with their long notations using dataset
5. Display the result

Documents To be prepared for installation and evaluation

1. Project Report
2. Dataset
3. Case Study

GitHub Link: https://github.com/Ramanand14/Linguistic.git

No, we have not used any third party API

Proposed UI and functional flow in pointers
1. Select the I/P type
2. Enter the text
3. Click on 'Submit' button
3. Result will be displayed
4. Use voice key to listen the output, if want

Step A   **Step B**   **Step C**   **Step D**   **Step E**

Vision of Innovation/Idea/Solution

Our main goal is to identify and replace all the short notations from Hinglish text and translate them into complete English language. The module will detect and separate out the short notation from a given Hinglish text. The remaining text will be translated into the Hindi language. The Hindi text can be further sent to our module to translate into the English language. The long notations for all short notations will be identified and replaced with the help of our dataset.

With the help of our application users can give input either using keyboard or voice or in text file format. We have also given the feature where users can listen to both inputs as well as output text. A virtual keyboard is also given for text input. We have also provided a virtual assistant to address the user's queries, the user can interact with the chatbot in English as well as the Hindi language.

It will take less than 5 sec to convert into the final text.

We have given different input types such as keyboard, voice, or in a file, also virtual keyboard as the input type is an early-stage innovation of our project. As voice type will be helpful in case if the user cannot write/type properly or if the user wants to upload the Hinglish text file, input type file is useful. The virtual assistant is also given to solve the user's queries.