

# Software Systems Development

Semester Project Report

Team Number : 6

## Virtual Assistant



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**Submitted to:**

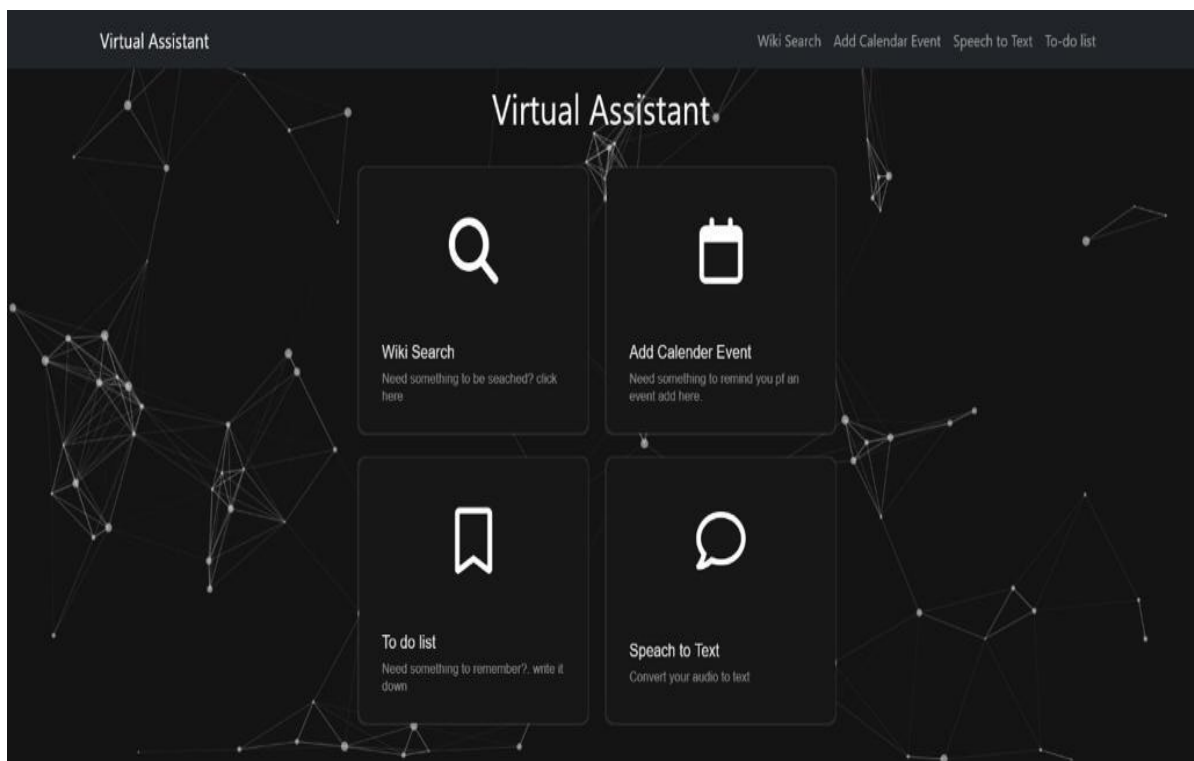
Prof.Charu Sharma

# 1. Introduction:

Virtual Assistant is a virtual helper(kind of like a remote employee) that offers the following four functionalities.

- Adding an event to the calendar.
- Converts speech to text.
- Wiki Search.
- To-do list.

This virtual assistant is completely built using MERN stack.



## **2.Explanation of each functionality:**

### **1. Adding an event to the calendar :**

Here by using this functionality user can add an event to the calendar.

Each event contains four parts.

1. Summary of an event.
2. Description of an event.
3. Location.
4. Start date and end date of event.

After entering all the details and by clicking the create event button the event is added to the calendar.

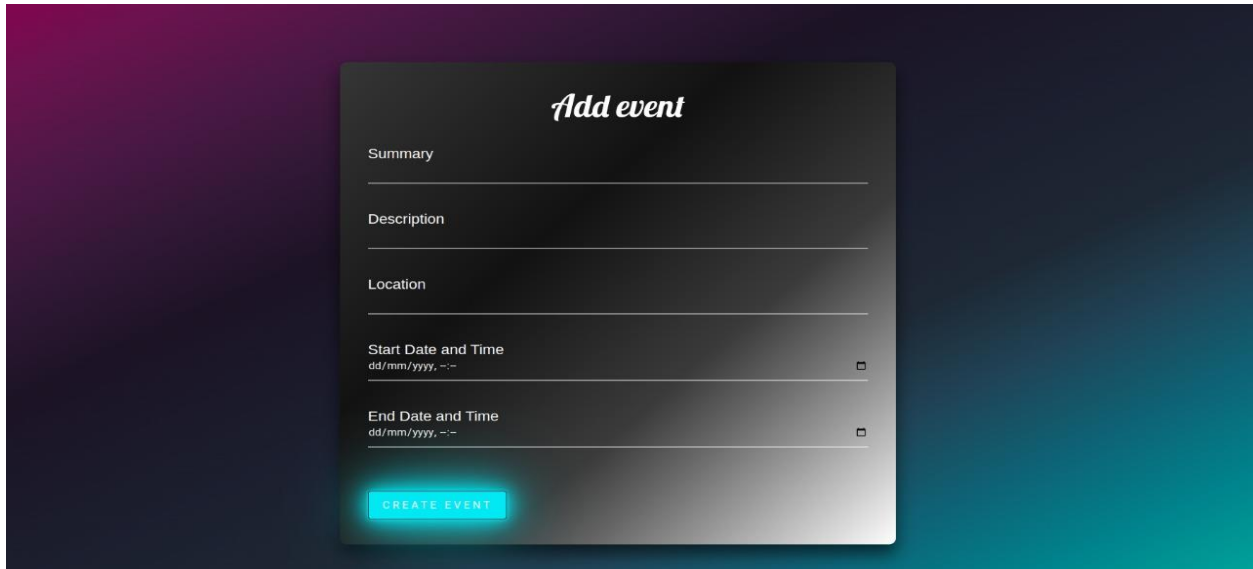
A reminder is sent to the user 21 minutes before the starting of the event.

### **Implementation:**

->User must sign in before creating an event.

->This is implemented using OAuth of google API and express as backend.

->If end date  $\geq$  start date response is added  
Else nothing is added.

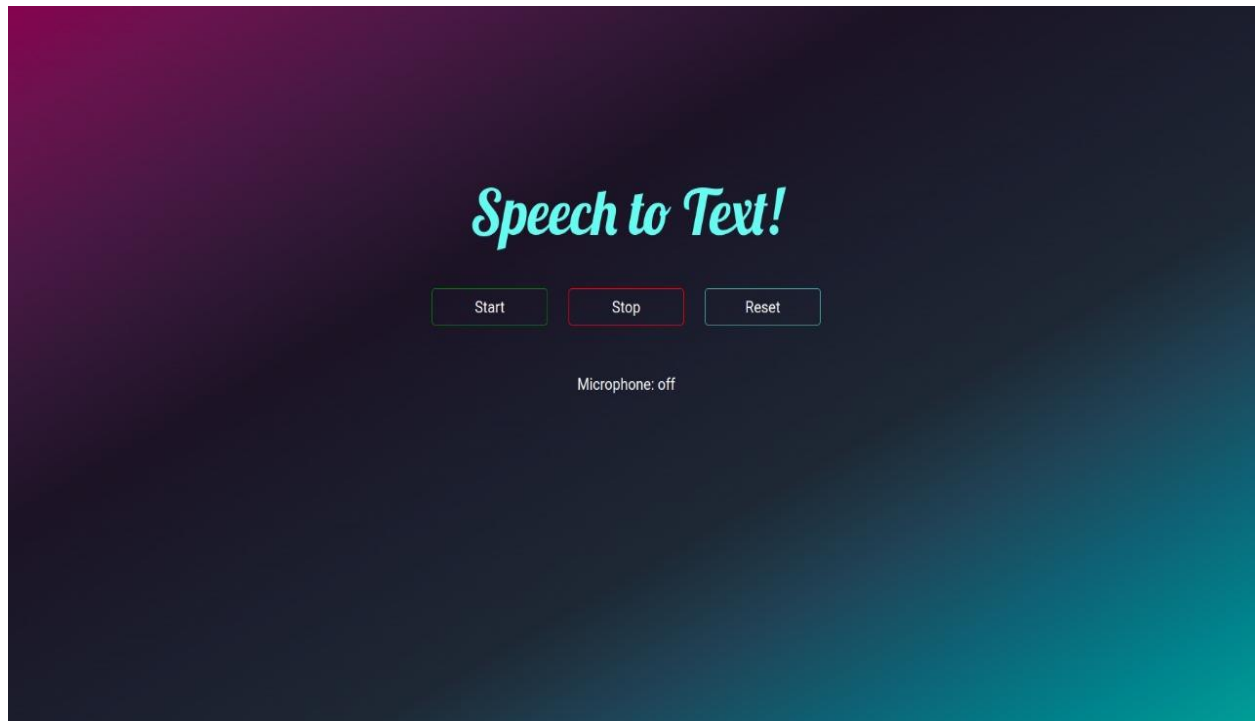


## 2. Converts Speech to text:-

- >In speech to text conversion, user is able to convert speech that is recorded using a microphone to text.
- >It contains three buttons namely start , stop and reset.
- >Start button is used to start the conversion
- >By clicking stop button text conversion is stopped.
- >Reset clears the text that is converted.

### Implementation:

- >Using react speech recognition package to track whether the microphone is on/off.
- >Then updating conditionally rendered <p> element with the transcript.

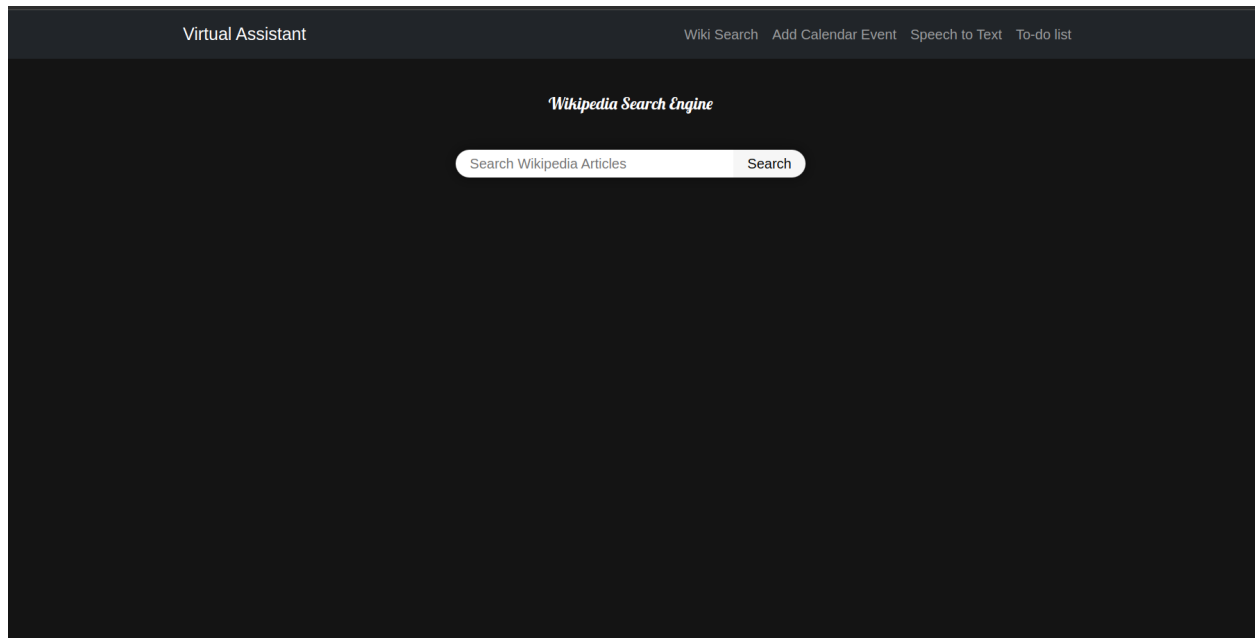


### **3.Wiki Search:-**

Wiki search is a functionality where user is able to search about anything that is limited to Wikipedia and ten results are shown.

#### Implementation:

Used Wikipedia search API to provide above functionality.



#### **4.To-do list.**

->To-do list helps user to add events to a list that is to be performed on that particular day.

->User can add/delete day specific events.

Implementation:-

->To do list is implemented using regular react js.

->Events can be added,deleted,updated which is implemented using the respective functions/

