

Voice Based Transport Enquiry System

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Abstract- “Voice Input Transport Enquiry System” is a system which works based on the voice input given by the user who intends to know about transportation facilities available from a certain terminal. There is no communication which is understood more properly than voice. This system too uses voice commands to provide input and gives the required information to the user in the form of audio output. Users can get all types of transportation details between any two places. This system will have an additional feature of getting the traffic status of a particular place. The user can get a live video feed of the traffic of that place. As the whole, this system can be operated by speech or voice so, making it easier to use for the blind people.

Keywords- Speech Recognition, Enquiry System, Speech to Text, Voice based

I. INTRODUCTION

Speech to Text conversion takes input from microphone in the form of speech & then it is converted into text form which is displayed on desktop. Unfortunately, for a decade the core speech generation technology i.e., generation of speech from a phonemic sequence has largely been automated due to unit selection techniques.

“Voice Input Transport Enquiry System” is a system that gives information about various types of transport facilities available between any two places. Till now the systems that provide us information about various transports are the chart available at the bus and railway terminals, and few applications and time table books of a particular type of transport.

Voice Input Transport Enquiry System, however, gives the details of every possible transport system, i.e. buses, trains, cabs, metros, etc. This system will also work on audio input and audio and text outputs. The system will have a microphone through which user can give inputs and speakers through which the results will be given.

II. LITERATURE REVIEW:

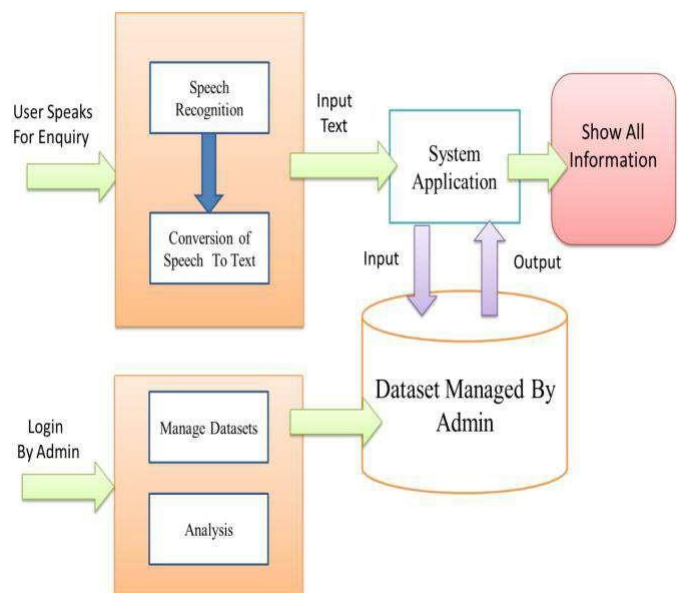
In the literature review we are also study the following application they are having some drawbacks they are as follows

DELHI Bus Guide In this application they are providing only possible buses with their bus no. In that application we cannot have any information about the paths. Also it cannot display the arrival timing of buses.

G.S.R.T.C application In that application they will simply providing a timetable of the bus stand. This application does not provide any kind of information about possible Path from source to destination.

Bus Enquiry This application is only for enquiry purpose. Means it shows only availability of buses. It not clearly give the idea to user about time of buses. So it not that much beneficial. This all drawbacks we are trying to overcome in ABES application.

III. SYSTEM ARCHITECTURE



IV. FEATURES OF PROPOSED APPLICATION

The proposed app has features like audio input and output, information about transport, live traffic status and suggestions. **Voice Based Automated Transport Enquiry System** is enquiry System which operates **based** on the **voice** input given by the user. There is no communication which is understood more appropriately than **voice**. This **system** too uses the **voice** commands and gives the required information in the form of **voice**.

V. AUDIO INPUTS AND OUTPUTS

User will need to select three options: - source, destination and type of service whether bus, train or cab. The input will be taken as voice input which is termed as convenient way of usage. Voice input doesn't require much attention while entering the input. Upon entering the required fields, the output will be shown on a tabular format and interestingly all the outputs will be read out to the user in human-voice. As a result, this service is helpful to blind users as well.

VI. ADVANTAGES

- It works in more interactive way in the form of speech.
- It needs less or no human intervention
- It is automated.
- It needs very less maintenance.

VII. MODEL DESCRIPTION

- Admin
- Account
- Client
- About

Admin:

Admin is an authorized person, admin can login to system with his/her authenticate user id and password . Admin have rights to inserting the information about buses, there timing and roots.

Account:

Voice Based Transport Enquiry System is a website in which user provide the detail needed by them through the voice and the **system** provide the information through text. The **system** shall provide option to add new information like route information and the timings at which the **transport** facility is available.

VIII. USER MODULE

User module is the second part of our propose system. In user module user can performs some action which is describe as follows: User can search buses using voice command.→ After searching user get information of available buses, there timing and their roots.→ This system helps user to retrieve data more easy.→ The Componets which makes the current system . It has Four Componets which are listed below.

- Administration
- Commands
- Search
- Speech

ADMINISTRATION: Through this component the maintenance personnel can update the information and also the commands to the system

COMMANDS: This is one of the major components of the current system which recognizes the commands given by the user. This component is responsible for recognizing the commands and interpreting the command and sending appropriate request to the Search component.

SEARCH: Search components take the input as the request from the Command component and retrieve the appropriate result from the database. it gives back to the display component and the speech component.

SPEECH: This component is used to deliver the result in the form of the voice using Microsoft speech control. This takes input form the Search component.

IX. SQL SERVER

SQL Server is an application used to create computer databases for the Microsoft Windows family of server operating systems. It provides an environment used to generate databases that can be accessed from workstations, the web, or other media such as a personal digital assistant (PDA). SQL Server 2005 (formerly codenamed "Yukon") released in October 2005. It included native support for managing XML data, in addition to relational data. For this purpose, it defined an xml data type that could be used either as a data type in database columns or as literals in queries.

X. CONCLUSION

Voice Based Transport Enquiry System is a needy practical system that is useful in not only providing the bus details, it helps in travel planning and saves enormous timing of the user, which otherwise would have spent in waiting at the bus stations. Unlike with the SMS based systems, in which the user needs to send sms in predefined formats, this system is very simple to use and more accurate. Moreover there is no requirement of human resource like in the enquiry desks. New stations and busses can be added easily and the details are readily available to the users of the system.

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