



VOICE BASED TRANSPORT ENQUIRY SYSTEM

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Abstract: Now this is the age of speed. Everything happens in the speed of supersonic. The data can be transferred at the speed of light in the digital medium, can travel in the supersonic speed, hence there is a need of information inflow in the same speed. Here is one such need of information fast enough. We have experienced in waiting at a transport terminal for transport controllers to get the information about the transport facility. We encounter so many times there will be no person for providing this information which significantly wastes the time just to know whether there is any facility or not. Here is one solution for such a problem which lessens the human intervention in providing such information in the transport terminals.

I. INTRODUCTION

Voice Based Automated Transport Enquiry System is the 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. This system can be installed in any transport terminal like Bus stands, Railway terminals or airports.

II. EXISTING SYSTEM

Voice Based Automated Transport Enquiry System with GPS Enabled Tracking is developed for providing the information for the enquiry in transport terminals. This project is developed using .Net technology using c# Programming language. This uses sql server for storing the database i.e. information to be provided to the user. This user Microsoft Speech recognition to detect the voice from the user and gives appropriate output. As the name suggests it also gives the feature of live tracking of the bus. There are many applications available right now which give details about transport modes from a particular source to destination. But all these applications are either limited for a particular type of transport or gives limited information. Google maps application provides similar kinds of facilities. It takes input from the user, namely, the source and the destination and displays all the modes of transport available. It also shows the route plot on map. However, it does not provide some details like fares or the best route to take at that particular time. This system aims at taking the features from all the existing applications and making them available at a single place and also adding some new features, like the live video feed.

DISADVANTAGE

- Heavy noise in a very crowded place can disturb the result.
- Low signal problem

III. PROPOSED SYSTEM

Proposed app has features like audio input and output, information about transport, and suggestions.

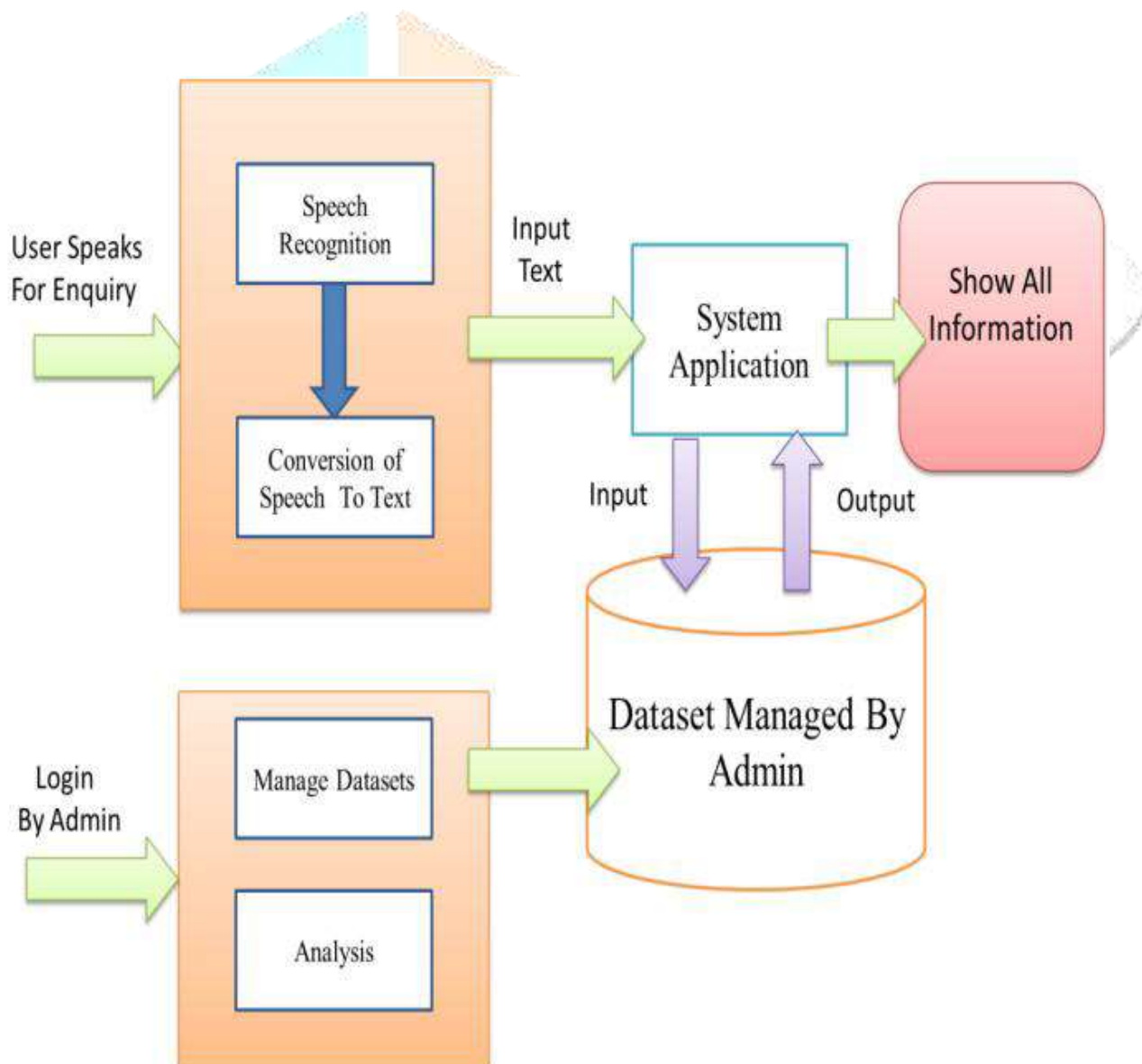
AUDIO INPUTS AND OUTPUTS

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.

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.

IV. SYSTEM ARCHITECTURE



ASP.NET

ASP.NET is more than the next version of Active Server Pages (ASP); it provides a unified Web development model that includes the services necessary for developers to build enterprise-class Web applications. While ASP.NET is largely syntax compatible

with ASP, it also provides a new programming model and infrastructure for more scalable and stable applications that help provide greater protection. You can feel free to augment your existing ASP applications by incrementally adding ASP.NET functionality to them. ASP.NET is a compiled, .NET-based environment; you can author applications in any .NET compatible language, including Visual Basic .NET, C#, and JScript .NET. Additionally, the entire .NET Framework is available to any ASP.NET application.

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

V. MODULE DESCRIPTION

- **ADMIN MODULE**
- **USER MODULE**

ADMIN MODULE:

In our propose system admin is one of the module how have all rights to access the system and data related to it.

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

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:

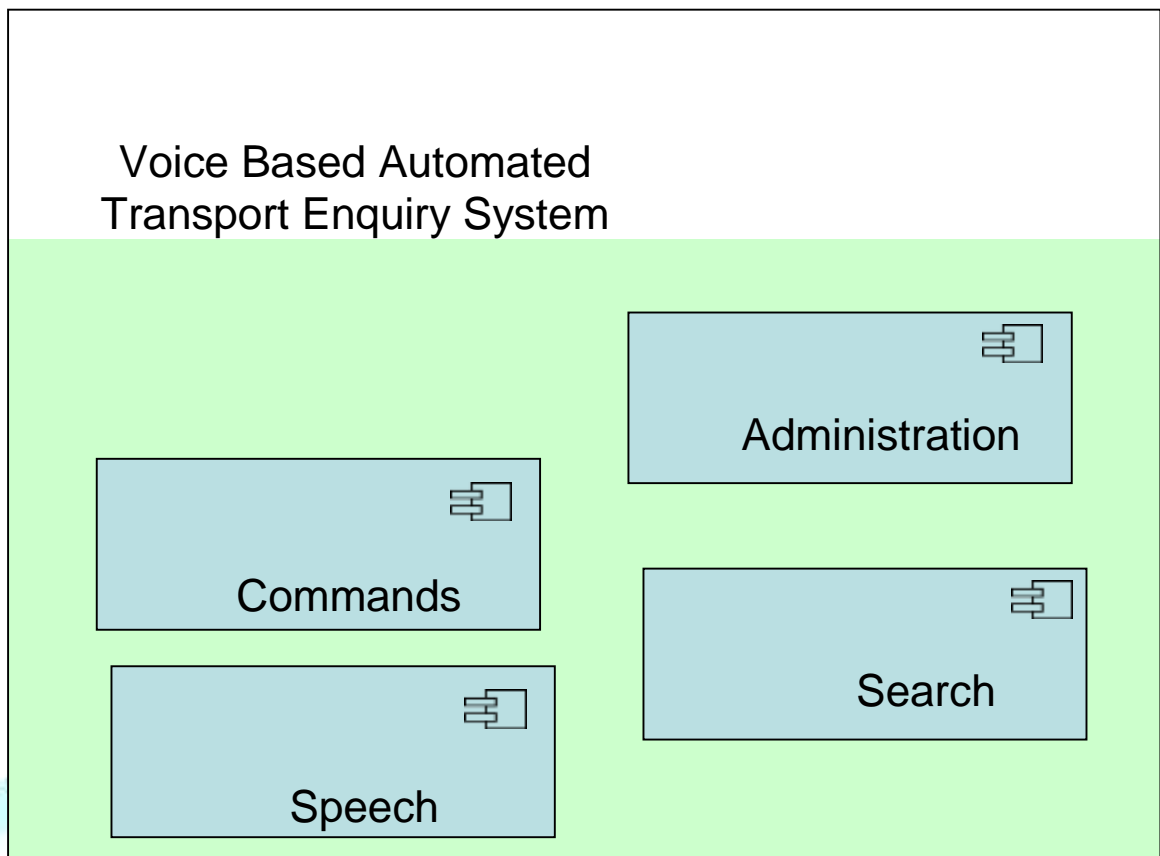
This is one of the major components of the current system which recognizes the commands given by the user. This component is responsible for recognizing the commands and interpreting the command and sending appropriate request to the Search component.

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.



VI. 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.

Application

- 1) Bus Stand
- 2) Railway Station
- 3) Air Ports.

VII. REFERENCES

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<http://www.speech-topics-help.com/self-introduction-speech.html>

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BOOKS

Murach's ASP.NET 2.0 Web Programming with VB 2005 Pro