Tourism Simplified Through Voice

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II. OBJECTIVE

Simplified Through Abstract-"Tourism Voice" is implemented specifically on Mumbai. This is an android app platform which is providing many features including voice commands. The app "Mumbai Guide" is designed for the user who wish to travel to Mumbai but don't have contacts or any recommendations. So the extra expense of tours and travels will be reduced due to this app. User can choose amongst given languages and chosen language will be reflected through out the session. User can see weather, map explore places and see places information and near by restaurants, hotels are given and user can plan their trip with verified travel partner of Mumbai Guide, on search of particular place the relevant information is provided, such features are provided.

Keywords- Mumbai Guide, Voice input, languages.

I. INTRODUCTION

Mumbai Guide is a free and open platform without the bound of registration. The project is based on the user requirements to have detailed information, near by hotels, near by restaurants for any specific place being physically present or not. It reduces the language barrier which is most common in human interaction as well as while using system. He doesn't have need to type to touch each time, voice commands will perform all tasks. The chosen language by the user will reflect till the end of the session. As there should be ease of communication and user-friendly UI there is no need to login or register before using the app. User can come and go any point of time being anywhere. The user can get the relevant information by clicking live picture of any place and on uploading he can get the information related to the image in previously chosen language. User will get the option of exploring the city Mumbai and to plan their trip based on his suitable options. He can see the images of famous places of Mumbai and see information related to it as well as he/she can check live weather and map option is also provided to fetch the route using Google map API. Everything by sitting at home, just a click away.

The main objective of "Mumbai Guide" is to have as many users as possible. And for that we have tried to overcome with all the barriers which stops users from using the app. From literature survey we found constraints which stops user to interact and we tried to implement them and integrate in this one single platform. We have kept this platform an open so there wont be any requirement for user to login or register.

Background:

"Tourism Simplified Through Voice" is implemented specifically on Mumbai, and the app "Mumbai Guide" is designed for the user who wish to travel to Mumbai but don't have contacts or any recommendations. So the app will plan the trip according to their requirements and the key feature is the commands will be prompted via voice and there wont be any language constraint.

III. LITERATURE REVIEW

The literature survey states that there are many individual modules which are useful for different parameters related tourism. Keeping end user can be of any type in mind the system should be as simplified as possible. Different websites and apps does not provide a single platform for all user's desirable inputs. It states that user's requirements are not being satisfied at a single platform. He has to go to another page for some minor information.

(1) Analysis on 'Expenses' issues Anyone planning a holiday will have to go for a tours and travels to not knowing places. But instead there are simpler apps who shows and gives details of such places where user can go. In such a way the expense of travels will be reduced and secured money can be invested in other ways.

2) Analysis on 'Language Barrier' issues English iscommon language worldwide, but what about if people doesn't understand it? Within Indian there are more than 10 languages which are spoken. To make an ease to understand in guidance of travel, one can access from anu where anytime with his

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suitable language option and no need of typing will be required. One can speak and have communication.

3) Analysis on 'Reports / Reviews' issues If something new arrives, people just don't go to buy that, or use that, before that he will always see other's response to it. For example – for going to watch a movie, there should be 1) Famous actor, actress and 2) The reviews of other people on that movie and ratings by boards. On that basis one decides to watch that movie or not

4) Analysis on 'Glance / Overview / History / Weather issues When we need to make a travel app then weather is important function to have attention or history of any places can be displayed so that after reading and images of that place it might excite the person to visit.

FINDINGS FROM LITERATURE REVIEW

Using existing system, we found the missing and important part i.e. voice communication in chosen language. Hence, we choose to integrate every important feature from existing systems and innovatively add voice communication with chosen language enhancement, this will help user to have accurate and required results.

IV. METHODOLOGY

Tool :

Android studio (android app):**Android App** is a software designed to run on an Android device or emulator. The term also refers to an **APK** file which stands for Android package. This file is a Zip archive containing app code, resources, and meta information.

Android apps can be written in Kotlin, Java, and C++ and are run inside Virtual Machine. The official development environment is Android Studio. Technology:

Camera application API : The Android framework includes support for various cameras and camera features available on devices, allowing you to capture pictures and videos in your applications. This document discusses a quick, simple approach to image and video capture and outlines an advanced approach for creating custom camera experiences for your users.

Google API :Google APIs are application programming interfaces developed by Google which allow communication with Google Services and their integration to other services. Examples of these include Search, Gmail, Translate or Google Maps **Google voice assistant** :The **Google Assistant** Service exposes a low level **API** that lets you directly manipulate the audio bytes of an **Assistant** request and response. Bindings for this **API** can be generated for languages like Node. js, Go, C++, Java for all platforms that support gRPC.

Gmail API : The **Gmail API** is used to interact with users' **Gmail** inboxes and settings, and supports several popular programming languages, such as Java, JavaScript, and Python.

Weather forecast API :The Openweathermap weather API uses JSON to exchange data. The weather API returns current weather, forecast, historical weather information and weather station data. Moreover, it also has UV index data. ... All these APIs are free to use, you have to create a dev key so that you can make requests.

Google map API :A map is a symbolic depiction emphasizing relationships between elements of some space, such as objects, regions, or themes. Many maps are static, fixed to paper or some other durable medium, while others are dynamic or interactive

SMS sending:SMS stands for short message service. Simply put, it is a method of communication that sends text between cell phones, or from a PC or handheld to a cell phone. ... Every so often, your phone and the tower will exchange a packet of **data** that lets both of them know that everything is OK.

Text-to-speech :**Text-to-speech** (TTS) is a type of assistive technology that reads digital **text** aloud. It's sometimes called "read aloud" technology. With a click of a button or the touch of a finger, TTS can take words on a computer or other digital device and convert them into audio.

Speech-to-text : **speech** to text software, or automatic **speech** recognition (ASR) software, or **voice** to text software, is a computer program that uses linguistic algorithms to sort auditory signals and transform that **information** into words using Unicode characters

Wikipedia :Wikipedia is a free, multilingual online encyclopedia written and maintained by a community of volunteer contributors through a model of open collaboration, using a wiki-based editing system

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V. CONCULSION

Hence, the user who wish to travel to Mumbai will have all facilities so that he doesn't need any dependency to travel. Basic aim is to have user friendly environment where user can freely search and get respective satisfactory results. In one platform only, his/her work should be done so no need will be there to visit multiple websites or apps or have human guide and expense more money.

VI. ACKNOWLEDGMENT

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VII. FUTURE SCOPE

The main thing which can be performed in future is, this app is bounded within a region i.e for Mumbai, so in future this features should get provided for all over the world. In future, the app can also hold the power of showing famous activities with prices and different constraints can be reduced. The tour guide can be verified. In camera feature ML can be added that will make the app more effective. If the user is moving towards any specific region then the planning and plotting can be provided for user to move accordingly.

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