Tour Guide App

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Abstract— The motive of this android application, is to manage a tour for the users through mobile computing with complete requirements and needs in location. about each and every tourist location in that particular city or place with tailored description. It also enables user to search a particular location efficiently. App module has a tailored information and facility through mobile phones on user to plan any journey and to provide traveler awareness of the current COVID "Hill stations" and "Adventure sports" category. multiple set data analysis and compared with the complete search technique of identical service quality performance.

INTRODUCTION

This project in itself is a tour of India; this android application is wholeheartedly ready to tackle every single query of users and fulfilling their every demand and requirements. Human beings at time are struggling with a number of dilemmas and one such area where they are obvious to get confused is while planning a tour.

Some people always love to travel and discover new places but many a times they end up ruining their tour just because they hardly know places where breathtaking views and surroundings can hold them apart from rest of the world..

It would not be wrong to say that mobile applications are ready to provide every bit of information just by a click. Mobile devices covers every categories of information starting from Politics, nd among them only some mobile applications are developed to provide information about India's bounteous heritage, rich traditions, mesmerizing and scenic landscapes. So WANDERLUST is one such application which is ready to fulfill the demand of every user and making their tour a memorable one.

LITERATURE SURVEY

1] mainly analyses that information system success model is used as the basic theoretical model and along with this satisfaction, usefulness and perceived ease of use are also taken into consideration to enrich the whole model of urism sector may generate employment, may bring about increase in production, and provide better opportunities and services for all. Planning Commission must lead tourismPlanning

Commission in India says that as India is the world's 7th largest tourism economy development in education, tourism sector may generate employment, may bring about increase in production, and provide better opportunities and services for all

2. In the research paper Dongwook Kim [2] utilized multiple sources, such as patents, academic articles and news and selected methodologies optimized for various purpose in the field of tourism. Furthermore, because mobile technology has become an indispensable, it also expected that tourism acquires sustainable competencies

3. focused that technology must play a central role in improving the well-being and integration of people with disabilities into society, providing tools to enhance accessibility to touristic and other types of services. Concerning the use of mobile applications in accessible tourism, they proposed two apps for visiting archaeological sites both indoors and outdoors, this case intended for people with auditory disability. Another application of accessible technology in a museum installation can be found in for the Whitney Museum of American Art and this described an application for people in a wheelchair to find optimal travel plans. T

METHODLOGY

, the flowchart depicts the workflow of the application. First, the application is launched then the splash screen appears, after the splash screen, the Login/ Registration appears. In the Login/Registration page the user has to login using their name, e-mail and password or the user could register itself. We have used firebase in the login page, so as to generate OTP and match passwords. If the Login fails the user can use forgot password or Login again. Then comes the User Dashboard which consists of four buttons As shown below, the flowchart depicts the workflow of the application. First, the application is launched then the splash screen appears, after the splash screen, the Login/ Registration appears. In the Login/Registration page the user has to login using their name, e-mail and password or the user could register itself.

We have used firebase in the login page, so as to generate OTP and match passwords. (Places, COVID-19, Naxalite, and Culture), Featured location and at the top left is the navigation drawer, where all the categories are there. The Buttons/Options open to a new page which consists of data which is inserted using Firebase. The working of WANDERLUST application system can be understood as follows. At first the application displays the dashboard on the screen which presents WANDERLUST with 4 buttons i.e. PLACE, COVID AREAS, NAXALITE AREAS and CULTURE. The user opts the button as per his/her choice. If the user wants to go ahead with PLACE, then he/she must click on it. After selecting the button PLACE, it displays further

options which say.

- about different cities of Chhattisgarh. After user selects the city which he/she wants to travel around. It further displays the famous spot, which a traveler would never miss out. If the user wants to know about the areas which are more or less affected with covid-19 pandemic, then he/she must go for COVID AREA option. After opting for COVID AREA, the user will get to know about the areas which are more affected and which are less affected so that user can plan a tour with all the necessary precautions If the user wants to explore and travel the backward region or the NAXALITE AREA to the extent which is permitted the he must go further with NAXALITE AREA option, which would provide every information regarding that place in an elaborative way to the user. .
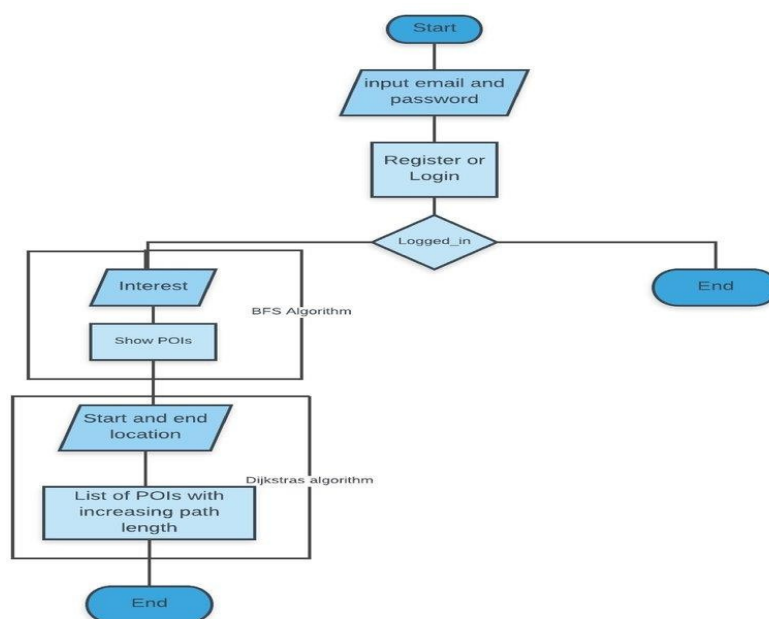

Fig 1.1 :- Flow Chart For Frontend User Interface:

- 1. Android Studio: Android Studio is an "IDE made accessible at no cost by Google to Android developers", it's supported IntelliJ IDEA that also offers a good Android development environment. It is a replacement for the Eclipse Android Development Tools (E- ADT) as Android Studio has higher start-up time, response speed and memory usage. It has smarter editor that absorbs advantages of Eclipse and ADT. Android Studio also supports every plugin, such as Git, Markdown and Gradle.

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- 2. Android SDK and JDK: Android SDK (Android Software Development Kit) is a collection of software development tools and libraries required to create, compile and package Android applications which is based on the Java programming language. The SDK for Java programming language is called JDK (Java Development Kit), which is included in SDK. These tools provide a smooth flow of the development process from developing and debugging, through to packaging

- 3. Java Programming Language: Java is a high level object- oriented programming language

designed to possess as few implementation dependencies as attainable. Java works as write once, run anywhere (WORA), meaning that java compiled code can run on all platforms that support Java without the requirement for compiling the code again. Java applications are compiled to byte code that can run on any Java virtual machine (JVM)(the reason java code can run on any computer system that supports java) regardless of the underlying computing system. The syntax of Java is similar to C++, i.e., java is also class based programming language. The Java runtime provides dynamic capabilities (i.e., reflection and runtime code modification) that aren't accessible alternative compiled languages..

Fig 2.2 :- Flow Chart For Backend Server

3. Java Programming Language: Java is a high level object- oriented programming language designed to possess as few implementation dependencies as attainable. Java works as write once, run anywhere (WORA), meaning that java compiled code can run on all platforms that support Java without the requirement for compiling the code again. Java applications are compiled to byte code that can run on any Java virtual machine (JVM)(the reason java code can run on any computer system that supports java) regardless of the underlying computing system. The syntax of Java is similar to C++, i.e., java is also class based programming language. The Java runtime provides dynamic capabilities (i.e., reflection and runtime code modification) that aren't accessible alternative compiled languages.implemented to restrict unauthorized access.

4. Firebase: Firebase is a platform for creating mobile and web applications developed by Google (now). In 2011, it was found originally as an independent company and in 2014, Google acquired it and now it is their flagship that offers app development. Firebase is used to develop and upgrade your application. The services provided by Firebase are analytics, authentication, database, file storage and many more.

Fig 3.3 :- Database

PERFORMANCE EVALUATION:

Pragyan's performance was evaluated based on response time, accuracy, and user satisfaction to ensure its effectiveness as a virtual assistant.

- *Response Time Evaluation:*

- Pragyan's response time was measured to ensure real-time interaction with users. The system was tested to determine the time taken to generate responses to user queries, ensuring prompt and efficient communication. Real-time interaction is crucial for providing a seamless user experience, and Pragyan's response time was evaluated to meet this requirement effectively.

- *Accuracy Assessment:*

- Pragyan's ability to understand and respond to user queries accurately was assessed by comparing its responses to a set of predefined ground truth responses. The system's accuracy in interpreting user queries and providing relevant and contextually appropriate responses was evaluated. This assessment ensures that Pragyan delivers accurate and relevant information to users, enhancing their

overall experience.

- ### *User Satisfaction Survey:*

- User satisfaction with Pragyan was evaluated through surveys and feedback collection. Users were asked to rate their experience with Pragyan based on factors such as effectiveness, usefulness, and ease of use. Their feedback provided valuable insights into the system's performance and helped identify areas for improvement, ensuring that Pragyan meets user expectations and requirements effectively.

- ### *Comparison with Existing Systems:*

- Pragyan's performance was compared with that of existing virtual assistant systems to identify its strengths and weaknesses. The system was evaluated based on response time, accuracy, and user satisfaction metrics, and the results were compared with those of other virtual assistant systems. This comparison provided valuable insights into Pragyan's performance and helped identify areas for further development and improvement.

PERFORMANCE

This application manages various users all at once and this is possible because of synchronization which is made with server. Compared to the existing offline system where knowledge about different places where available on books or globe and the path was decided through maps which actually made the planning of tour a stressful and a hectic one, the performance of online system through the propose.

 methodology will be way better. It saves a lot of time and money, it can be given at ease from anywhere to everywhere may it be home, office and including your vehicle. Information will be just in your tip without searching for different books or sites, without wasting much of your time and money and it can be accessed through any device such as mobile phone, laptop or computer but just through one application that is WANDERLUST. .

CONCLUSION:

There is no doubt that the mobile apps have become one of the most vital aspects for the travel and tourism world. The conclusion of online Tourism Application is that it is a well-planned and organized platform for users which help them in planning their tour at their ease. Plus point of this platform is that the users do not have to wait for the sample of prepared plans and tours that are according to their requirement and satisfies their need to every extent. Only admin has the authority to make the changes in the packages and the sample being prepared.

It is a very helpful platform in present time, where everyone is not backed with knowledge of different place this application even provide solution to those users who even have zero knowledge about different places. Seriously, to talk about planning for a
memorable vacation with the family members wasn't that simple before the advent of these tourism application such as WANDERLUST which made everything easy from booking tickets, hotel bookings, managing time, distance and even within the decided budget. Therefore, what one needs expect everything under one roof that is what WANDERLUST does.

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