SMART TRAVEL GUIDE APPLICATION FOR ANDROID MOBILE

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ABSTRACT: The travel industry is growing drastically as never before and since there are always new apps coming out one of the most thought over questions is what are the essentials ingrediants of the best travel apps? There are tons of different travel apps out there today ,with all kind of interesting features. In today's market there are different app with diferent -different function,as an example Google maps for maps and location,other is trivago for hotel booking and so on. But there are problems faced by toursits While visiting new places ,they often have a complaint that they cannot access and obtain travel information timely and on-the-go. This Smart Travel Guide App seeks to solve that problem by generating feature -rich texts,pictures,videos,and any other guidance - related details requested by the users so they can explore toursits destinations better.

1.INTRODUCTION: The aim of the product is to develop an android app that help travelers on their journey. This whole project helps the customer as an overview to travel around in a brand-new city. so as to get to the application ,you need to initially register and after that need to login to the system.From after that , you can choose the places to check out .when you click the desired city ,it will immediately present the renowned sites to check out in that location . Our Sytsem capatitalize on light-weightes mashup technology that can integrate greater than one information sources to create value-added solutions, while overcome the limitations of smartphones .Since the proposed app is based on request and response , it does not require the continual acquisition of bandwidth.

2.LITERATURE REVIEW: In a previous study that made a tour guide application using informative, interactive augmented reality technology and user-specific experiences .[1]Tourism Tamil Nadu E-Guide proposes a Mobile travel guide system architecture capable of providing tourism information to mobile users easily developed

using Java as the Front end and SQL as the back end [2]. Mashup technologies that can incorporate more than one data to create value-added services by taking advantage of light-weighted can provide information for tourism guides[3].

Prototypes of travel guide applications were developed using the Smart Space infrastructure to facilitate the integration of the services and internal processes in the system that enable up-to-date information retrieval complete with recommendations and personalised service[4]. Integration of travel guides with social networks and a unique set of options offered in the app. The Mobile travel guide system with three layers of web development architecture was developed to help travellers on their travel[5]. The Global Positioning System (GPS) mobile phone provides a location-based travel guide application for indoor or Outdoor environments .

3. METHODOLOGY: Mashup technology is a useful for this application .Along with web- based applications becoming richer and related technologies becoming more mature , Mashups based on open web APIs have shown the power of integrating applications and data sources to create novel and situational web services to serve needs of users . A Mashup can combine two or more data data sources (content or service) to provide several new services or contents to the users. More importantly, it is a lightweight web application program. The data or contents are mashed up in the mashup serverside.

Furthermore, no matter what the mobile client is a Web browser or not, it is able to understand the format of the data or contents. The advantage of mashup technology is greatly exploited for the application of mobile devices.

Project functionalities:

❖ The application gives a choice to the users to access their needed place without any

physical movement.

❖ The user can have a look over these choices and can access information likephone no,

address, email and image of the particular place

❖ The application is most beneficial for new visitors in city.

❖ The application database is directly connected to the Google maps services.

❖ The application also shows current longitude and latitude of the user

❖ The application extends the use of global positioning system and adds-on to its functionality.

Modules in Application

• Find Current Location

• Locate in Map

• Calculate Distance between two Cities

• Video Search

• Weather Forecast

4. FUNCTIONAL REQUIREMENT:

1. LOGIN AND SIGN-UP: To authenticate a user of the app

2. TRIP PLANNER: This will allow plane the trip from source to destination.

3. GEOLOCATION: this will give the exact location of the user in the unknown area on travel.

4. CIRCUIT PLANNER: This finds the optimal route for multiple location stoppage points between source and destination .

5. WEATHER FORECASTING : With the current user location weather of that area will know to user.

6. WORLD CLOCK : with the current user location time of that location will know to user

7. CURRENCY CONVERTER : This will help for international traveler to convert the currency with a live real- time exchange rate

8. SAVE AND SHARE LOCATION: This will help to save the location for future visiting and to share that location with friends

9. EMERGENCY SERVICES : To get emergency help near you .

10. VIDEO AND PHOTO SEARCH: in this search to view the correct spot, like how it looks**.**

System Architecture

The architecture of this system contains three layers: presentation layer, logical layer and Data Sources layer. Presentation layer provides the interaction between the end-users and the system. The mobile end-users usually interact with mashup server through the mobile Web browser. Because of the limitations of mobile device, the content displaying issue needs to be addressed in this layer. Logical layer is the most important layer of the system. It deals with data and services from the data sources layer and the mobile end-users.

The transformation of XSL converts the format of XML which is from the data source layer into the format of WML (Wireless Markup Language), which is ability to deliver the result to the mobile Web browser by the Wireless Application Protocol (WAP). Data sources layer provides data, content and service to be mashed-up by the open web APIs and databases. Currently, more and more websites provide API to the developers and researchers. The APIs of Google Maps is the most widely used in the diverse areas. The most popular protocols used by the APIs are REST (RepresentationalState Transfer), SOAP (Simple Object Access Protocol), and RSS/Atom. For those data in the silo, we can extract the content using other technologies such as screen scraping. These protocols which have their own advantages should be chosen according to the actual needs. Therefore, we choose Google Maps API, as the data sources. The mashup server communicates with data sources based on APIs by REST[6].
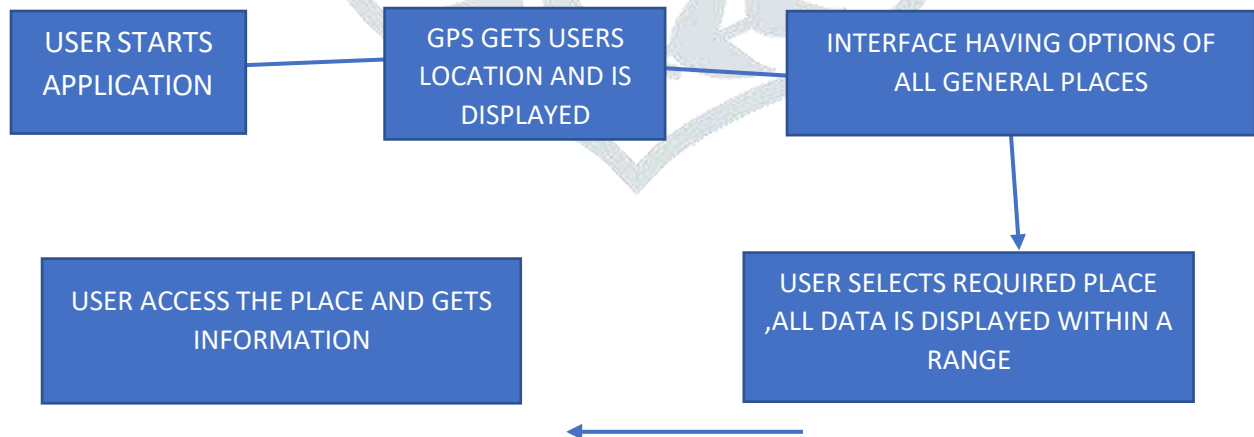
5.USE CASES AND ACTIVITY DIAGRAM:

Usecase:

USECASE DIAGRAM :SMART TRAVEL GUIDE
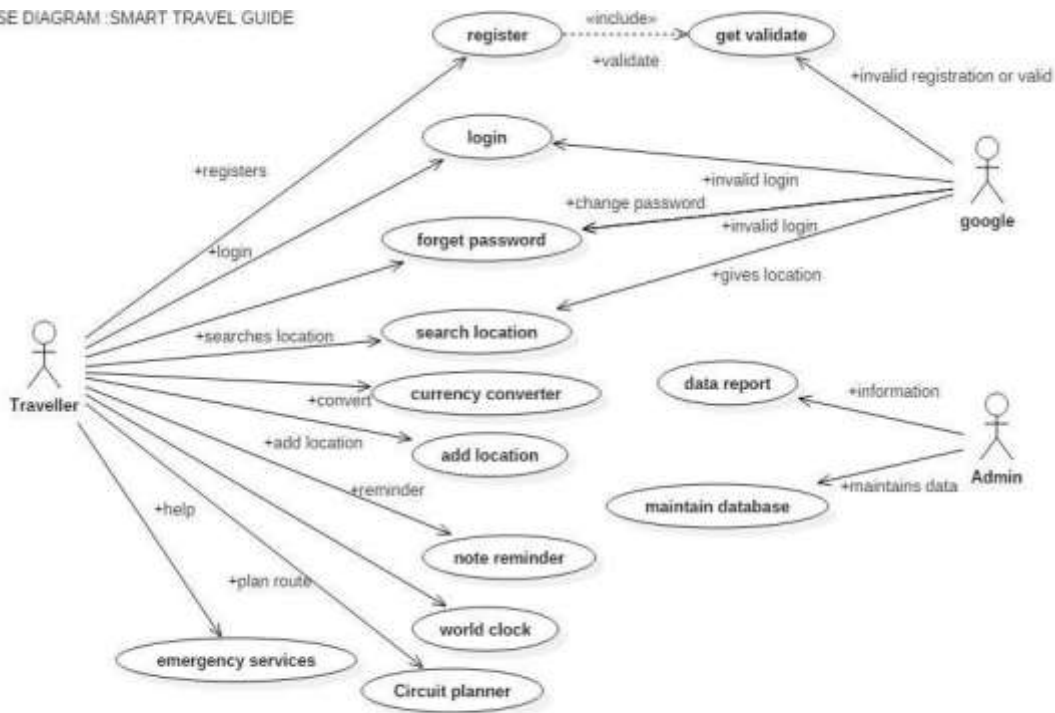
Activity diagram:

6. CONCLUSIONS: In this, we presented the design and implementation of a mobile application called smart travel city guide ,with which mobile users can get tourism guidance information they need anytime and anywhere.

❖ By smart travel city guide , users can get an attractions detailed information ,including text ,picture and video .In particular ,smart travel guide can provide users with location – based information ,which can be browsed or queried through a map .user can search the nearby attractions after he or she configures the distance between the current location and the view spots. when the user moves out of the current location ,the mobile phone will automatically send its new position to the server side ,and the corresponding attraction list will be received by the user.

7. REFERENCES :

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