Intelligent Tourist Guide

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Abstract: *The Project is named as "Intelligent Tourist Guide". Digital devices are everywhere nowadays; this project is mainly for tourist who usually faces difficulties in visiting tourist places. This project will help to improve the existing travelling system in smart phone by solving the tourist confusions while travelling many new places also this project helps in many other aspects as well. This project is user friendly, quicker and flexible with many customisable options. This project is built using modern Software and API's that can work in many platforms not only in android OS.*

Key Word: *Location, GPS, Destinations, Distances, Route, Food, Accommodation, paths.*

I.INTRODUCTION

Nowadays people use mobile phones and other digital devices. Most of us have a small computing device that is always with us. People use it for example calling, as calendar and organizer. Mobile devices with GPS receiver are also used to find paths in navigation. The main idea of this approach is to design a system that will run on most of digital devices and will be helpful when visiting some new places and cities. This system should be able to find a route using user criteria. The system should find a path that fulfills those criteria, show it on screen, show names of places suitable for tourism, some short descriptions and photos of them and possible entrance costs. It should also be able to estimate time needed to travel from one place to the next and if it is possible, advise which bus line or other public means of transport may be used. It should be helpful for people that want to visit a city without having much information about it. Paths that are output of this system are only a proposition for trip.

II.LITERATUREREVIEW

There are many kinds of tourism projects but some of the drawbacks and features are left over. The existing system is failed to propose a much-needed navigation system. Some of the drawbacks in the existing system are less efficient, slower, outdated methods, platform limitations.

Author	Topic	Remarks
P.K. Jithin, M. Vishnuram, P. Prasath, J.T. Thirukrishna	Tourist guide for Tamil Nādu	It does not support features such as multiple destination option. Cannot be operated on different platforms.
DadapeJinendra R, Jadhav Bhagyashri R, Gaidhani Pranav V, Vyavahare Seema U, AchaliyaParag N.	Smart travel guide	Cannot be operated on different platforms. Feels like using a older device because of user interface
Krzysztof Jeleń	Intelligent tourist information system	Cannot be operated on different platforms.
Laura Martínez Garcia ,Silvana Aciar RaynelMendoza,Juan José Puello	Smart Tourism Platform Based on Microservice Architecture and Recommender Services	It provides no help to those who don't have their presence in social media.
HARINI, ASHMITHA, DEEPAN RAJ K, JANANI S R	Virtual Tourist Guide	Not helpful in case the mobile doesn't have a good quality camera.

III.MATERIAL AND METHODS

There are many tourists guide mobile applications or maps that never solve the problem of the tourist in many cases. One of the major requirements of the tourist or travellers is to find the path for their destination. Since there are maps to solve the route problems, but there is no solution for the tourist to find the best ways to reach their number of destinations and most of the tourist miss local and historical places while touring . While visiting a place the tourist maybe misguided by the local tourist guide and no solutions are present to solve this problem.

A. Methodology
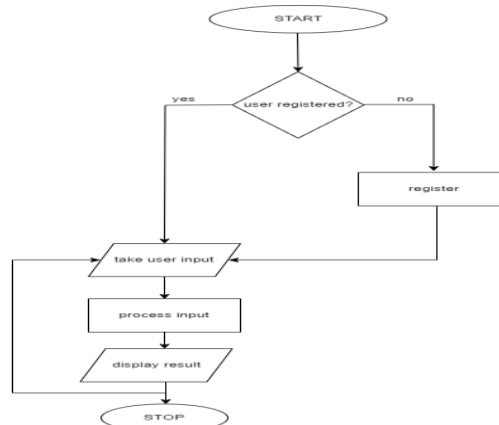
B. Steps

Step 1: Register
Using the register module, the user registers himself to the application by providing required details.

Step 2: Login
Using the login module, the user signs into the application by entering user-id and password.

Step 3: Giving criteria as input
According to the user he can customise the parameters given to him such as weather condition (temperature, rain etc), distance, number of days, etc.

Step 4: Getting various places
After step 3, the user should give the name of the place to travel from the displayed list.

Step 5: View details
According to the input given in step 4 the user can view the various details related to that such as food , accommodation , path to reach that place and local tourist places.
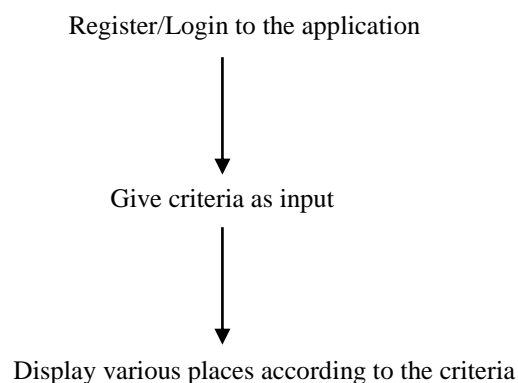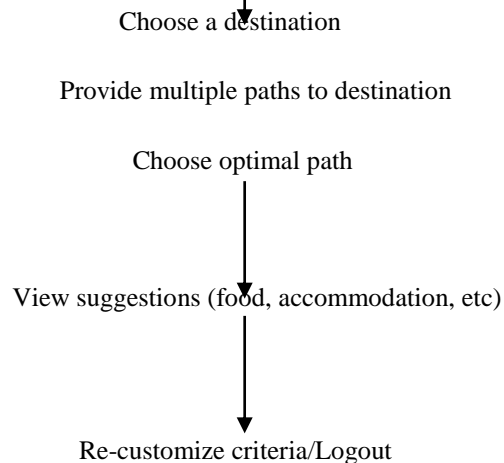
Step 6: Repeating step 3 to step 5
If the user is not satisfied with the results, he can re-customize the parameters and can repeat the process.

Step 7: logout
User can logout from his session when he wants.

C. Process

Choose a destination

Provide multiple paths to destination

Choose optimal path

View suggestions (food, accommodation, etc)

Re-customize criteria/Logout

D. Modules

1) Register: This module helps user to register to the application by filling out the required details.
2) Login: This module helps the user to getting logged in to the application by providing user-id and password.
3) Criteria input: This module takes input from the users in form of parameters that are given in the application.
4) Display results: This module displays the results generated by the system to the user.
5) Map module: This module consists of maps to visualise the multiple paths to reach the destination.
6) Food and accommodation suggesting module: This module provides results regarding the food, accommodation and other details which may help tourist in staying purpose.
7) Logout: this module ends the session of the user with the application.

E. Software Requirements

1) Vs Code
2) React JS
3) JavaScript
4) Android Studio

IV.CONCLUSIONS

INTELLIGENT TOURIST GUIDE suggests tourism places to people who want to travel based upon their customized interests. Promotes local tourism and boosts the economy. Upon implementing all the features, it may allow people to explore the local tourist places.

V.FUTURE ENHANCEMENT

We look ahead to develop this mobile application not only in android platform but also for iOS and Web application platform since this project is about to be developed using React JS which is a native cross-platform development framework.

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