

Project Proposal

Smart Tourist Guide

Course: SE-505 Software Project Lab–II

Submitted by

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**Submitted to
SPL II Coordinators**



**Institute of Information Technology
University of Dhaka**

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Proposal Submission Letter

Date: 22.01.2019

The coordinator, SPL-2

Institute of Information Technology, University of Dhaka

Subject: Application for approval of project proposal.

Dear Sir,

By referring to the above matter, I would like to present the Project Proposal document. The main purpose for this proposal is explained below.

We hope that you can go through this document. Please notice for any modification.

Sincerely,

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Smart Tourist Guide

Introduction

This project is an android application which will recommend users about the places or things, users can search places according to their interest and routes to the destination. The long time which tourists waste on searching for the better places like hotels, museums, parks etc. for their enjoyment in the new city which is totally unknown to them will get reduced, if they use this application. This idea is useful for all those who love to travel in a new city on a regular basis. This project includes some features like user profile, place recommendation, traveling area search, routes to destination places , place rating and user feedback

Objective

This android application will give some advantages to the users-

1. This application will reduce the wastage of time which is spent for searching places according to user interest.
2. This application helps the users by recommending places based on their past visited places.
3. Users get advantage to find the best routes from current location to destination.
4. User can read other user feedback and rating about a particular place.

Motivation

Travelling and touring are popular leisure activities around the world. Despite the availability of online travel guides travellers face many problems. Economically, tourism is also an important and lucrative industry. As this kind of android application development is rare in our country, the tourist of our country find difficulties to visit their desired spot when they travel a new city. According to BTRC report 2017, 54.28% SIM connected to internet. Almost 90 lakh people use android smartphone which is about 5.4% of total people of our country. Along with those we have some native smartphones and unauthorized smart phones too. So this application has market place in our country.

As there is no existing data set for this kind of application in our country, it's challenging for us. This idea seems interesting to us to do the project.

Project Description

Tourist guide system will automatically recommend users about the places; users can also search places according to their interest. To use this application user must register and login. Then a profile is created for the user where history of his previous visited places will be saved in database. It will automatically recommend places for the users based on previous history through previous data. Data will store in web database. Through an API, it will get the training data from web database. Moreover, user can search based on topic like parks, museums, restaurants etc. and also able to see the rating and feedback of the place given by other users. It will route to the destination from current location. Users will give feedback and rating after visiting particular place.

Deliverables

The deliverables of this project are-

- SRS documentation: Requirement specification and analysis of the software.
- User manual.
- Android Application.

Required technology to develop this application are-

- Android Studio
- Java
- PHP
- MySQL

Work plan

Start date	End date	Description	Duration
23-Jan	07-Feb	Requirement collection	Within 2 weeks
08-Feb	15-Feb	Requirement analysis	Within 1 week
16-Feb	03-Mar	SRS documentation	Within 2 weeks
04-Mar	15-Mar	Designing	Within 2 weeks
16-Mar	15-Apr	Code implementation	Within 4 weeks
16-Apr	22-Apr	Testing	Within 1 week
23-Apr	30-Apr	User manual and project finalization	Within 1 week

Scope of the development

In this application we cannot recommend places for new users who have no previous history. We mainly collect social media data and online resources. It will categories users through their previous visited places. It is hard to work with real time dataset. The system will work only in android environment. It will work in small area from current location.

References

Recommendation of places

<https://www.onlinejournal.in/IJIRV2I3/> last accessed 9:12 PM 1/20/2019

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4812910/> last accessed 11:10 PM 1/20/2019

Idea for the project

<http://1000projects.org/tour-guide-java-project.html> last accessed 10:10 AM
1/21/2019