A

Project Report

on

" Travel Guide "

Submitted By

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Department of Computer Science

Subject - Computer Science

Certificate

This is to certify that Mr. Harishchandra Devadatta Bansode. of M.Sc. (Computer Science) – I has completed "Travel Guide" project in the Subject Computer Science Semester –II during the academic year 2020 - 2021 .

Teacher In-Charge *Head*

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Date:

Examiner 1 *Examiner 2*

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INTRODUCTION

Build and deploy an advanced Travel Companion Application using Google Maps. With Geolocation, Google Maps API, searching for places, fetching restaurants, hotels and attractions based on location from specialized Rapid APIs, data filtering and much more, this Travel Guide App is the best Maps Application that you can currently find on the internet.

Overview

- **Features of system is**
  - Searching for exact places,
  - Fetching restaurants,
  - Hotels and attractions based on location.

- **Objective of system**

  - To help the user in its efficient way.
  - To have a faster, easier & global accessible service for the Tourists.
  - Make users plans happen by connecting with the places user interested in.

Existing System:

Google Maps is a Web-based service that provides detailed information about geographical regions and sites around the world. Google Maps offers aerial and satellite views of many places. Google Maps offers street views comprising photographs taken from vehicles.
But unfortunately, existing systems doesn't have such facility.

Need of the System

There are so many options in the market available. But the problems provided in the existing system are sometimes irritating and time consuming. Also, existing system not provides exact information about places. The existing system is not much flexible towards the user.

To overcome these problems, we required such system that can provide better UI and UX to the user, can get exact information.

Overview of the Project

Project Travel Guide is a novel approach that helps the user to give information about location where user wants to visit. Travel Guide brings people, passions and places together. We aim to help make you a better traveler, from travel planning, to booking, to taking a trip. whether you’re planning or on-the-go. Discover where to stay, what to do and where to eat based on guidance from millions of travelers who have been there before. Find deals on hotels, book experiences, reserve tables at great restaurants and discover great places nearby. No matter what type of trip you’re looking to take, the Travel Guide makes planning it easy and also lets you guide others on their way.

Hardware and Software Requirement

- **Hardware requirements:**

  - Modern Operating System:
    a. Windows 7 or 10
    b. Mac OS X 10.11 or higher, 64-bit
    c. Linux: RHEL 6/7, 64-bit (almost all libraries also work in Ubuntu)

  - x86 64-bit CPU (Intel / AMD architecture) and above CPU
  - 2 GB RAM
  - 2 GB minimum hard disk space required

- **Software requirements:**

  - Node.js (14.17.6)
  - Visual Studio Code IDE
  - Chrome Browser

System Development Lifecycle

- **Requirements from User:**

➢ Any Laptop/Desktop having internet connection.

FEASIBILITY STUDY

The feasibility study is an evaluation and analysis of the potential of proposed project which is based on extensive investigation and research to support the process of decision making.

- There are Four type of feasibility study

  - Technical feasibility
  - Economical Feasibility
  - Operational feasibility
  - Time feasibility

Technical Feasibility:

Our application is technically feasible because it will be developed at machines which are not too costly. The system is technically feasible because it doesn't require any high-end hardware and software tools to design, develop and run the system and are available easily.

Technologies which will be used for the GUI building are:

- HTML
- JavaScript
- CSS
- Google Map API's

Economic Feasibility

The system is economical feasible because it does not require any expensive technology or expensive hardware resources. Also does not require any high-end system like graphic cards, more RAM or latest operating system though. What user needs, is just a mobile, laptop or desktop. It does not require any other special device at the user-side so the system does not require much memory and space. In addition to this the system is going to be developed in react.js language which is open-

source language, so in terms of development also it is economically feasible.

Operational Feasibility

The “Travel Guide” application is having a very user-friendly UI. It doesn’t require any special training or guidance for its use. The main concept of this project is to get the information about particular location for the user hence no other special skills are required prior to its use.

Time Feasibility

The “Travel Guide” will take around 30-45 days (average 1 month) to be developed. The modules like GUI, Fetching the data, will be developed in following order:

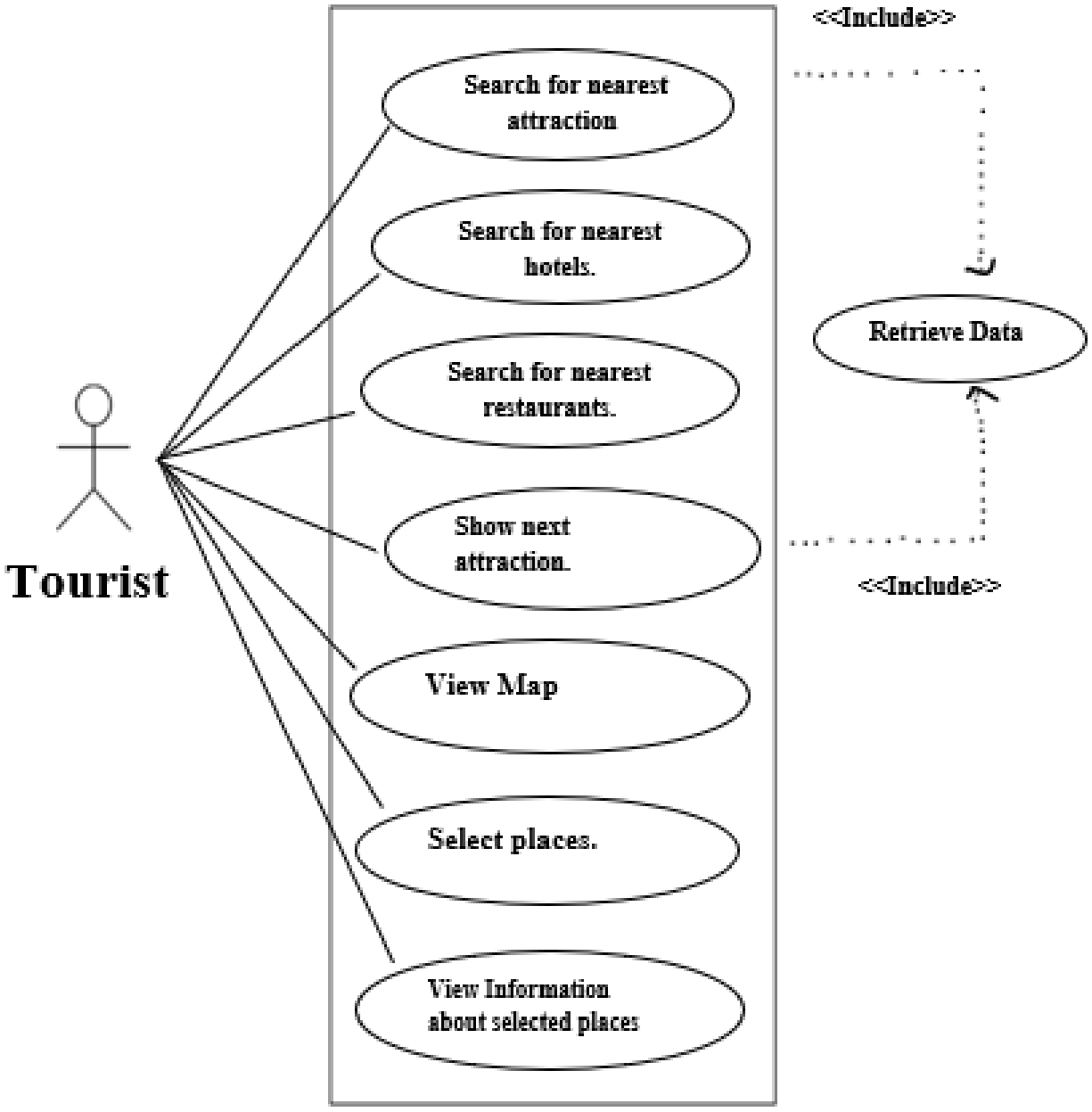
1. Working On Api’s-1 weeks.
2. GUI design - 3 weeks.

Integration-

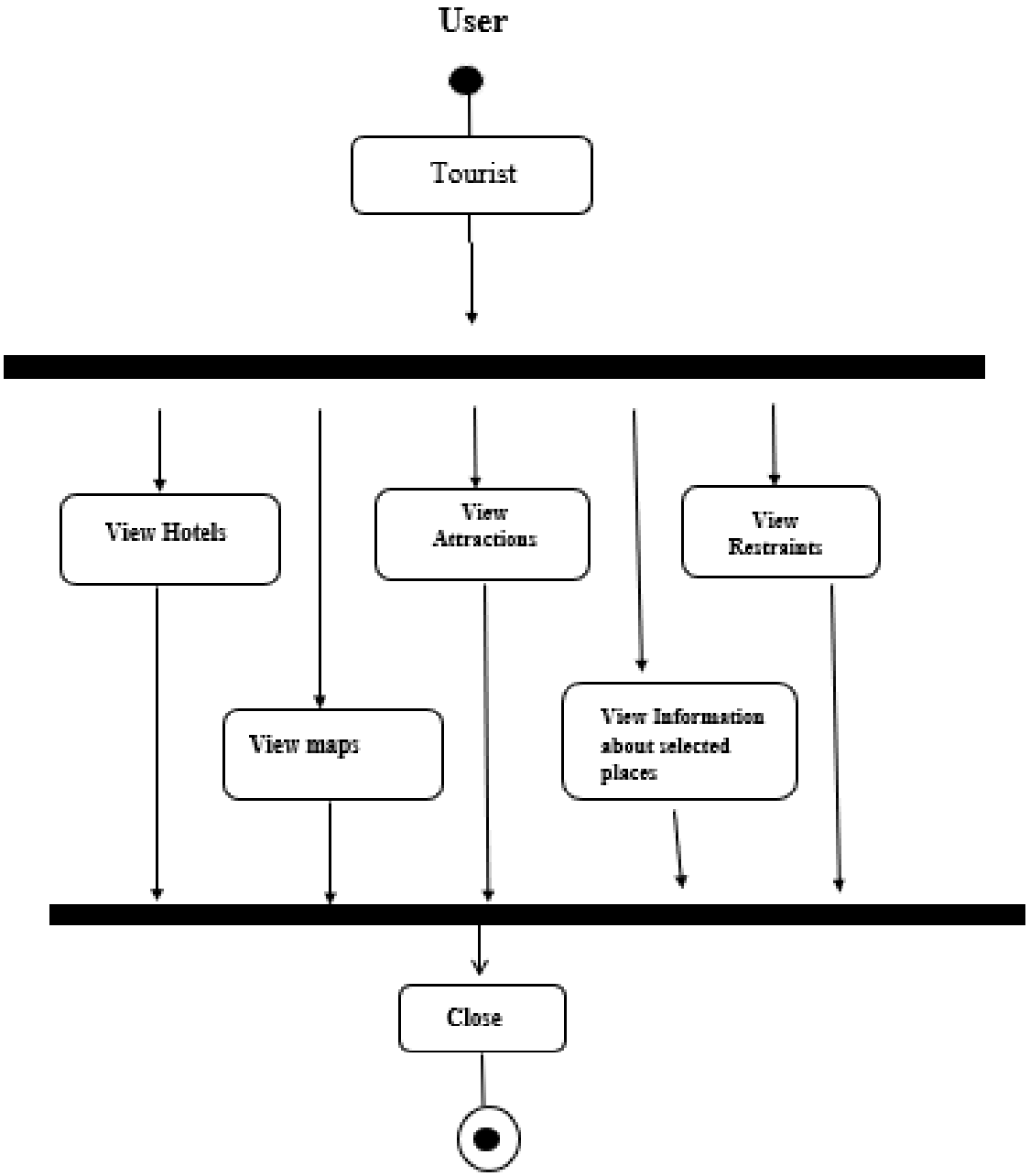
Therefore, after consideration of all aspects of feasibility study, it was decided that system will be computerized.

UML Diagrams

➢ Use Case Diagram

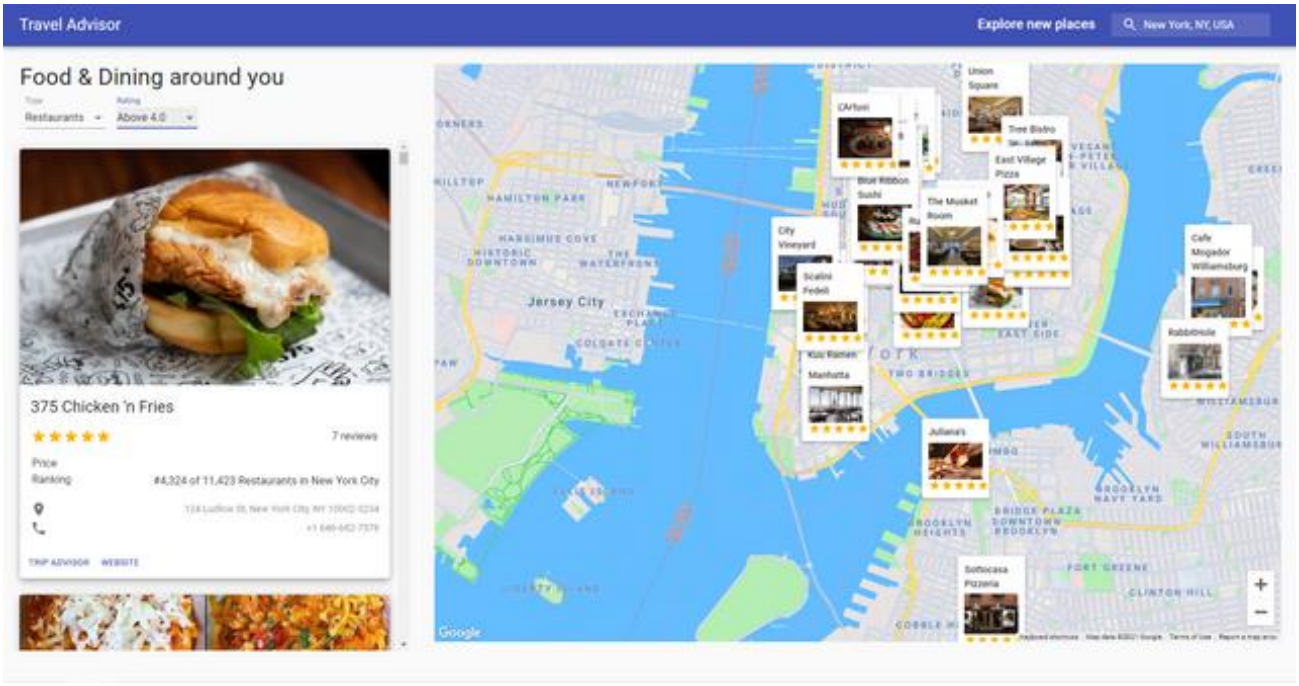


➢ Activity Diagram



Implementation

I/O Screen's



Testing

- **Importance of Testing:**

  - Testing is the process of evaluating a system or its component(s) with the intent to find whether it satisfies the specified requirements or not.

  - Testing is executing a system in order to identify any gaps, errors, or missing requirements in contrary to the actual requirements.

- **Types of Testing:**

  - Black-Box Testing: The technique of testing without having any knowledge of the interior workings of the application is called black-box testing.

  - White-Box Testing: The tester needs to have a look inside the source code and find out which unit/chunk of the code is behaving inappropriately.

  - Integration Testing: This test is the first stage of testing and will be performed amongst the teams (developer and QA teams). Unit testing, integration testing and system testing when combined together is known as alpha testing.

- Integration Testing: Integration testing is defined as the testing of combined parts of an application to determine if they function correctly.

- Unit Testing: is a level of software testing where individual units/components of the software are tested. The purpose is to validate that each unit of the software performs as designed.

- The cost of fixing a defect detected during unit testing is lesser in comparison to that of defects detected at higher levels.

Drawbacks and Limitations

- Requires a stable internet connection
- Currently works with Chrome.

Future Enhancement and Conclusion

Future Enhancement:

- ✓ Develop android app
- ✓ Can work better with unstable internet connection
- ✓ Make compatible with other browsers
- ✓ Show Additional information about particular Location.
- ✓ Show Weather Information about particular Place.

Conclusion:

The Travel Advisor is used to give a better travel experience for the end user. The application solves the needs of user. without troubling them as existing applications do: it uses technology to increase the interaction of the system with the user in many ways. It eases the work of the end-user by fetching information about hotels, restaurant, popular places.

Bibliography

I have successfully designed and implemented this project by using unmodified modelling languages. I found following sites very helpfully to complete this project.

- **Websites :-**

https://www.wikipedia.org/
Www.Google.com
https://console.cloud.google.com/
https://rapidapi.com/