PBL REPORT

Tourist Place Recommendation Website

**TO**

**SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**

**By**

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**Guided by:**

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DEPARTMENT OF COMPUTER ENGINEERING

## 

## CERTIFICATE

This is to certify that the work incorporated in the report entitled “**Tourist Place Recommendation Website**” is carried out by **Mr. Sangmeshwar Chandrashekhar Mahajan** who is part a group of students with Project Id **GROUP 1** under the subject Project Based Learning during A.Y. 2020-2021. Such material has not been submitted to any other University/ Institute for any financial support. The literature related to the problem investigated has been appropriately cited and duly acknowledged wherever facilities and suggestions have been availed of.

Date:

Place: PUNE

Name & Sign of PBL Guide Name & Sign of Head of Department

Prof. M S Chavan Prof. Geetanjali Kale

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ACKNOLEDGE

We would like to express our heartfelt gratitude to **Pune Institute of Computer Technology** for giving us the opportunity to work under their guidance and help us gain immensely enriching professional experience.

Our sincere thanks to **Prof. Mayur Chavan** (project guide) sir for giving us valuable inputs and ideas right from the selection of topic for project till its successful completion.

We would like to express our gratitude towards Head of Department Mrs.

**Geetanjali Kale mam** and staff of department as well as Principal **Dr. R. Sreemathy** madam for providing me a great opportunity to complete a project.

Many people have influenced the shape and content of this project and have supported us throughout this journey. We would like to thank each one of them for the support and guidance which helped us in completing our dissertation. It is a great relief and satisfaction whenever we accomplish a college project. Whenever a project was completed then there will be the support and guidance of our teachers, principal, friends, and family members.

The successful completion of our project would not have been possible without the dedicated support from all our mentors, family, and friends.

ABSTRACT

Tourism, these days involves mass availability and mass participation of peoples in holidays for enjoyment purpose. But many times, a tourist cannot decide which place to visit, or where to stay, also the cost associated, point of interest of each user and many such factors. So, we are going to propose a website which will recommend places of attractions to the users. For Dataset, we have scrapped holidify.com and collected data of various places and build a dataset around 1 Lakh attributes. Places were recommended based on two factors, similar users, and similar contents. Collaborative Filtering was used to recommend places based on similar users and Content Based Filtering was used to recommend places based on similar content. The Machine learning model was trained and pickled so that can be used in Front-end, also data was stored in Google maps Database.

In recent years, smartphone has been an inalienable part of people’s life. People can obtain all the information they need at their fingertips every day. Tourism has become an important sector that has an impact on the development of the country’s economy as on this date. Tourism has become one of the biggest industries for gaining wealth in the world many countries like UAE, Japan, USA gain lot of wealth from the tourism industry and the most crucial task, to carry this out efficiently is to plan the trip. Conventionally this planning was done by travel agents. For example, a particular travel company would plan the tours of a particular place, showing the prime tourist attractions. For example, a person wants to travel from Mumbai to Delhi to the agent will list down all the important tourist places and accordingly plan his trip like first he should visit Akshardham temple then red fort but does every one like to visit temple. This trip won’t satisfy everyone. If a user is interested in places like museums and aquariums, then they would have to plan such a trip on their own.

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Project Based Learning-II (AY 2021-22)

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Lab Teacher Name:

Prof. Mayur S Chavan

* Title of project: Tourist Place Recommendation Website

1. Introduction
   1. Motivation:

Travelling and roaming around is in the top of bucket list of most of the people in the world. But when it comes in real, people are not able to decide the best spots or places to visit. This was the main inspiration of this project as we wanted to help people to get the list of best places in one tap and help them plan their tour efficiently.

* 1. Objective/ Purpose:

1. Making tourist places easily searchable and accessible.
2. Showing weather conditions to make planning feasible.
3. Recommending spots according to user interest.
4. Website designed such that, anyone can use it.
5. Along with showing the location, we also help guiding the traveller to reach that spot.



* 1. Scope of Project

Scope includes project goals, tasks, cost of project, deadlines.

1. Goals:

* Making tourist places easily searchable and accessible.
* Showing weather conditions to make planning feasible.
* Recommending spots according to user interest.
* Website designed such that, anyone can use it.
* Along with showing the location, we also help guiding the traveller to reach that spot.

1. Tasks:

* Our main task firstly was making of front-end of our website.
* Next important task was making all records and maintain different modules on the website.
* Last task is of making back-end and integrate it with front-end of the website and make it as working.
* Searching for the APIs that we will require for this project.

1. Cost:

* As this is a small-scale project, we tried to use free modules and APIs.
* If we want to build a real application, it will cost more than $600.

1. Deadlines:

* As this is our PBL project so, last date of submission is our final deadline
* But we also make some deadlines during our project execution.
* We make deadline for front-end work and back-end work.
  1. Intended Audience *(who all can use your project)*:

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Description automatically generatedAnyone in the world who wants suggestions for tourist place can use our application.

1. Overall Description
   1. Functional requirements *(Each function in project and its description in short)*
   2. Non-functional requirements *(such as performance safety)*
   3. Operating Environment *(Database, S/W and H/W requirement)*:
2. Database:

Firebase for hosting and Google APIs for maps.

1. Software Requirements:

* VS-Code
* NPM package installed
* Firebase installed
* Bootstrap

1. Hardware Requirements:

* Laptop
* 256 GB SSD + 1 TB HD
* 64-bit processor

1. Diagram

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1. Implementation details along with screenshots
2. Search for places:

User can find result by just entering input as any location. Users have facility to enter location by

1. Accessing current location

Graphical user interface, application, website

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1. Mic search(voice)
2. Graphical user interface, application, website

   Description automatically generatedGraphical user interface, application, website

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Description automatically generatedc) Manually entering:

1. Sharing:

By entering the location, user will get some of location as result that can be filtered by some of parameters. These results have unique URL that can be shared anyone.

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1. Dark mode switching:

Considering users conveniency we have provided website in dark mode as well.

Graphical user interface, application

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1.  Weather forecasting:

For better planning, users can see the current and future weather condition at the place where they are planning to visit.

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1. Images:

To impress user and to give more info about place, user can see the images of places.

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1. Conclusion:

Thus, our website will help people to find their desired tourist spot easily, make their travels comfortable, hassle-free, make accessing information about any tourist spot easy and rapid, provide reliable information and help decision making easier.

1. References:
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