

# Smart City Travel Planner

Submitted in partial fulfillment of the requirements

Of the degree of

**Bachelor of Engineering**

by

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Electronics Engineering

Dwarkadas J. Sanghvi College of Engineering

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# Certificate

This is to certify that the project entitled “**Smart City Travel Planner**” is a bonafide work of **Naval Dhandha (60001150006)**, **Pakshal Shah (60001168010)**, **Amey Sawant (60001168009)** submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of “**Bachelor Of Engineering**” in Electronics Engineering.

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## Project Report Approval for B. E.

This project report entitled '*Smart City Travel Planner*' by *Naval Dhandha, Pakshal Shah, Amey Sawant* is approved for the degree of **Electronics Engineering**.

Examiners

1.-----

2.-----

Date:

Place:

## Declaration

I declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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Date:

## **Abstract**

Traveling is not as simple as choosing a destination and booking your plane ticket and accommodations. Currently, we realize that in general tourists spend a lot of time planning their trips because they need to make the most of every moment. Travel itineraries ensure that you can manage your time. This might affect your plans but with a travel itinerary on hand, you can be more flexible. Thus, time is not wasted. Having a planned makes the travel experience from one point to another much easier. Although the internet make it look easy to go from one place to another, reality is different. You must remember you can't see all the sights, so you must either visit attractions that are near each other, or travel in one direction.

In this context, with this project, we aim to identify the main computing needs to support the improvement of tourist point of promotion for the traveler, by the means of a mobile application proposal. This system is basically used to help a traveler new to the city or anyone who wants to explore a city within a specific time period. The user is supposed to enter his/her interests and preferences while signing up. trip Smart City Traveler as the name indicates, smartly makes its way in analyzing users' interests and preferences and the time period the user is willing to explore a place and designs an itinerary and a route with the best tourist spots around the selected location such that he/she returns to the starting location by the specified end time.

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# **CHAPTER 1**

## **Introduction**





In India, the travel industry is financially significant and quickly developing. Behind each fruitful visit that a man appreciates; is a point by point, achievable and adaptable arrangement that has been made through exhaustive dialogs and custom-made to meet the client's requirements. Be that as it may, is developing such an arrangement a simple undertaking? Is this procedure a snappy one? Is this procedure a shabby one? Now the plan must be dully refined and formed to fit the client; the way toward making such an arrangement may require days or weeks; the movement operator developing such an arrangement would request a weighty expense for this activity. This is a rationally exhausting and cash and tedious procedure. The travel industry is travel for joy or business; likewise the hypothesis and routine with regards to visiting, the matter of pulling in, obliging, and engaging vacationers, and the matter of working tours. Creating a sightseeing plan has turned into an always forceful, complex and tedious procedure including numerous means - to give some examples: picking among a few transportation alternatives, spots to visit and lodgings to remain in, looking for vacation spots at the different goals, making day by day plans considering in breaks for dinners and rest, filtering through feasting decisions and - last, yet not least - computing courses with the least travel length so as to make the most proficient utilization of the constrained time accessible.

What if there was a system that could plan our trip for us? Well, there are already many systems in the market that are able to provide this to users. This proposed system takes the drawbacks of various existing systems and overcomes them in an efficient and easy to use manner. This project involves building up of a system that is useful in planning trips based on users' time constraint which can range from duration of 6 hours to duration of multiple hours. The system will provide the user with a route that covers various tourist spots in accordance with the above-mentioned time constraint.

The itinerary will be generated based on this specified time duration and it will take into consideration the opening and closing times of the various spots. It will also provide a tentative time period which would be sufficient to visit that specific place. Information about the various

places will be provided in abundance to the user- it will include the ratings and reviews of the place. Also, there would be the availability of recommendations of surrounding spots for any specific tourist spot. Unlike other comparative applications which basically fill in as calendaring programs, our framework is exceptional in that it coordinates the data and capacities required for movement arranging completely inside a solitary bit of programming giving such highlights as checking lodging accessibility and figuring ideal courses between client determined areas at different travel goals, and offering recommendations for touring, at the same time making a point to think about the client indicated requirements for specific gathering days, times and areas and individual inclinations for eating, unwinding and rest. Moreover, these administrations are not restricted to a specific city but rather are offered for any city around the globe for which such data exists inside the databases of the administrations incorporated into the mashup. The Smart Travel Planner is an electronic clever framework for encouraging the movement arranging process, which is actualized as a mashup of a few travel-related services.

Keen City Travel Planner is a task for the movement and the travel industry that conveys the highlights most mentioned by autonomous the travel industry administrators, goal promoting gatherings, the travel industry affiliations and travel experts and devoted in a hurry voyagers. This is an online task created utilizing Php and MySQL as the center programming dialects.

Dissimilar to other comparative frameworks which basically fill in as calendaring programs, our framework is remarkable in that it consolidates the data and capacities required for movement arranging completely inside a solitary bit of programming and giving advices to touring, at the same time making a point to mull over the client determined requirements for specific gathering days, times and areas and individual inclinations for eating, unwinding and excitement purposes. The motivation behind this venture is to give the total data about a very much guided agenda visit.

The following project of the Travel Management System venture is to make the framework completely useful progressively and incorporating the on area itinerary administrations to the

clients. The Travel Management System will be taken off in stages. As of now, work that we have finished on the schedule age segment of the applications, which encourages handling of solicitations and repayments and gives key reconciliation focuses travel sellers, for example, eateries and lodgings.



## **Chapter 2**

### **Review Of Literature**



In the paper, Smart City Tour Guide, the writer, have stated that By utilizing cell phones to acquire data is snappy and furthermore progressively reasonable alternate route to improve individuals' lives. In this paper we propose the product advancement engineering dependent on web administrations. This system presents the three-layer engineering of web advancement. In view of the three layer engineering, the android city visit direct framework is created and can understand to question data for inn, landscape and eatery, etc. Mix of good telephone and web access is the pattern of longer term information advancement and programming applications. Cell phones are the most usually utilized specialized apparatuses.

Ying Xu, Tao Hu and Ying Li, the writers of the paper, "Smart traveler guide", suggested that another Improved PRR calculation (IPRR) in light of the PRR by considering diverse customized necessities so as to prescribe amazing voyaging touring plans for clients. The way arranging of picturesque the travel industry is a generally new research field. Some ongoing examination on the movement course arranging has been done. The improvement of web invigorates the forthcoming ascent of different Online Tourism Agencies (OTA) to post their administration data on the web. One testing issue of OTA is the means by which to suggest suitable travel guides for clients with various utilities and proposals. This will enable you to create thoughts for your visit, give you a thought of what is as of now in the commercial center, give you nitty gritty data on terms and conditions and give conceivable plans to pamphlet structure and substance.

The paper presented the structure and execution of the Android based city visit control framework. The framework depended on Web Service innovation and adjusts three-layer engineering. The framework gave data question of the lodging, view, eatery, traffic, etc. The framework was a blend of advanced mobile phone and Internet benefits and will help visit and life for client. Situating support (GPS), features the client's present position on the guide, What's more, look offices to find contingent upon the present area of client, Trade of visitor's audits/recommendations with different vacationers, Rapidly look through the area of client without squandering of time,

particularly with those that share comparative traveler's advantage consideration of crisis contacts in the city map (ATM, Restaurant, Police Station and so forth.).

Based on this paper, we decided to implement the similar functionalities of the work, only to be implemented entirely on the web server, creating an online application which would be accessible to the web users.

In the paper, 'Smart Travel Guide', published in May,2012, the writers proposed a design of versatile traveler control framework for Android Mobile Phones that had the capacity to give the travel industry data to the portable clients advantageously. The principle target of this paper was when clients are progressing, it had the capacity to give rich and brief data convenient and make them access to the administration at whenever and anyplace. The proposed framework depends on solicitation and reaction, so there is no consistent obtaining of the bandwidth. The framework exploits light-weighted mashup innovation that joined more than one information sources to make esteem included administrations, while conquering the impediments of cell phones .

In the paper 'Smart City Traveler', published in April 2018, the writers addressed the issue that by and large ,vacationers invest a great deal of energy arranging their outings since they have to make the vast majority of each moment. However, a large portion of late visitor and voyagers believe that they need to know the neighborhood enchant particular to the land just as a celebrated touring spot. So as to accomplish this, they proposed a framework that can consequently demonstrate a touring course and plan in set time. In this specific situation, the application planned to distinguish the primary figuring needs to help the improvement of vacationer purpose of advancement for the voyager, by the methods for a versatile application proposition.

The system made the use of Google Maps API to get all the places around the selected location with all their information. Then, these locations were sorted based on ratings, distance, and various other constrains to place it before the users. We decided to make the map functionality as an additional feature for our application to add the real time functionality to our project.



# **Chapter 3**

## **System Model/ Architecture**



### **3.1 Softwares and languages used in the project :**

#### **3.1.1 PHP**

PHP code in a project can request databases, make pictures, read and create records, banter with remote servers – the potential results is endless. The yield from PHP code is united with the HTML in the substance and the result sent to the customer's web program, as such it can never tell the customer whether the web-server utilizes PHP or not, in light of the fact that the entire program sees is HTML. PHP is by and by formally known as "PHP: Hypertext Preprocessor". It is a server-side scripting programming language normally written in a HTML setting. Not in any way like a typical parametric HTML page, a PHP content isn't sent really to a client by the server; rather, it is passed by the PHP combined or module, which is server-side actualized.

MySQL is a splendid, productive and a free SQL database, and PHP gives a broad game plan of capacities with regards to working with it. The blend of Apache, MySQL and PHP is everything aside from tolerating. PHP's aides for Apache and MySQL further forms its one of a kind code. Apache is by and by the most-used web-server , and PHP can be accomodated as an Apache module.

While in the mid-1990s it was okay to amass goals, even commonly colossal districts, with numerous individual hard-coded HTML pages, the present site administrators are profiting however much as could be expected from the power of databases to make do with their task even more efficiently and to redo their areas as shown by individual customer tendencies. That doesn't infer that PHP can't work in various conditions or with various instruments. For sure, PHP supports an expansive summary of databases and web-servers.

Reasons for using PHP:

PHP can be continued running on all the real working systems with by and large servers. There are some unavoidable uncommon inspirations to work with PHP. As an open source thing, PHP is particularly charmed by a gifted age gathering and a submitted client arrange.

a)Its overall efficient working

Since PHP is arranged around a singular technique model our ability to share data structures or affiliation pool resources is left to neighborhood code libraries. While we can actualize an application that serves countless multi day on a server, when we really look at the execution of the language it is undesirable.

b) It's available for, We can adjust it

Indeed the truth is that it's an open source undertaking and they release fixes consistently.

Nowadays C, C++ and Perl have all "passed on" now and can essentially stay dynamic at their current utilities.

## PHP Architecture :

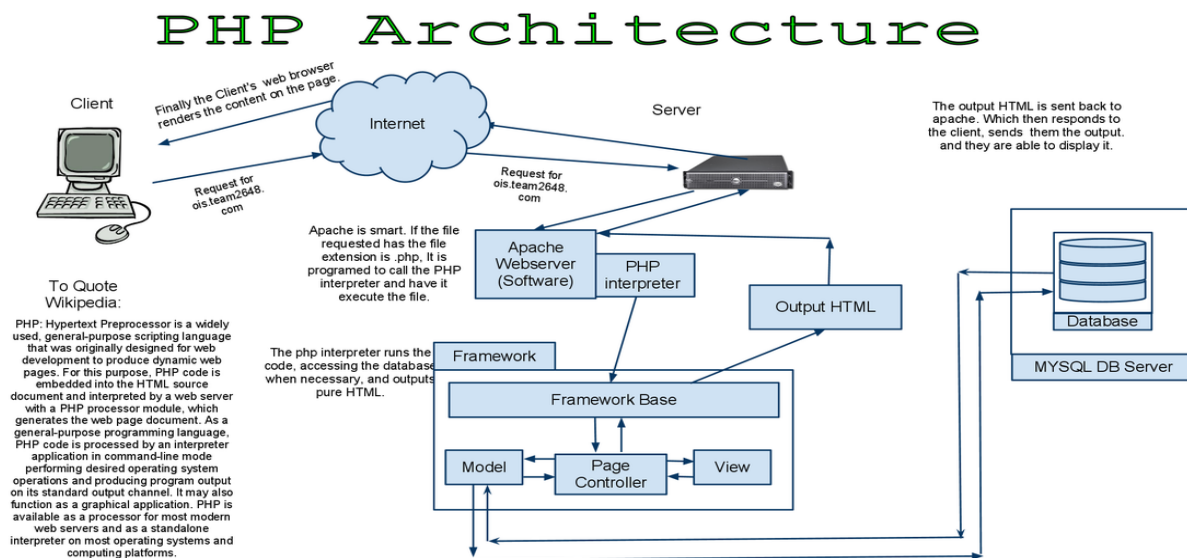


Fig 3.1: PHP Architecture

The front and back closures might be conveyed among at least one frameworks. The front end is a connection between the client and the back end of the process.

Framework traffic experiences the front-end hardware before entering the framework. In framework handling, front end can suggest any hardware that propels or guarantees mastermind traffic. It is called application front view hardware since it is put on the framework's outward-standing up to front end or breaking point.

The back end commonly upgrades to convey code that runs faster. The front-end/back-end refinement can separate the parser territory that oversees source code and the back end that makes code and advances. In compilers, the front end demonstrates a PC programming source code into a focal point of the street show, and the back end works with the old depiction to give a code in a PC yield language.

Nowadays, a front-view improvement alludes to the piece of the web clients interface with. Previously, web advancement comprised of individuals who worked with Photoshop and the individuals who could code HTML and CSS. Presently, designers need a handle of projects like Photoshop and have the capacity to code in HTML and CSS, yet additionally JavaScript or jQuery, which is an ordered library of JavaScript.

With everything taken into account for most of this to work, in any case, there must be something to support the front-see; this is the spot the backend turns out to be potentially the most crucial factor. Most of all that you see on any site is an amalgamation of HTML, CSS, and JavaScript, which are as one are shaped by the code. For instance, on the off chance that you're using Google Chrome or Firefox, the program is what unravels most of the code in a manner for you to see and with which to team up, for instance, printed styles, tones, drop-down menus, sliders, shapes, etc.

### **Concept :**

The MySQL will change the direct of any PHP MySQL spreading (mysqli, PDO\_MYSQL, mysql) requested to use the mysqlnd library without changing the expansions API. This makes the module great with each and every PHP MySQL application. Since existing APIs are not changed, it is for all intents and purposes clear to use. The request backend module is realized as a PHP

development. It is written in C and works in the motor of PHP. Between the startup of the PHP middle person, it gets enrolled as a mysqlnd module to supersede picked mysqlnd C methodologies. On the off chance that it's not all that much inconvenience see the mysqlnd module API portrait for a discourse of the advantages of the module plan and a connection with middle person based urses of action.

### **3.1.2 HTML**

HTML was created in 1991 by Tim Berners-Lee at CERN in Switzerland. It was made to empower analysts to show and share their examination papers. HTML or Hyper Text Markup Language is the standard checked programming language used to make sites and online journals.

HTML shows the structure of a webpage productively nearby signs for the introduction welcome page, making it a markup language rather than a programming language. The explanation behind a web program is to scrutinize HTML records and make them into detectable or distinguishable website pages. The program does not demonstrate the HTML names, anyway utilizes the names to change over the substance of the page.

The essential tag in a couple is the start tag, and the besides tag is the last tag (they are in like manner called opening marks and closing names). HTML marks most conventionally occurs in a couple like `<h1>` and `</h1>`, but a couple of names address destroy segments as are not combined, for example `<img>`. HTML is composed as HTML segments including names encased in point enclosure(like `<html>`).

HTML components structure the structure squares everything being equal. HTML enables pictures and items to be implanted and can be utilized to make intuitive structures. It gives a way to make organized archives by indicating basic semantics for content, for example, headings, sections, records, connections, cites and different things. It can insert contents written in dialects, for example, Java Script which influence the conduct of HTML pages.

### **3.1.3 HTML 5**

HTML 5 at present exists in two institutionalized structures: HTML 5.2 Recommendation by the World Wide Web Consortium (W3C, an expansive alliance of associations), proposed essentially for Web content designers; and HTML Living Standard by WHATWG (a little consortium of four program merchants), planned basically for program engineers, however it additionally exists in a compressed Web designer version.

### **3.1.4 CSS**

CSS language gives propelling ideas to the CSS innovation as per the current industry standards. CSS is the booming language mainly used by the designers . The real purposes of CSS are given underneath:

- a) CSS depicts Cascading Style Sheet.
- b) CSS is mainly used to inculcate HTML labels.
- c) CSS is the most widely used language on the web.
- d) HTML, CSS and JavaScript is effectively used for web planning.

CSS is an establishment detail of the web and basically all pages use CSS layouts to delineate their presentation. Changing with the unit of concerns setup model and best work on, falling layouts give a central zone in which information about what distinctive content styles, closer view tints, establishment shades, stress and emphasis should be associated with various HTML parts inside a site page. Falling layouts can in like manner control how unique bits of a page, for instance, the header, footer, body, article substance, regions and asides, are spread out on the page. This is

helpful when content must be spread out in a significantly special way depending on whether it is being seen on a work zone, tablet or a cell phone..While every now and again used to style site pages and UIs written in HTML and XHTML, the language can be associated with any kind of XML record, including plain XML, SVG and XUL.

This reattachment can improve content receptiveness, give more noteworthy exactness and control in the specific of presentation characteristics, enable different pages to share settlements, and kill complexity and excess in the essential substance, (for instance, by considering table less site engineering). CSS is organized fundamentally to enable the division of record content from file presentation, including elements, for instance, the organization, shades, and literary styles.

### **3.1.5 JavaScript**

A model based scripting language along with dynamic composing and has top of the line capacities, is what defines Java. C effectively uses its components. JavaScript simplifies numerous names and naming entities from Java,still Java and JavaScript differs in almost all the aspects. The key structure standards inside JavaScript are taken from the Self and Scheme programming dialects. It is a multi-worldview language, supporting article arranged, basic, and utilitarian programming styles.

Java is mostly used outside of website pages—for instance, in PDF archives, webpage explicit programs, and work area gadgets—is additionally huge. Fresher and quicker JavaScript VMs and stages based upon them (eminently Node.js) have additionally expanded the fame of JavaScript for server-side web applications. It is commonly used in server-side system programming, amusement involvement and the making of work area and various good running applications.

avaScript (JS) is a regularly blasting programming language. It is for the most part utilized in different shades of the web world part of web programs, whose utility license client side segments to connect with the customer, control the program, pass on non successfully, and change the file



content that is appeared. On the client side, JavaScript was generally realized as a deciphered language anyway at the last possible second array is by and by performed by later projects

### **3.1.6 BootStrap**

BootStrap contains CSS-and (on the other hand) JavaScript-based arrangement positions for typography, shapes, gets, course and other interface parts. Bootstrap is a free and open-source CSS structure composed at responsive, convenient first front-end web improvement.

In limit, the basic factor is whether the designers in control find those choices similarly as they would like. Once added to an endeavor, Bootstrap gives basic style definitions to all HTML segments. The last item is a uniform appearance for article, tables and structure parts transversely over web programs. In addition, designers can misuse CSS classes portrayed in Bootstrap to moreover alter the nearness of their substance. For example, Bootstrap has provisioned for light-and diminish shaded tables, page headings, logically obvious draw proclamations, and substance with a component. Bootstrap is a web structure that bases on reworking the improvement of illuminating webpage pages (as opposed to web applications). The fundamental job of adding it to a web adventure is to apply Bootstrap's choices of shading, measure, literary style and organization to that adventure.

They similarly grow the helpfulness of some present interface parts, including for example an auto-complete limit with regards to information fields. Bootstrap furthermore goes with a couple JavaScript parts as jQuery modules. They give additional UI segments, for instance, talk boxes, tooltips, and carousels. Each Bootstrap fragment contains a HTML structure, CSS confirmations, and every so often running with JavaScript code.

### **3.2 About the backend**

The majority of the past attempts to help the front-end of the site. The back-end has three sections to it: server, application, and database. To all the more likely clarify how the majority of this functions, we should utilize the case of a client attempting to buy a plane ticket utilizing a site. Everything that the client sees on the site page is the front-end, as we have clarified previously, however once that client enters the majority of his or her data, sssuch as their name, charging address, goal, and so forth, the web application stores the data in a database that was made already on the server in which the site is calling for data.

The web application makes, erases, changes, renames, and so on things in the database. For instance, when a client buys a ticket, that makes a thing in the database, however when they have an adjustment in their request or they wish to drop, the thing in the database is changed.

.To put it plainly, when a client needs to purchase a ticket, the backend activity is the web application speaking with the server to roll out an improvement in a database put away on said server. Advancements like PHP, Ruby, Python, and others are the ones backend software engineers use to make this correspondence work easily, enabling the client to buy his or her ticket effortlessly.

### **3.2.1 XAMPP**

XAMPP is an open source software created by Apache companions. XAMPP programming bundle contains Apache circulations for Apache server, MariaDB, PHP, and Perl. Also, it is fundamentally a neighborhood have or a nearby server. This neighborhood server chips away at your very own work area or PC phone. By utilizing this product to test the customers or your site before transferring it to the remote web server. This XAMPP server programming gives you the reasonable condition for testing MYSQL, PHP, Apache and Perl extends on the neighborhood PC.

The full type of XAMPP is X represents Cross-stage, (A)n Apache server, (M) MariaDB, (P) PHP and (P) Perl. The Cross-stage more often than not implies that it can keep running on any PC with any working framework. XAMPP contains tools like :

## Apache

Apache server is an open source free programming which is at first created by a gathering of programming designers and now it is kept up by Apache programming establishment. Apache HTTP is a remote server(computer) on the off chance that somebody demand records, pictures or archives utilizing their program they will serve those documents to customers utilizing HTTP servers. Essentially facilitating organizations utilize this application to make a VPS server and shared facilitating for their customers.

## MYSQL

MYSQL is an open source programming. It is really a social database the board system(RDBMS). This SQL represents Structured Query Language. It is the most prevalent and best RDBMS utilized for building up an assortment of electronic programming applications. With the assistance of MYSQL, it is conceivable to compose the data, oversee, recover and update the information at whatever point you wish to do.

## PHP

The full type of PHP is Hypertext Preprocessor. It is a server-side scripting language that causes you to make dynamic sites. This language is principally used to manufacture online programming applications. It is an open source programming and works fine with MYSQL. What really happens is, the PHP code will be executed on the server and at the program side its HTML code will be shown.

Perl

Perl is normally said to be the broadly useful programming language. This Perl language is translated and profoundly unique. In reality, this language is utilized for web advancement, GUI improvement, framework organization, and so on. Perl is fit for working with HTML, XML and other markup dialects.

In the most recent variant of XAMPP, there are extra instruments, for example, Mail server Mercury, OpenSSL, phpMyAdmin, and so on. With the above instruments, you can make an undeniable work area server.

We used the MySql tool of the XAMPP for designing our application.

### **3.2.2 Visual Code Studio**

Visual Studio Code combines the straightforwardness of a source code director with astounding creator tooling, as IntelliSense code completion and examining. Regardless of anything else, it is an administrator that gets away from your bearing. The brilliantly frictionless modify create explore cycle suggests less time tinkering with your condition, and extra time executing on your contemplations.

At its heart, Visual Studio Code incorporates an uncommonly speedy source code director, perfect for regular use. With assistance for a few vernaculars, VS Code energizes you be instantly beneficial with sentence structure highlighting, area organizing, auto-space, box-assurance, bits, and that is just a hint of something larger. Characteristic reassure exchange ways, straightforward customization and system contributed comfort simple course mappings let you investigate your code easily.

For certified coding, you'll every now and again benefit by contraptions with more code understanding than just squares of substance. Visual Studio Code fuses worked in help for

IntelliSense code realization, rich semantic code cognizance and course, and code refactoring. Additionally, when the coding gets serious, the outrageous get researching. Investigating is routinely the one component that engineers miss most in a less greasy coding learning, so we made it go. Visual Studio Code consolidates an instinctive debugger, so you can wander through source code, survey factors, see call stacks, and execute headings in the help.

Versus Code also joins with create and scripting gadgets to perform typical errands making normal work forms snappier. Versus Code has support for Git so you can work with source control without leaving the editor including seeing pending changes diffs.

Compositionally, Visual Studio Code merges the best of web, nearby, and language-express developments. Using Electron, VS Code solidifies web headways, for instance, JavaScript and Node.js with the speed and flexibility of nearby applications. Versus Code uses a progressively current, snappier type of the proportionate present day quality HTML-based publication chief that has powered the "Monaco" cloud director, Internet Explorer's F12 Tools, and distinctive endeavors. In addition, VS Code uses a devices organization structure that engages it to arrange with countless progressions that control Visual Studio, including Roslyn for .NET, TypeScript, the Visual Studio investigating engine, and anything is possible from that point.

Visual Studio Code fuses an open extensibility model that allows fashioners to gather and use developments, and sumptuously modify their change build investigate contribution.



## **Chapter 4**

# **Proposed System Implementation**





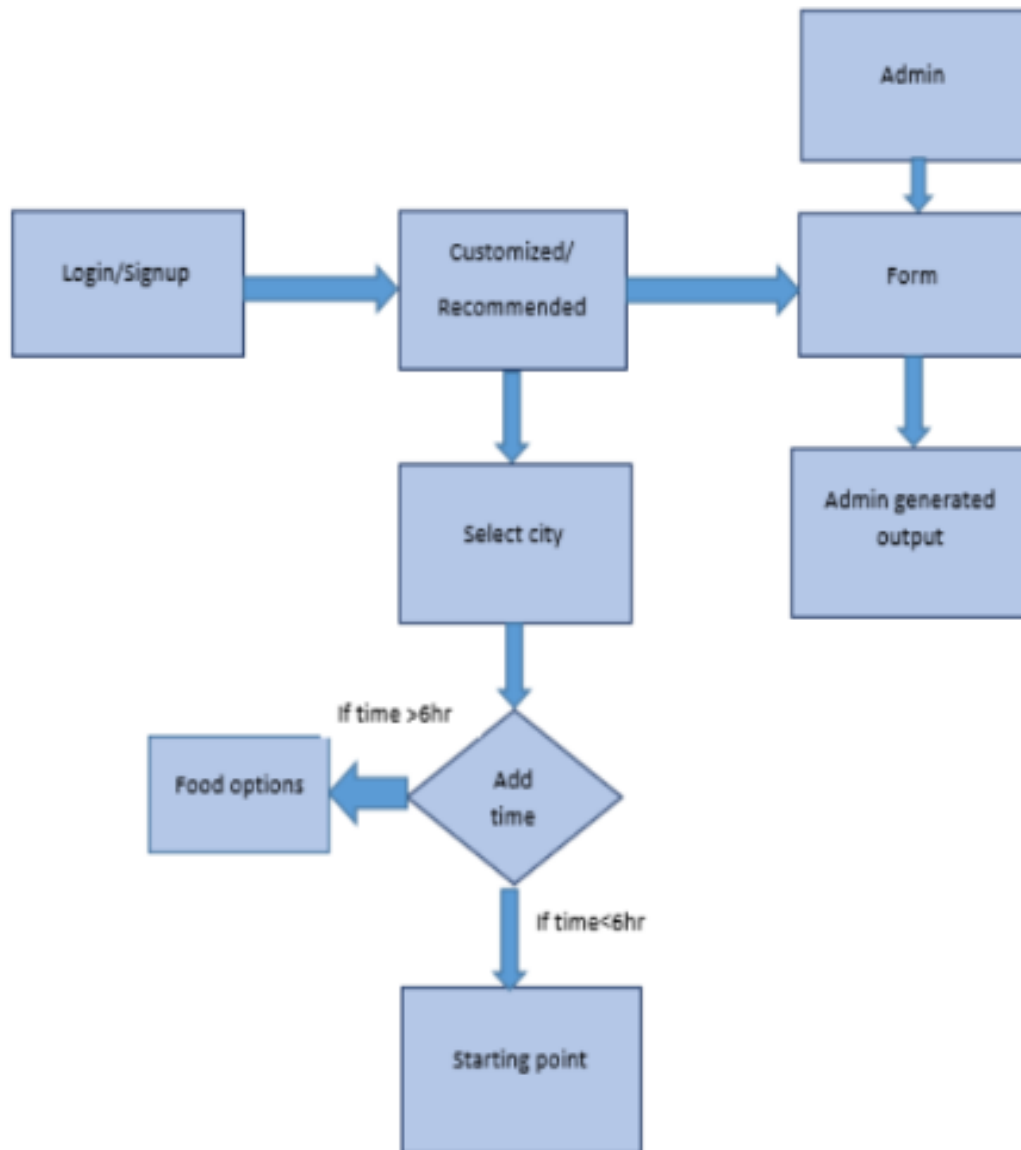


Fig. 4.1: System Flowchart

The above mention figure is the basic functionality block diagram of our project/simulation. The very first thing that the user needs to do is to login onto our website by entering his/her credentials. If the user is using our website for the very first time, he can click on the sign up button in order to create his login. The values enter in the user name section gets directly stored onto our database whereas the values which the user enters into the password section gets stored in an encrypted format onto our database. The database is created using the MySQL software.

Now, further by clicking on the itinerary option available on the top end tool bar of the website, the itinerary maker page pops up. On the page, the website offers two main options, whether he wishes to choose an itinerary which is customized or the one which the website has to recommend.

If the user selects the customized option, another page will pop up displaying various sub options to opt. Firstly, the user needs to enter the number of days that he wishes to spend in a particular city and secondly, he needs to choose the city which he wishes to visit. Now, clicking on the submit button, the website will subsequently perform an analysis at the back end and display the results on the screen. The results being a list of itineraries of the city that the user has entered and which can be fulfilled in the specified time period.

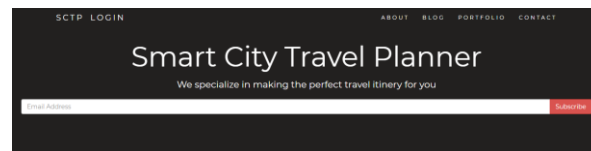
If the user opts for the recommended option, the website will display a form, wherein he can fill in various details such as the cost, time, preferences and the time period, and this entered information will be directly guided to our website onto which a recommended personal plan would be designed.

The main advantage of having an easy to understand website is, it offers expanded brand understanding by changing over your site guests as customers, presents the potential customers of your image, viable introduction and route for guest, offers effective and proper usefulness, decreases your other hand special costs, for example, paid print, TV and radio promotion printed leaflets, and so forth. A website directly reflects the business brand as well as the offerings that it has to offer, which would eventually result into profits.

## **4.1 Front End Design:**

Front-end arrangement was made by using HTML segments close by CSS, Javascript and Bootstrap 4. So the fundamental advances verified to make front end arrangement were:

1. It can be adroit to draw an organization draft of the page arrangement before making a site page.
2. HTML is the standard increment language for making locales and CSS is the language that portrays the style of a HTML report. We joined HTML and CSS to make a basic site page of the arrangement that suits our application.
3. Add bootstrap 4 abilities to make the page responsive. A responsive page infers that the front end plan of the page acclimates to the structure as indicated by the objectives of the screen.
4. Link pages: this joins interfacing diverse gets or images of a page to its very own unique contrastingly organized HTML page. Here the HTML limit of `<a href="#" >(ICON NAME)</a>` is used. This makes site a multipage site.
5. Here a predefined Header and Footer record is made so it might be rehashed into multipage with the ultimate objective that the coding part diminishes.
6. And thus with different arrangement and functional organizations of CSS and Javascript, we can make our favored front end UI. Some screen catches of our frontend plans are:



### WHAT DO WE DO

We plan your perfect day out.

A planned itinerary based on your choices and preferences to make your day beautiful.



## **4.2 Website Portfolio Display:**

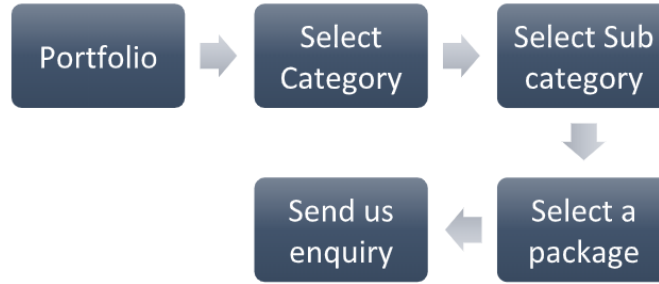


Fig. 4.1: flowchart for Portfolio display

The reason for an online portfolio is to give an imminent customer, similar to a man visiting your webpage, a feeling of your identity, what you can do and whether you are the individual they should contract to execute their arrangement

Regardless of whether you are an independent specialist organization, an ongoing school graduate with a start up, your portfolio will give the most dominant and exhaustive point of view on you. A portfolio site is a basic apparatus to getting more business and building your expert image

Clicking on the portfolio option on our website's display screen will take the user to a page displaying the catagories that the user can choose from and subsequently select the plan as per his/her taste or likings. The various categories include adventure, religious, entertainment, historical, family, national parks, etc.

By clicking on an individual category, the website will display a series of plans amongs which the user can opt for any of his choice. Now, the user will be given various sub categories, for example, if an individual chooses his category as religious, he will be shown sub categories such as tours from Europe, Italy, Spain, etc. Now if he clicks on Italy, he will be shown various detailed plans, including their costs and descriptions. If the user further wishes to enquire more, he can click on the enquire button, from where a fill in page will pop up where he can mention his doubts and queries and then by clicking on the submit button, the enquiries that the user have entered, will directly get added/stored to our database.

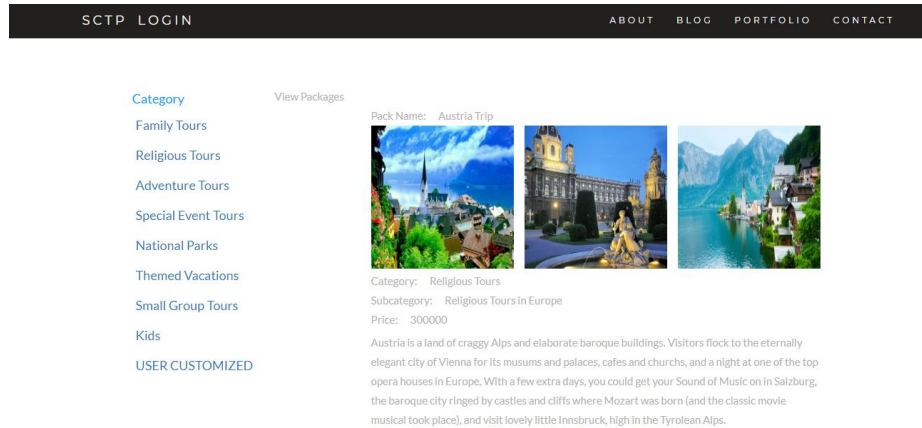


Fig. 4.1 : Website portfolio Display

### 4.3 Various Itinerary making functionalities:

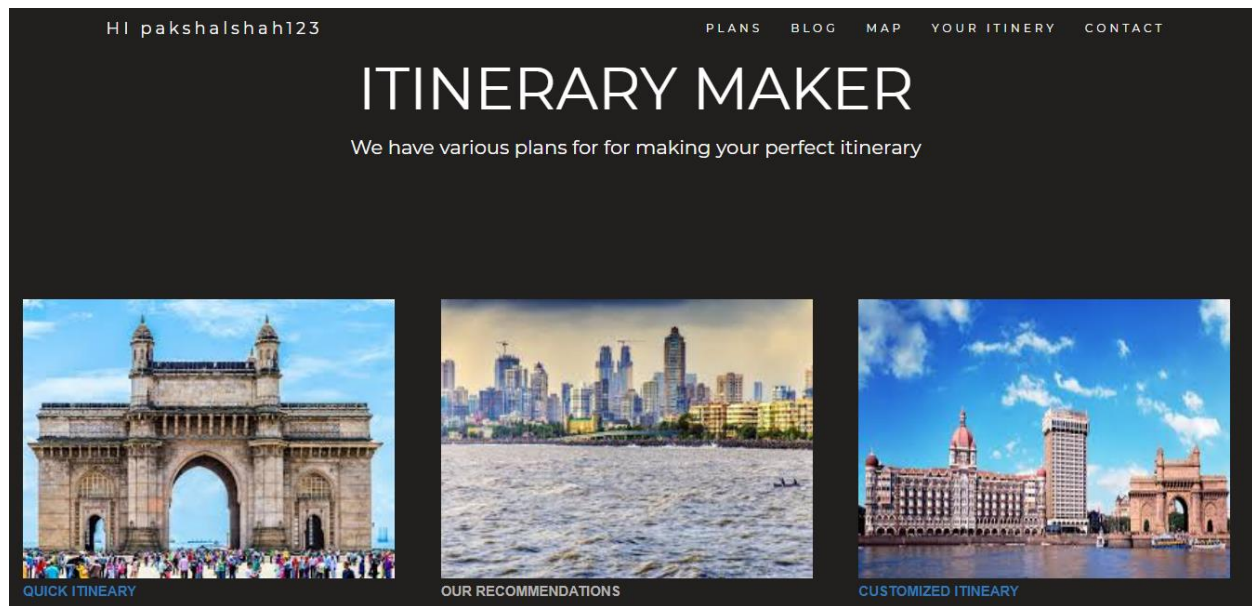


Fig. 4.3: Website functionalities

On the off chance that you've invested any measure of energy on the web, you realize that the quantity of accessible webpage highlights are unending. Adding an ever increasing number of functionalities to your site straightforwardly adds to your targets (in all likelihood expanding supporters, deals, or guest commitment).

A few features could both befuddle new guests and devour critical assets (both regarding creation and support). You'll need to keep away from components that don't add to the accomplishment of

your site (productivity), paying little respect to how famous or front line they appear. A few capacities, while intriguing and fun, may add little profit to accomplishing your objectives.

We designed our website which is capable of providing three itinerary making functionalities. The first one is a quick itinerary option, clicking onto which, the page will display two options wherein the user needs to enter the number of days that he wishes to spend in a particular city, and the second option where he selects the city from the drop bix where he intends to visit. Clicking onto the ok button, the website will display various itineraries that the user can complete within the specified time period, respectively.

The second option is the website recommendations. If the user clicks on the recommendations, the website will display the inbuilt plans which have been pre designed and added keeping in mind the past customer reviews and experiences.

The third and the last option is the customized itinerary, wherein the user will be made to enter the identification number of the package that he intends to visit or enquire, and will also be able to mention any special requirement, the size of the group that will be visiting the destination, etc.

#### **4.4 Quick Itinerary Generator:**

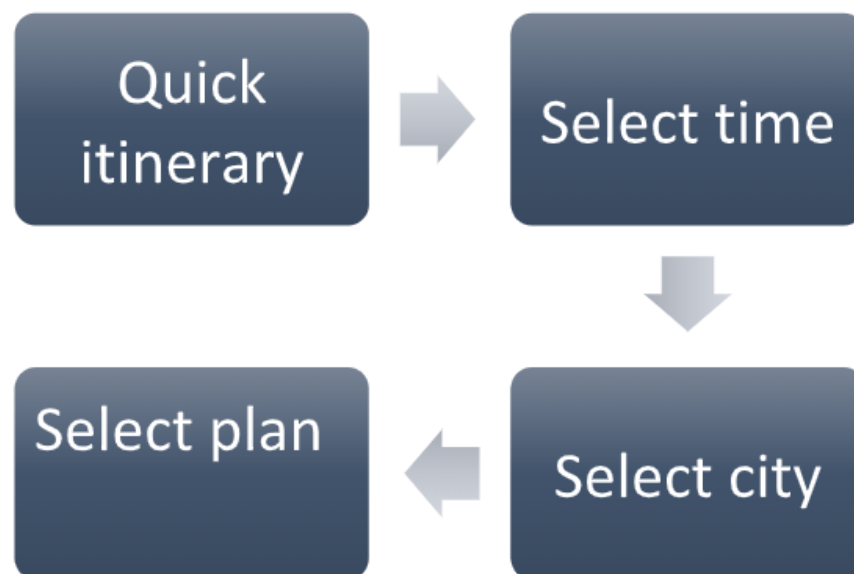


Fig. 4.4: flowchart for quick itinerary generator

This itinerary maker is specifically designed to target the users who wish to visit and explore the city sites in a day! For example, if a person is visiting the city of Bombay for a day, after which, he will be leaving for Kerala, then the website will generate an itinerary covering the places that can be covered in a day.

Initially, the person will enter the number of hours that e intends to spend into the city exploring the places, and then he needs to choose the city that he wishes to visit. Now clicking onto the OK button, the website will immediately display various plans/one day itinerary which could be accomplished by the intended user. The user can now select a plan according to his likings and preferences. In order to generate this itinerary, we created an intense, detailed database featuring various tourist destinations of the city in a proper sophisticated sorted manner.

#### **4.5 The website recommended plan:**

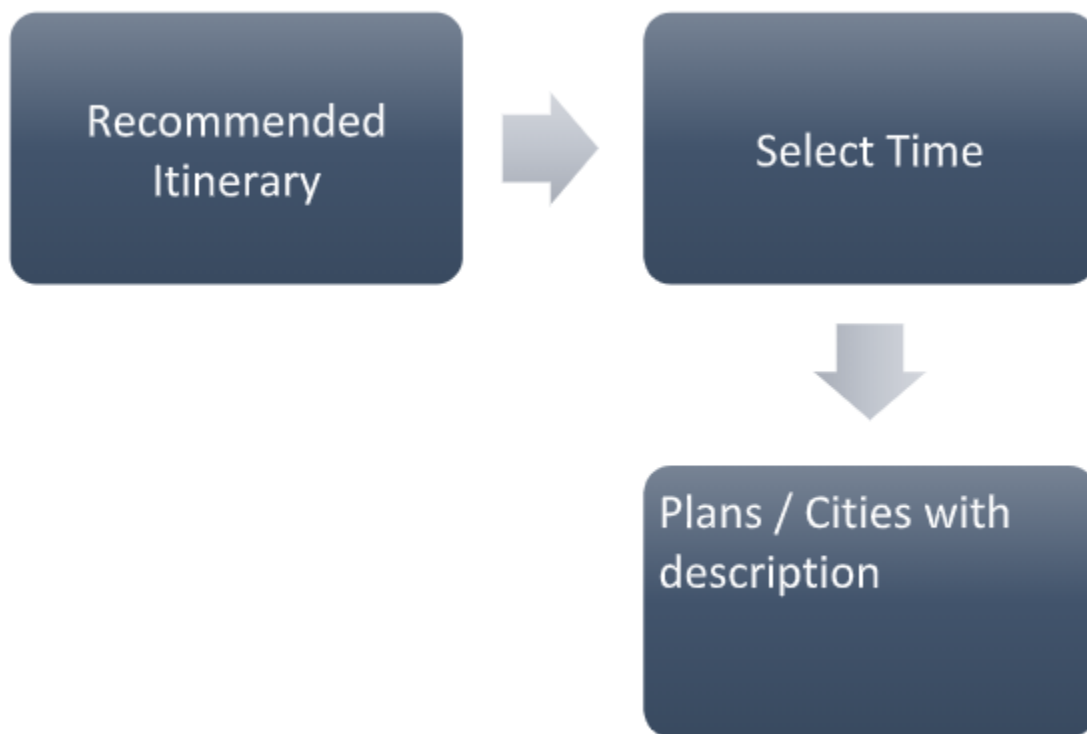


Fig. 4.5: Flowchart for the website recommended plan

Travelling isn't as straightforward as picking a goal and booking your plane ticket and lodging. So for what reason are there individuals who makes voyaging resemble a bit of cake? They can fly in and out with no significant hitches. These voyagers have one mystery; they all have an arranged travel agenda.

Having an arranged itinerary expand your time. Travel agendas guarantee that you can deal with your time. A movement agenda must incorporate your movement time to certain various attractions with a space for unexpected conditions like climate conditions and traffic. This may influence your arrangements yet with a movement agenda close by, you can be progressively adaptable. Hence, time isn't squandered.

So I order to maximize the customer travel experience who wish to visit and explore a city for certain number of days, our website will recommend certain predefined plans which have been exclusively designed based upon the past customer experiences and reviews. The website would efficiently display the list of restaurants from the location that the person would be visiting, also.

#### **4.6 The customized itinerary:**

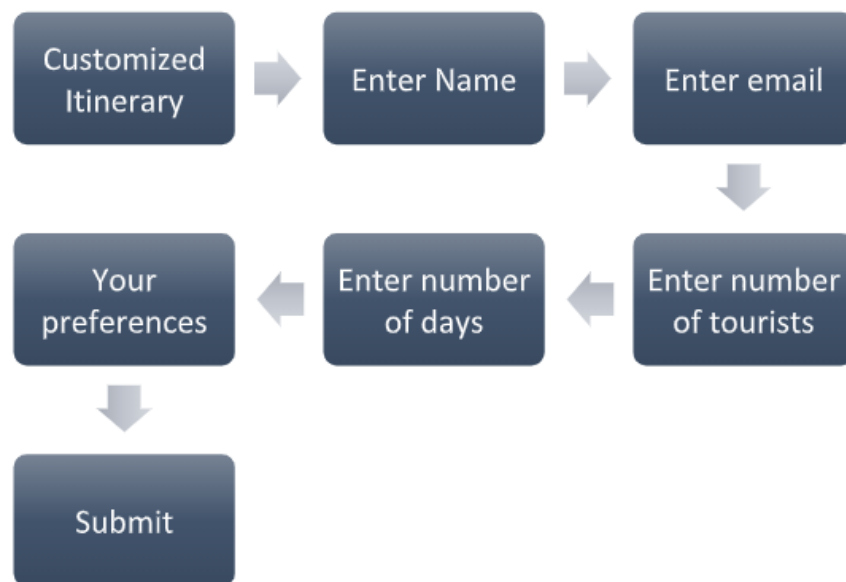


Fig. 4.6: flowchart for the customized itinerary



By using the customized itinerary option, the user can get a travel plan designed at his very own pace and requirements. An individual can explore destinations like South Asia, Latin America and past in his/her own particular manner, keeping the emphasis on themselves and their understandings, seeing galleries, landmarks and any other self-chosen visit can be accordingly added to the itinerary plan .

Clicking onto the third option. The user will be guided to the customized itinerary page. Here, the website will display a form wherein the user can enter his requirements, likings, utilities, the number of people in the group that he would be travelling with, etc.

Now, this entered information will directly go onto our database in a sorted fashion which could be later worked upon manually in order to create a customized itinerary.

View Enquiry									
Package Name	Package Id	Name	Gender	Mobile No.	Email	No. of Days	No. of Children	no. of Adults	Status Field
Main attraction in Thailand	4	Pakshal	Male	09930775321	pakshal.m.shah@gmail.com	2	2	4	Confirm
Holidays in Italy	3	Pakshal Milan Shah	Male	09930775321	pakshal.m.shah@gmail.com	11	4	10	Confirm
Best parks in India	25	Pakshal Milan Shah	Male	09930775321	pakshal.m.shah@gmail.com	22	33	55	Pending
Christmas Adventure in Lapaland	1	Pakshal Milan Shah	Male	09930775321	pakshal.m.shah@gmail.com	5	8	20	Pending

Fig. 4.7: The admin collected database



# **Chapter 5**

## **Conclusion and results**



The population's consumption structure is evolving rapidly. the number of people going out for trips, in search for entertainment, leisure and fun have increased by almost 30% in the last 10 years. Tourism is the ever booming industry on a global level producing almost around 11% of the gross domestic product(GDP) of the country, and has employed over 7000 million of the world population globally. There is a lot of information available online serving the tourist information and various other utilities. But as observed, the information displayed is very much in an unsorted and a common standardized fashion, catering to a general sect of the people around the world and not specific.

Therefore, we intend to explore how to build a mobile tourist guide system based on mashup technology to solve this problem Since travelling is one of the important aspect today, it is very necessary that proper planning need to be done beforehand in terms of time management. Most people without using the latest technology waste a lot of time just planning trips. So, an application like Smart City Traveler really helps tourists to utilize their precious time to the fullest and also enjoy their trip at the same time.

In this project, we designed and implemented a project called Smart Travel planner with which mobile users can get tourism guidance information they need anytime and anywhere. By Smart Travel Guide, users can get an attraction's detailed information, including text, picture and video. In particular, Smart Travel Guide can provide users with location-based information. User can search the nearby attractions after he or enters the time they intend to spend at a particular destination.



# **Chapter 6**

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