

SUPERIOR UNIVERSITY LAHORE



SUPERIOR UNIVERSITY

Faculty of Computer Science & IT

Final Year Project PROJECT REPORT

[Travel Guide]

Project ID: FYP-F19-012

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Project Report

[Travel Guide]

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APPROVAL

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Name: _____

Date: _____ Signature: _____

PROJECT MANAGER

Comments: _____

Date: _____ Signature: _____

HEAD OF THE DEPARTMENT

Comments: _____

Date: _____ Signature: _____

Dedication

This work is dedicated to my beloved parents and my respected teachers for their love, endless support and inspiration. That is all with the prayers of them.

Acknowledgements

I am and my team member would like to express our deep sense of gratitude and convey thanks to everyone who helped and supported during the completion of this project. I acknowledge my department for provided that the courses and a great atmosphere that helped complete different chapters of this paper. I specially thank my supervisor, Muhammad Arif, for supporting me and my concepts and for allowing me to do somewhat the way I liked, and for helping me grow the skills needed to design this website as part of my master's study. Last but not least, we are like to thank our family supporters for their constant support towards my learning and for their fair love for me. We would also like to thank our friends, without whom this development would have been difficult.

Executive Summary

The tourism industry has witnessed a tremendous progress from the last few years. Tourists from our country or across the world visit northern areas. They have to face a lot of difficulties due to the in availability of guidance. There are a lot of websites in the market which work on the road guidance, traveling businesses but there is no such a website which has complete information about tourist places with the map. Due to this, tourists have to face a lot of difficulties including visiting new places, a place to live there or many others.

We are introducing such a tourist site as named “Travel Guide”. It will help tourists to enjoy the places of Pakistan and to solve such an issues which is mentioned above without wasting their time.

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Chapter 1

Introduction

Chapter 1: Introduction

Travel Guide is a service for tourists and common people to reach their destination without sticking in any trouble. This helps them to save their precious time by providing its services. By using this website, tourists will be able to save their money too, as they will not have to carry or hire any guider person with them. It will specially help tourists to discover new places of Pakistan, booked a hotel at visiting point, to find best food in the town.

1.1. Background

As a traveler we get to much difficulties in finding our roots. Even sometimes we never know the nearby places which should the visit, and get wasted a lot of our time. All we have the option in our hand is only a map.

1.2. Motivations and Challenges

Our motivations to provide a platform for people where they can easily get information about visiting places in Pakistan, Hotels at visiting point and find the best food in the town. Majority of people want comfort in their life. We feel very glad and comfortable if a person gets comfort from our website. Our customers want to relief from services problem so we trying to fulfill their requirements.

1.3. Goals and Objectives

- Attractive User interface
- User friendly interface
- Provide different services on same platform

- Minimize cost
- User satisfaction

1.4. Literature Review/Existing Solutions

There are lots of websites available which are only working on the business or some of them are only the pieces of documents about the history or the present of the country like Google maps (only helps for paths), Travel-culture (only a piece of document). But, now a day's most of people show their interest in tourism and they like to go new tour places in their holidays. So we realize that there should be a site which helps the people to go at tour places and make their moments memorable. The comparison table between an existing and our website is given below.

Competitor Name	Google maps	Tavel-culture	Travel Guide
Platforms	IOS, Android, Windows	website	Website
Free/paid	Free	free	Free
Company background	Google		Local
Target Audience	All type of audience	Tourists	Tourists
Main Features	Road Guidance	Places to visit with documentation	Tour places with documentation and map direction
			Hotels booking

1.5. Gap Analysis

The performance of our Website is according to market demands and in future we included some more features in our website and make performance better and better. Quality assurance make our project important and increase its performance better.

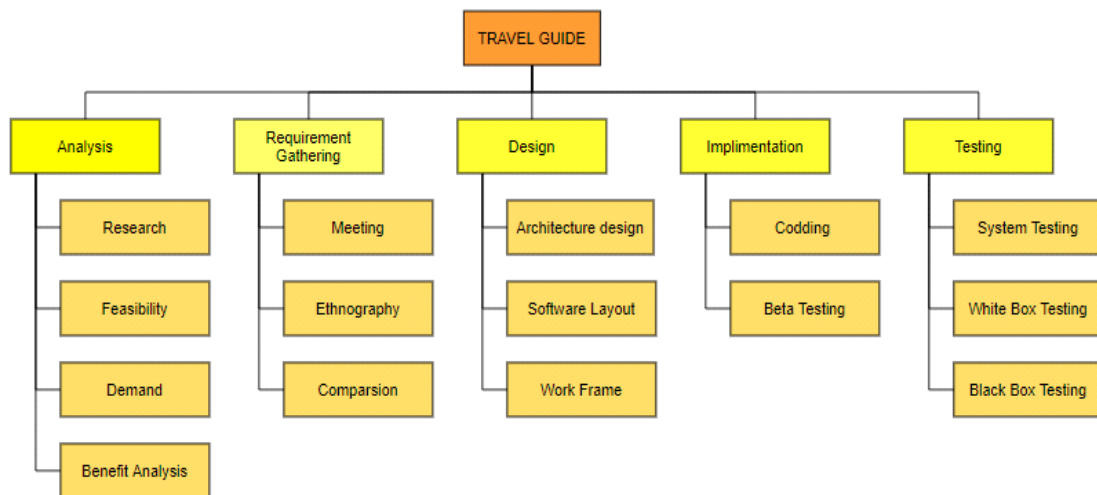
1.6. Proposed Solution

Kipping in the mind of all the problems mentioned above we planned to make a website for the tourists. In which we will add all the points to be visit like we have beautiful northern side. We will add a single city in our project right now which is “Murree”. We will add the hotels for that tourists can booked them before they reached there, we will add the restaurants for the best food options and shopping areas etc. And we will add hospitals, pharmacy too. People just have to search for the city and there will be options provided to them of the points which they can visit, eat, shop etc. Basically we can say it will be a “1 click to go” site. This website will give the tourists a good feel of understanding and will give the knowledge on a single platform, which will save their time and keep away from the tension of asking the people on their way to reach their destination or in finding the things out.

1.7. Project Plan

Travel guide is a guiding website service which is spatially design for tourists. We will implement the plan with coding and through server will fetch the pin direction of places mentioned in our website. In the last we will have proper testing of the website.

1.7.1. Work Breakdown Structure

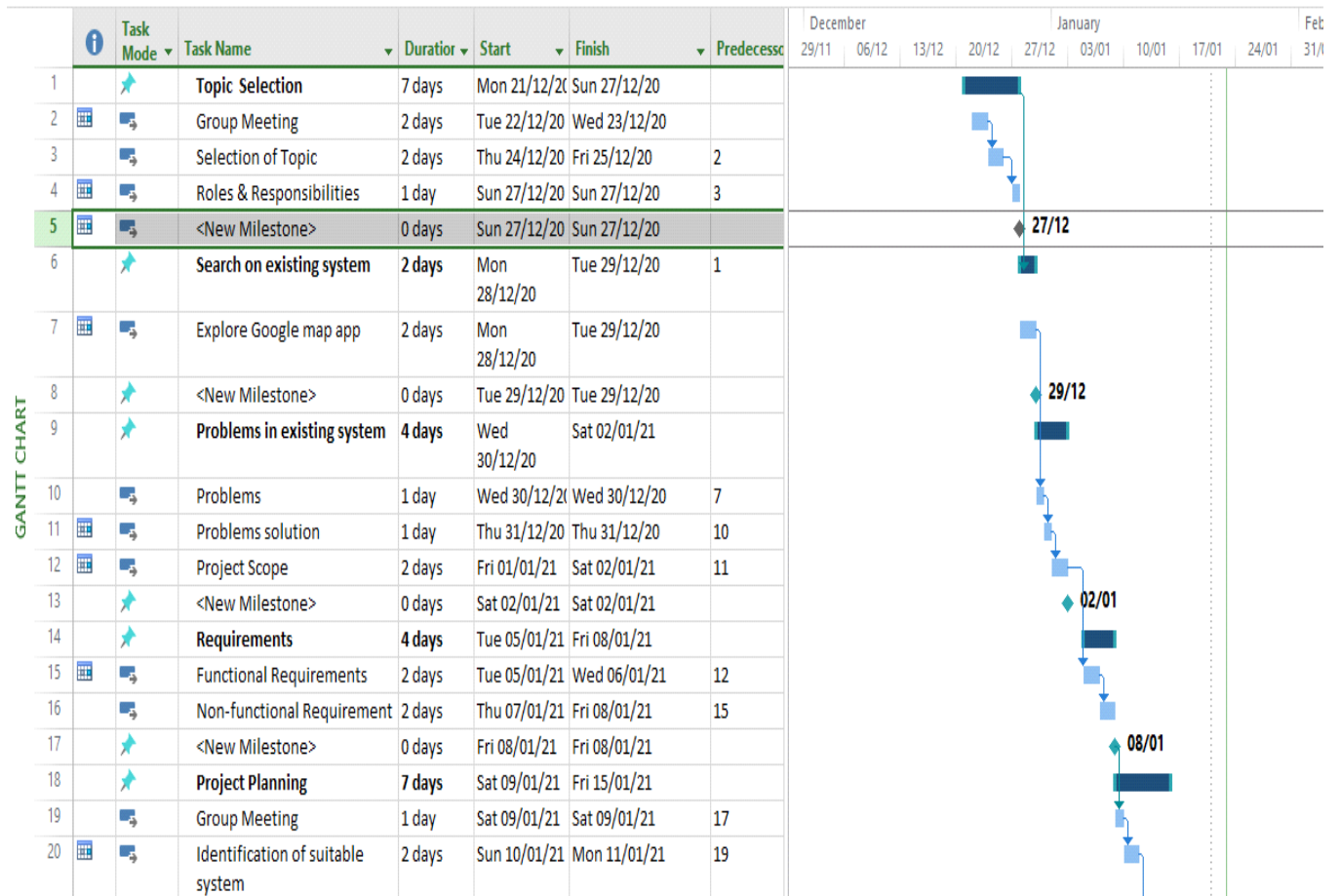


1.7.2. Roles & Responsibility Matrix

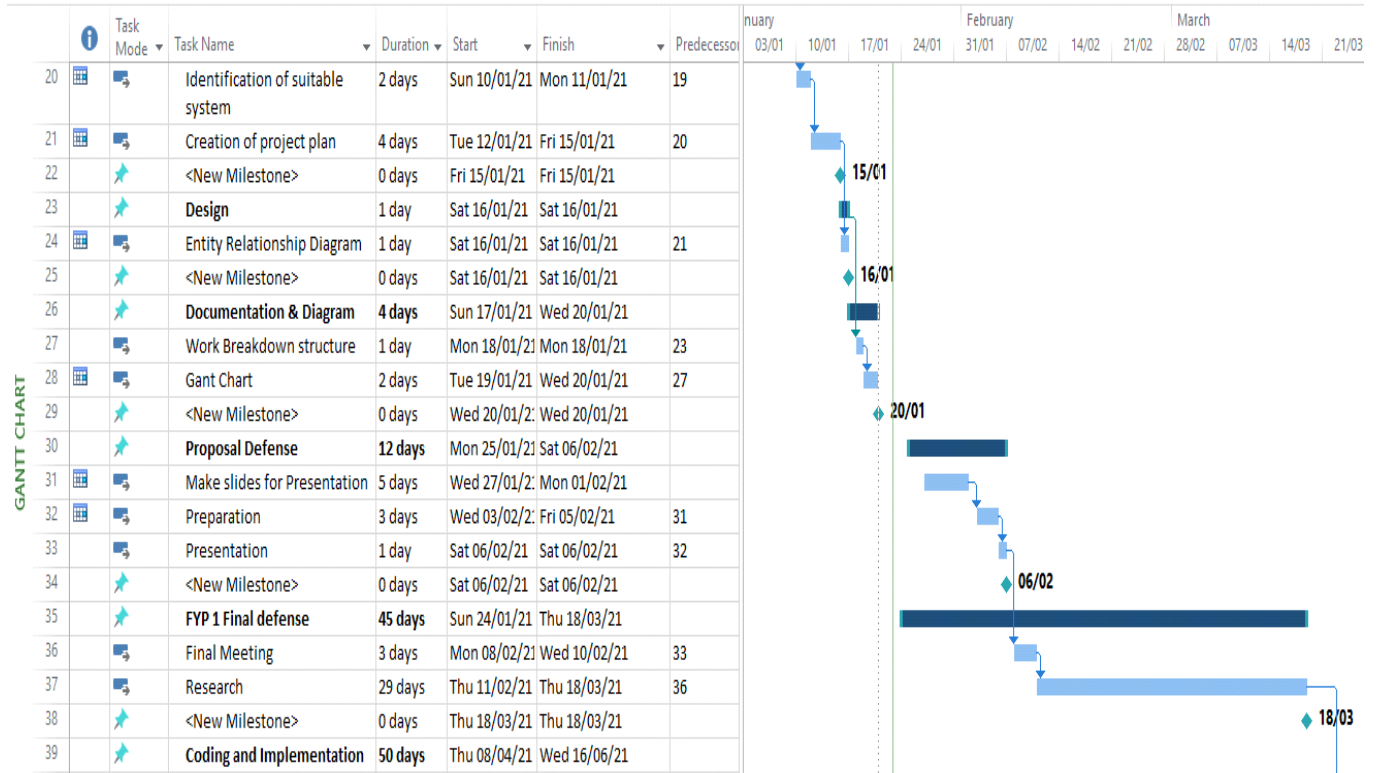
The purpose of roles & responsibility matrix is to identify who will do what.

WBS #	WBS Deliverable	Activity #	Activity to Complete the Deliverable	Duration (# of Days)	Responsible Team Member(s) & Role(s)
1	Topic selection	1	Search	5 days	Kinza, Danyal, Saddam
2	Search on existing systems	2	Research on google app	1 day	Kinza, Danyal, Saddam
3	Problems in existing systems	3	Draw a comparison table	1 day	Kinza, Danyal, Saddam
4	Requirements	4	Architectural diagram	2 days	Kinza, Danyal, Saddam
5	Project planning	5	Meeting	4 days	Kinza, Danyal, Saddam
6	Design	6	Entity Relationship Diagram	1 day	Kinza, Danyal, Saddam
7	Documentation and Diagrams	7	WBS and Gantt chart	3 day	Kinza, Danyal, Saddam
8	Proposal defence	8	Working	12 days	Kinza, Danyal, Saddam
9	FYP 1 Final defence	9	Meeting and research	30 days	Kinza, Danyal, Saddam
10	Coding and implementation	10	Working	50 days	Kinza, Danyal, Saddam
11	Testing	11	Working	10 days	Kinza, Danyal, Saddam
12	Progress report	12	Overview	20	Kinza, Danyal, Saddam
13	Maintenance	13	Editing	60 days	Kinza, Saddam

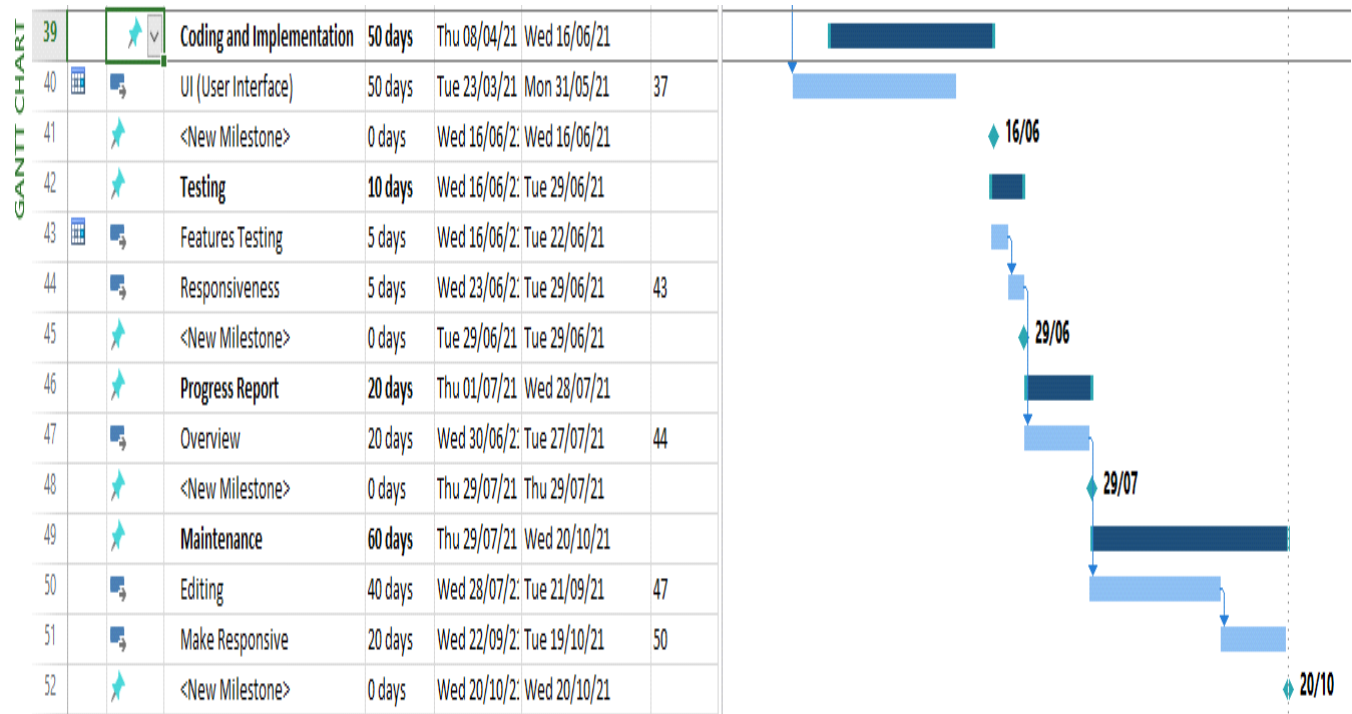
1.7.3. Gantt Chart



Gant chart part 2



Gant chart part 3



1.8. Report Outline

- Introduction
- Data Analysis
- Project Scope
- Goals and Objectives
- Existing Solution
- Gap Analysis
- Project Plan

Chapter 2

Software Requirement Specifications

Chapter 2: Software Requirement Specifications

2.1. Introduction

2.1.1. Purpose

In this section we described the software requirements for a web application further referred to as Travel Guide. Travel Guide is being developed as part of the Tour project. As part of this application we will developing a mobile supporting infrastructure, further referred to as the intelligence service.

2.1.2. Document Conventions

Our document consists of following important conventions

- UML (unified modeling language)
- Data base
- ERD (Entity relation diagram)
- AD (Architecture diagram)
- Sequence Diagramed
- Activity diagram
- State Diagrams

2.1.3. Intended Audience and Reading Suggestions

We are making this document by keeping in mind different type of readers. This document will be useful for different audience in various ways. Readers interested in a brief overview of all product should focus on the rest part 1 (introduction) as well as part 2 of the document (overall description) which provide a brief overview of each aspect of the project as whole.

Reader who wish to explore the feature of “Travel Guide” in more details should read part 3 system feature and so on (External Interface Requirement). Reader interested in the non-technical accepts of the project should read part 5 which cover performance, safety and security.

2.1.4. Product Scope

The Travel Guide website is easy to use as self service, which enables people can find tourists places in Pakistan, booked hotel in advance at visiting point according to their budget and can view restaurants nearby for good food. There is no such facility is available for tourists like this website. On this website user can find all these features in one platform without any difficulty. This website will meet the modern day requirements. It will not only help the tourists but also promote tourism in Pakistan.

2.2. Overall Description

2.2.1. Product Perspective

This website is being developed for devices which have the functionalities of GPU, text input in simple words for android and PC. The product works effectively and efficiently. Currently, there is no such a platform, which combines all these functionalities the way like Travel Guide.

Website will be main user interface where user can operate all provided functionality. To use product, user doesn't require to register through web interface.

- **For Android phone and PC**
- **Minimized cost**

2.2.2. Product Functions

Every feature on the Travel Guide features list is designed to make sure the user tour comfortable. Travel Guide would have the following functions.

- Display all tour places
- Display Hotels at visiting points
- Provide facility to booked hotel
- Restaurants nearby

2.2.3. User Classes and Characteristics

Class	Characteristics
System	It will be the system admin administrator class. Who will maintain overall Website?
Login	There is no such class because login is not required.
User	It will include the people who will request the services on the Travel Guide Website.

2.2.4. Operating Environment

The operating system needed for the system to run effectively window (8 /7) or MAC OS. Travel Guide is our Website which will be available for Operating system Android, IOS.

The processor should be at least Pentium 3 or above. We will use SQL database in our project. PHP will be use in this project. The interface to run website or application that web browser is internet explorer or Google chrome used for run time environment.

2.2.5. Design and Implementation Constraints

The primary design constraints are web application. Also designed and responsive for mobile handsets. There is a true need of our website in the modern world. So we have to complete it in minimum time say 4-5 months.

2.2.6. User Documentation

We will give the complete documentation of the project along with website. The website will be design simple to use as possible. But in starting we about to know everyone that how the website run.

2.2.7. Assumptions and Dependencies

It is assuming that the website will work correctly in every device which has the maximum RAM and internal storage. Travel Guide is only accessible through the internet presence; it is assuming that the end user has a connection to the internet.

2.3. External Interface Requirements

2.3.1. User Interfaces

The website much more efficient, easy to understand and use if it is clear and well designed. Each part of the user interface intends to be as user friendly as possible. The font and button as used will be intended to be very fast and easy to load web pages. The pages will be kept light in space so as that it won't take a long time for page to load general user interface is the most important part of any website.

2.3.2. Hardware Interfaces

- Processor: Pentium 4 or Higher.
- RAM 8GB or Higher

2.3.3. Software Interfaces

Development tool: Visual Studio 2019

Languages: Html, CSS, Bootstrap, java, ASP.Net

2.3.4. Communications Interfaces

The communication between the different parts of the system is important since they depend on each other.

2.4. System Features

This section contains some functional requirements of Travel Guide Website. The first one is that user request for search tour places, second is searching for hotels at visiting point and the third one is about searching of restaurants for food.

2.4.1. System Feature 1

The user must have connected to the internet for getting services and valid searches through the website otherwise the user meets with the error.

2.4.1.1. Functional Requirements

- User interface
- Search places
- View places
- Search hotels
- View hotels nearby
- Search for restaurants

2.5. Other Nonfunctional Requirements

These are the characteristics the system must possess but are not present in the design. These requirements have to be testable just like the functional requirements.

Error Handling:

Checking that the system always has something to function and always pop up error messages in case of component failure. In that case, the error messages appear when something goes wrong so to avoid availability problems.

Availability:

The system is in working state all the time and is accessible to all those having internet access.

Maintainability:

The website is designed so that it is easily maintained. Also it allows incorporating new requirements in any module of system. Backups for database are available.

User Friendliness:

Our site is developed according to user's expectations in order to ensure user friendliness. Use of buttons for requests and message boxes to display messages makes the interface simple and easy to understand.

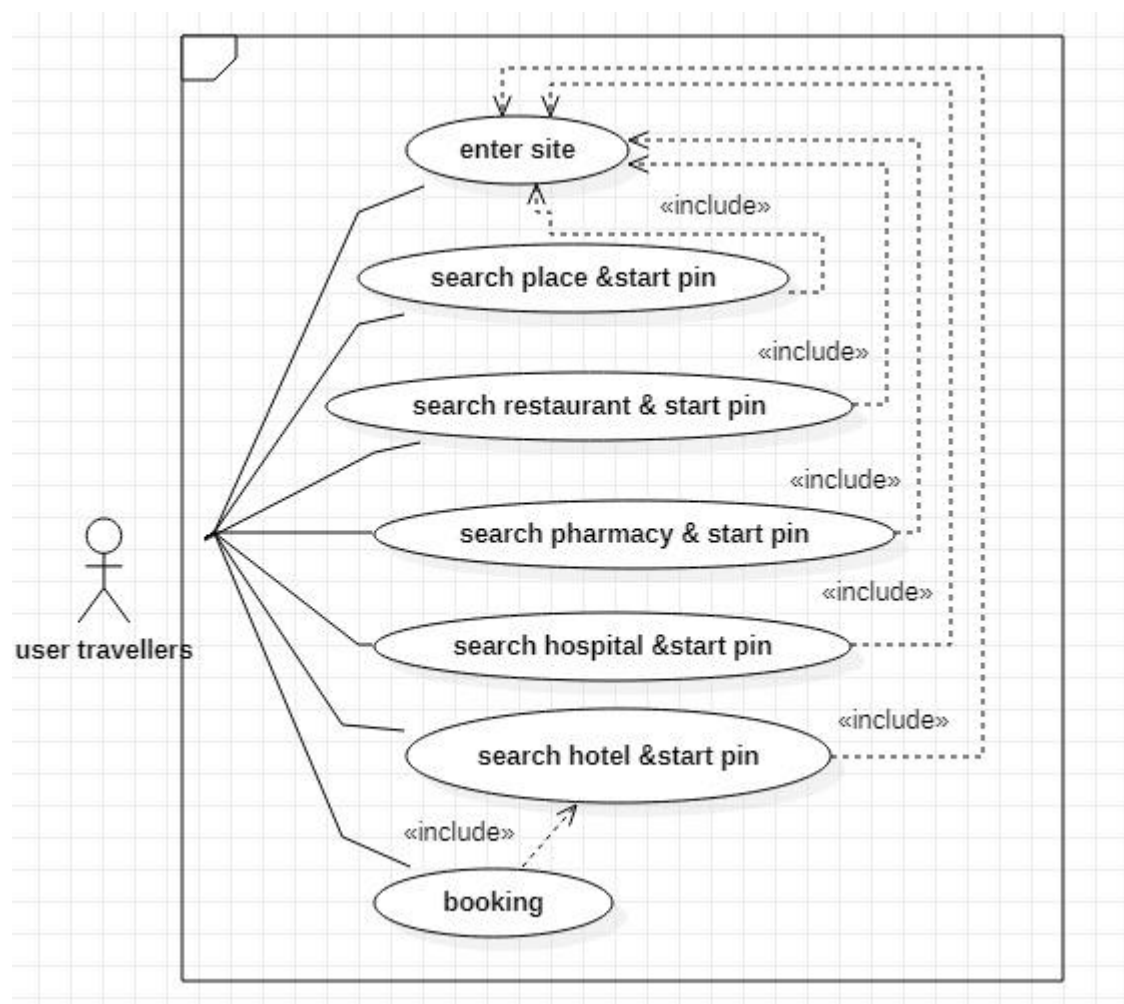
Chapter 3

Use Case Analysis

Chapter 3: System Analysis

Use case analysis is a techniques used to identify the requirement of the system and the information used to both define processes used. The overall use case in the development or redesign of a software system or program.

3.1. Use Case Model



3.2. Use Case Descriptions

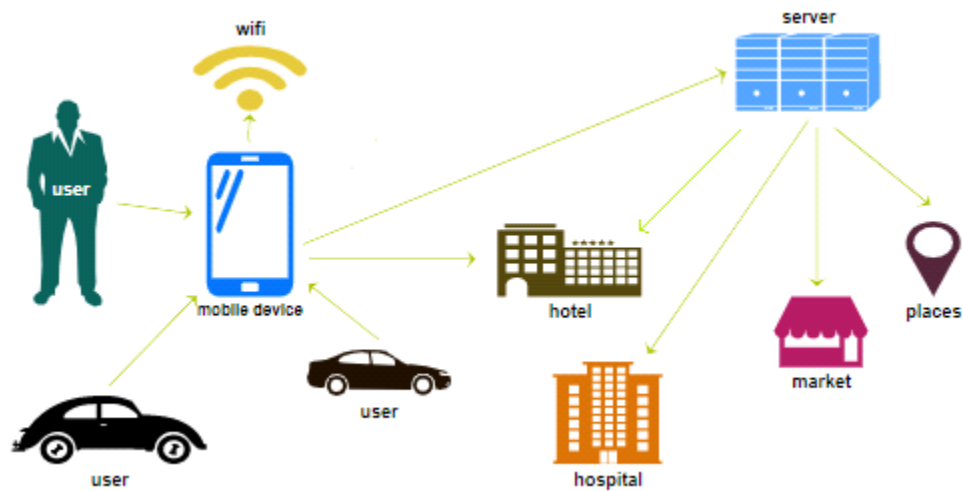
Use case name:	user
Brief description:	User will select the option (e.g market,place,hotel,restaurant etc) and search the destination (like if he will select restaurant then the user will be provided by the different options of near by resturent) with map direction or user can also made booking of hotel.
Actors:	User-traveler
Stakeholder and interests:	User want the suggestions with map directions
Per-condition:	There is not any precondition required
Success scenario:	User will get the bwest near by option with map direction
Failure scenario:	User will be usable to get options according to the demand
Post-condition:	Nothing

Chapter 4

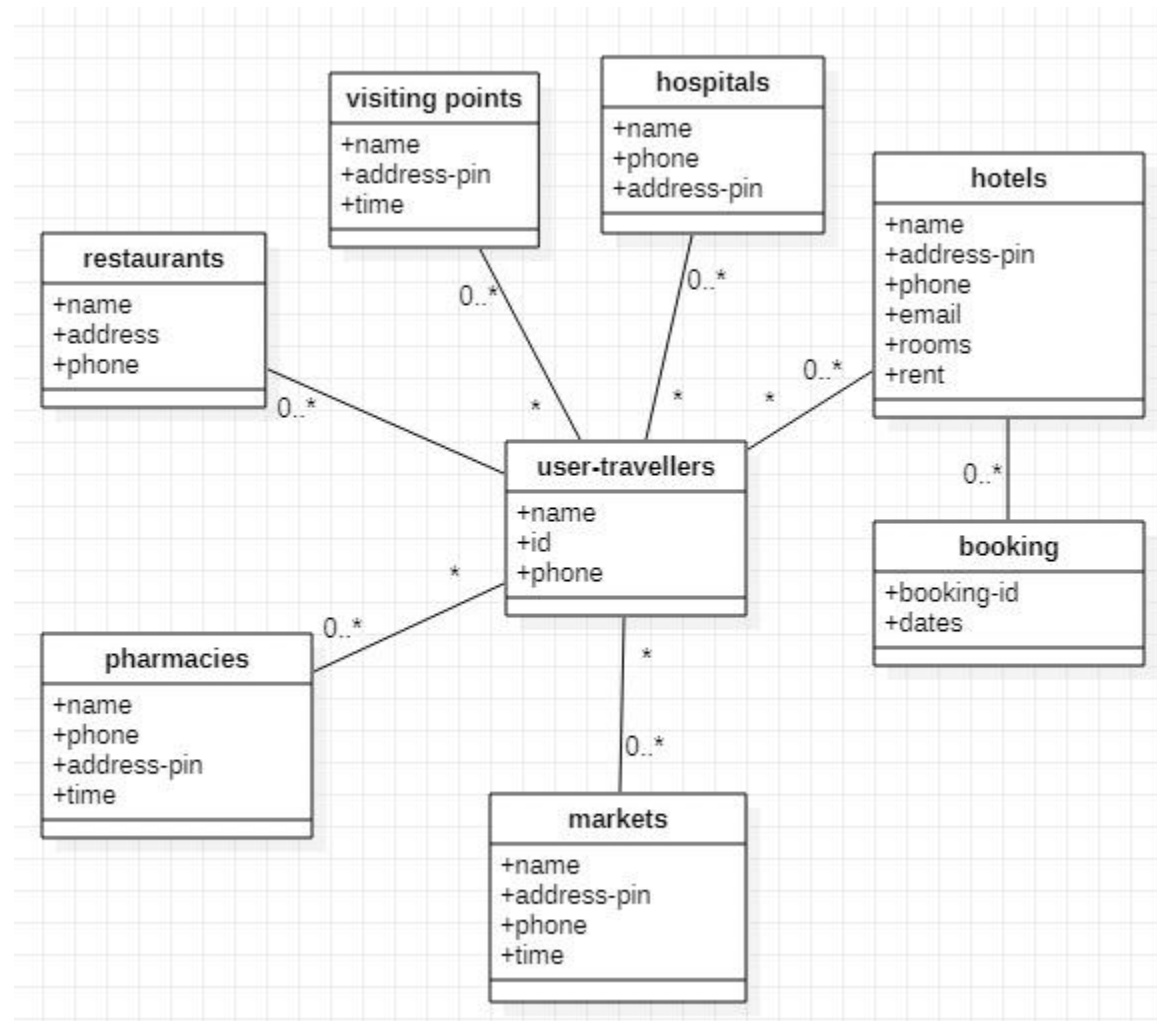
System Design

Chapter 4:

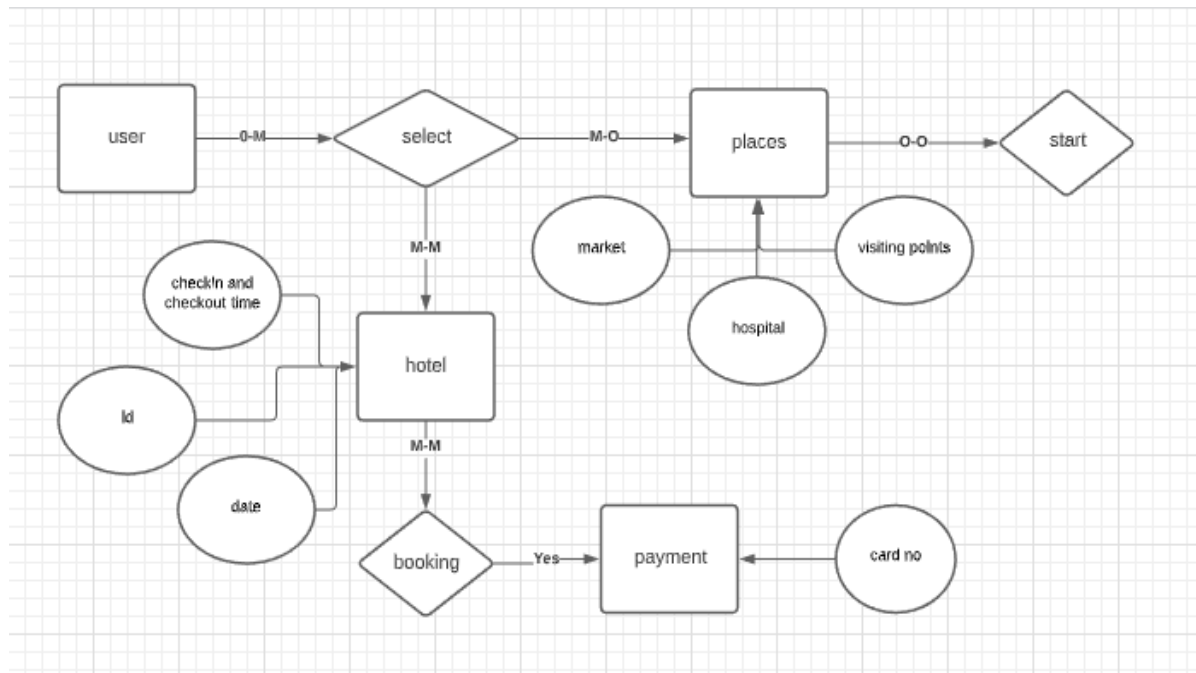
4.1. Architecture Diagram



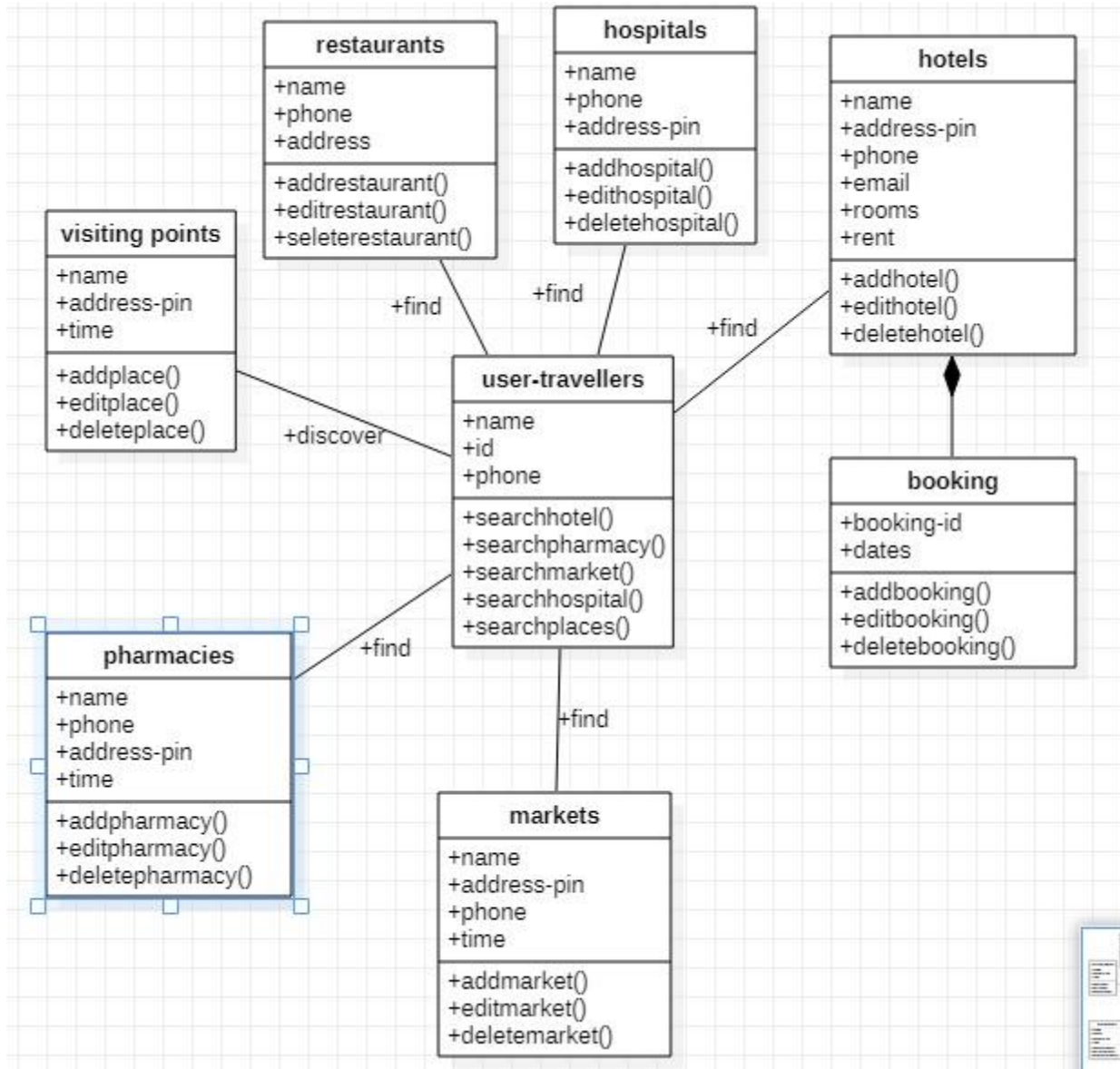
4.2. Domain Model



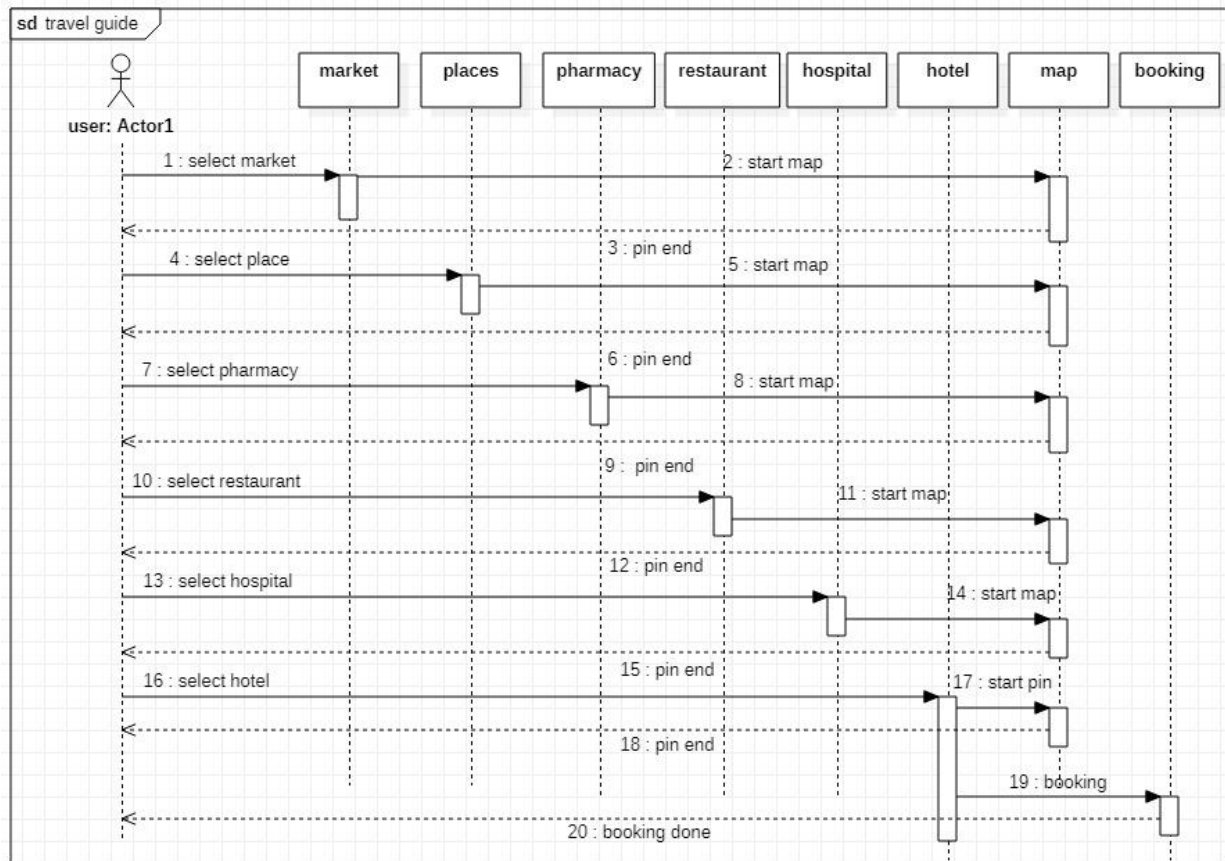
4.3. Entity Relationship Diagram with data dictionary



4.4. Class Diagram



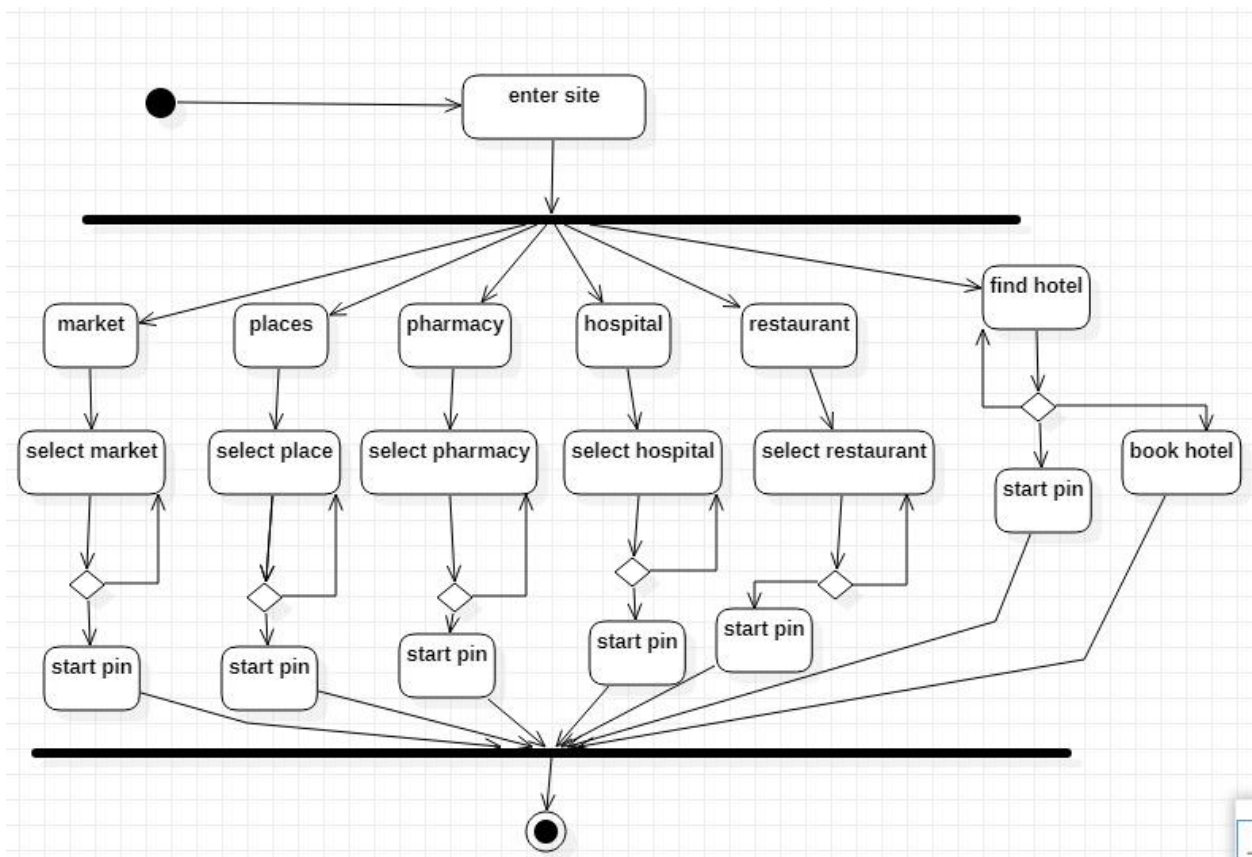
4.5. Sequence / Collaboration Diagram



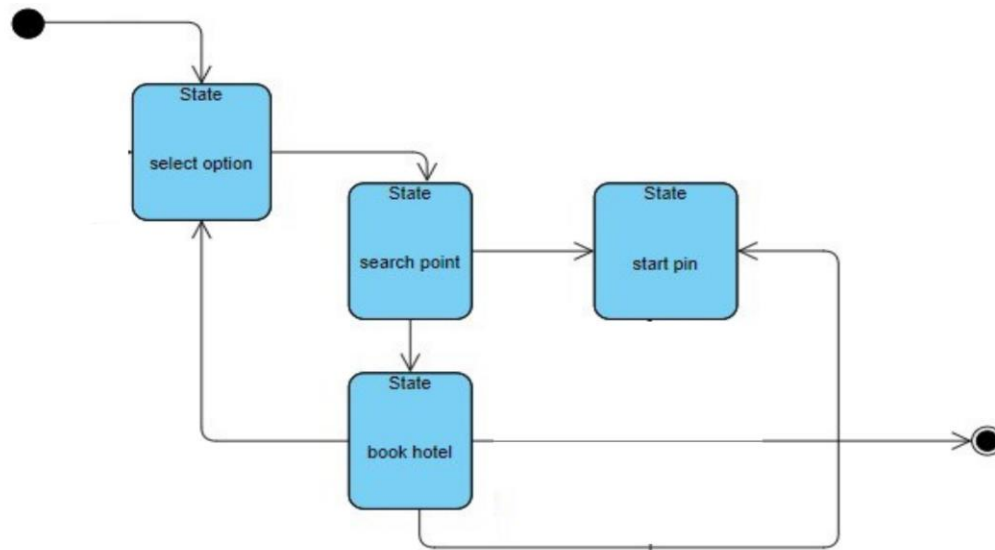
4.6. Operation contracts

- Use Cases often fully describe the behavior of a system
- But they may not be enough Operation Contracts describe how the internal state of the concepts in the Domain model may change.
- Operations Contracts describe in terms of preconditions and post conditions.
- There is no pre and post conditions in this website.
- Operation Contracts are described in term of system operations
- Operations (say, Method) that the system offers as a whole

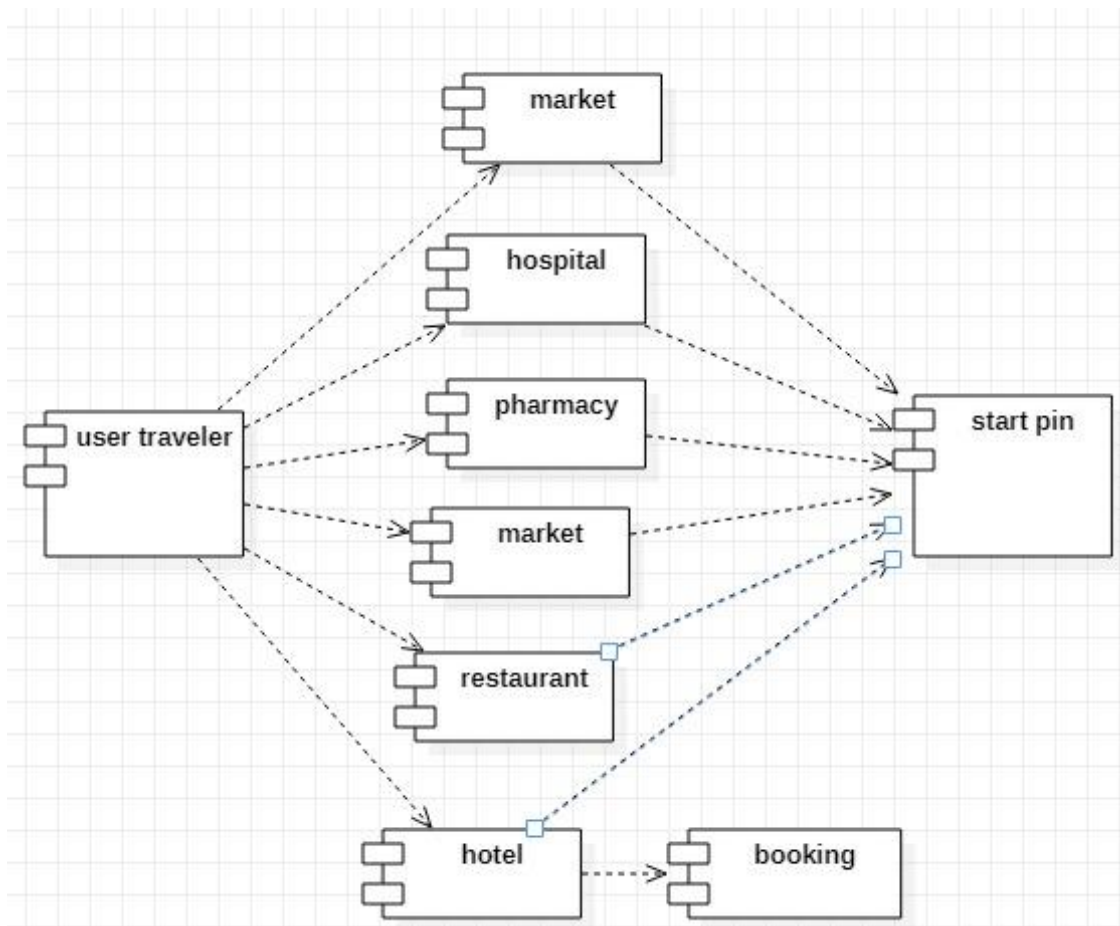
4.7. Activity Diagram



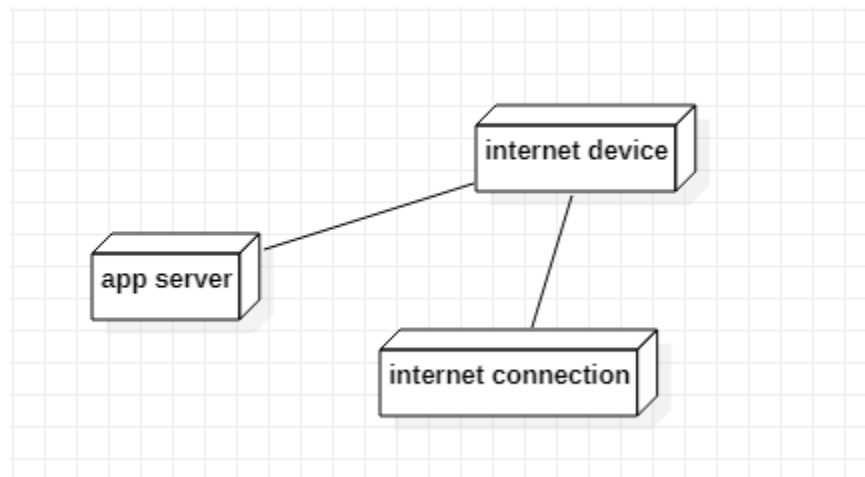
4.8. State Transition Diagram



4.9. Component Diagram



4.10. Deployment Diagram



Chapter 5

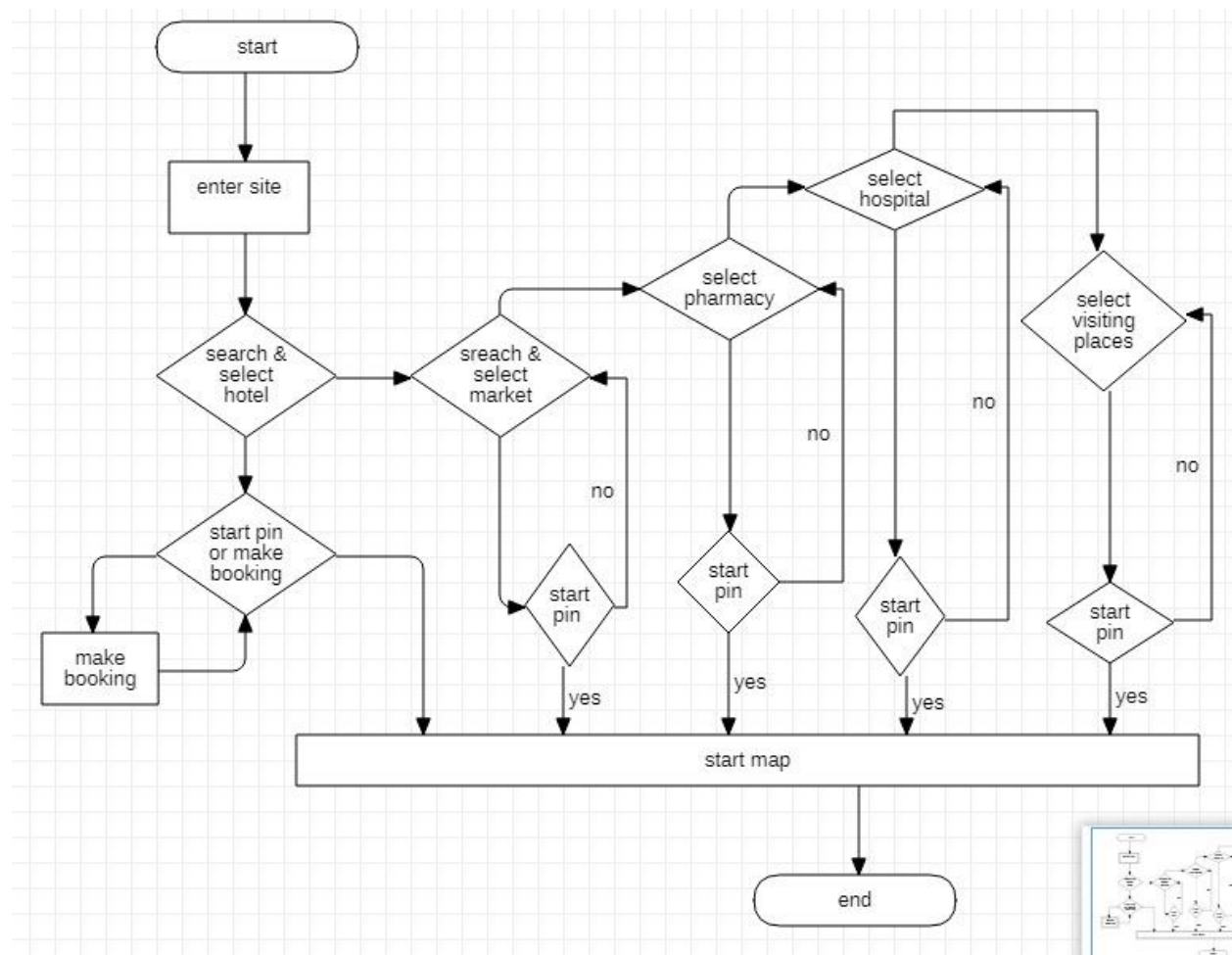
Implementation

Chapter 5: Implementation

In this chapter we briefly explain the implementation of our Website. We define which tools are used and which language are used for coding. Important flow of system is also defined.

5.1. Important Flow Control/Pseudo codes

Pseudo codes mean how over project will work its complete flow we have described it in diagrams like UML diagram sequence diagrams etc. Pseudo code is simple. You just write out the steps to be taken to perform any task. After it the user send request to join academy. In the next step payment decided against the trials services. If customer agree on provider amount, then send confirmation message otherwise reject request.



5.2. Components, Libraries, Web Services and stubs

- **Structure of Website:**
 1. Easy to use
 2. User can search different tour places
 3. User can search for hotels
 4. User can Search for Restaurants
- **Website Services:**
 1. User can pin the place where he wants to visit
 2. User can book hotel to stay

5.3. Deployment Environment

We use Visual studio environment where use different tools apply and develop a website which provide complete information about tour places google map is also integrate with it. We define these system different types of diagram like by use case. We explain how customer actually wants from us in this environment we also define the sequence of the website.

5.4. Tools and Techniques

Languages

bootstrap 5 latest version

Bootstrap Js

HTML

CSS

ASP.NET

Editor

Visual studio 2019

Documentation Tool

MS Office 2013

UML Tool

Sankey Flow Show

Visual-Paradigm Online

Star UML

5.5. Best Practices / Coding Standards

For reliable website, you have to perform work in best practices and also use best coding standard. There are lots of standard in the programming industry but we select Visual Studio 2019 is the one of the best standard compiler to create our website in which we ensure the user requirements with good practices.

5.6. Version Control

Operating System	ANDROID	IOS	WEBOS
	SUPPORTED	SUPPORTED	SUPPORTED

VERSION	
Visual Studio 2019	SUPPORTED

Chapter 6

Testing and Evaluation

Chapter 6: Testing and Evaluation

Performance testing of all those websites are really essential, whom are used by the millions of smart phone users or other desktop users across the globe. Any great website can become the victim of its own success, if thousands of users start accessing it at the same time. Performance testing bugs could occur in Travel Guide anytime, when thousands of online users start access it at the same time. Performance testing can really assure the quality in performance of any website, if it is employed out in a sustainable fashion. Any lapse in the implementation of performance test analysis approaches could affect quality in a long run.

6.1. Use Case Testing

Use Case Testing is a functional black box testing technique that helps testers to identify test scenarios that exercise the whole system on each transaction basis from start to finish.

Case 1:

Test case id	<i>IZ-01</i>
Test case Description	To check the Front-end procedure for users
Related Requirement	REQ-SF1-1
Test Procedure	User Get Along with UI
Test Data	Browse Through both Mobile & Desktop
Expected Result	User do everything own its own doesn't have to ask ADMINISTRATOR
Actual Result	Result was 99 percent successful User faced problem in chose section
Status	Pass

Case 2:

Test case id	IZ-02
Test case Description	To check the process of viewing the tour places on map
Related Requirement	To check if the details are being viewed or not
Test Procedure	Open website and click on search for viewing
Expected Result	Successful
Actual Result	Successful
Status	Pass

Case 3:

Test case id	IZ-03
Test case Description	To check the process of viewing the Hotels
Related Requirement	To check if the details are being viewed or not
Test Procedure	Open website and click on search for viewing
Expected Result	Successful
Actual Result	Successful
Status	Pass

Case 4:

Test case id	IZ-04
Test case Description	To check the process of viewing the restaurants
Related Requirement	To check if the details are being viewed or not
Test Procedure	Open website and click on search for viewing
Expected Result	Successful
Actual Result	Successful
Status	Pass

Case 5:

Test case id	IZ-05
Test case Description	To check the process of contact us
Related Requirement	To check that the user can easily contact us or not
Test Procedure	Open website and click on contact us for viewing the contact page
Expected Result	Successful
Actual Result	Successful
Status	Pass

6.2. Equivalence partitioning

Equivalent Class Partitioning is a black box technique (code is not visible to tester) which can be applied to all levels of testing like unit, integration, system, etc. In this technique, you divide the set of test condition into a partition that can be considered the same.

In our website Travel Guide the user must have the internet connection to use our services otherwise the user cannot access our services. The user must have to type the correct spellings of the place that he wants to visit otherwise he meets with an error.

Condition	Access	Error
Access to website	With internet connectivity	No Internet connection
Search tour places	Correct name of the place	Wrong spells

6.3. Data flow testing

Data Flow Testing is a type of structural testing. It is a method that is used to find the test paths of a program according to the locations of definitions and uses of variables in the program. It has nothing to do with data flow diagrams.

It is concerned with:

- Statements where variables receive values
- Statements where these values are used or referenced.

6.4. Unit testing

This type of testing is a white box testing where the developer tests the code by itself. The developer takes chunks of code and test it and check its behavior. Here we check every small activity of the system.

Search Place Testing

Test type	Unit testing
Test case number	1
Test case name	Search tour places
Test case description	The user should insert correct name of the place
Items to be tested	The name of the place corrected
Specifications: User must input valid name invalid name	Successful searching Error

Search Hotel Testing

Test type	Unit testing
Test case number	2
Test case name	Search hotels at visiting point
Test case description	The user should insert correct & valid name of the place so that he can view hotels at the visiting point
Items to be tested	Correct & valid name of the place
Specifications: valid search Invalid search	Successful searching. Error

Restaurants Search Testing

Test type	Unit testing
Test case number	3
Test case name	Restaurants searching
Test case description	The user should insert correct & valid name of the place so that he can view restaurants at pin point.
Items to be tested	Correct & valid name of the place
Specifications: Valid search Invalid search	Successful Searching Error

6.5. Performance testing

Launch an updated version of their website, it must perform well as per the expectation of users. If they will face performance vulnerabilities and bugs, then they will show less attachment towards this website and will go for a new substitute. Consistent performance testing of this with, with the help of a different techniques can help to assure the overall users reliability of this website on all expected platforms and devices.

6.6. Stress Testing

We normally use stress testing to understand the system limit and at which point the functions of the system keep on executing. The stress testing is actually helpful in determining whether the system will perform well during any situation. The behavior of system when system goes above the expected load.

Chapter 7

Summary, Conclusion and Future Enhancements

Chapter 7: Summary, Conclusion & Future Enhancements

7.1. Project Summary

The tourism industry has witnessed a tremendous progress from the last few years. Tourists from our country or across the world visit northern areas. They have to face a lot of difficulties due to the in availability of guidance. There are a lot of websites in the market which work on the road guidance, traveling businesses but there is no such a website which has complete information about tourist places with the map. Due to this tourists have to face a lot of difficulties including visiting new places, a place to live there or many others.

We are introducing such a tourist site as named “Travel Guide”. It will help tourists to enjoy the places of Pakistan and to solve such an issues which is mentioned above without wasting their time.

7.2. Achievements and Improvements

The reason of developing this website is to promote tourism in Pakistan. This website will also attract the tourists around the world and for business perceptive point of view this idea is in high demand.

7.3. Critical Review

The introduction of our website is not just simplified tourism for the tourists, but also it has opened the doors of business & employment to the millions of northern areas. The days waiting for tour consultant to make the tour comfortable are gone. It’s the era of internet where all the world is under your fingertips. Travel Guide website has a user friendly interface with a variety of needs matching options.

7.4. Lessons Learnt

Hard Work is key to success, and determination make us hard work. Be consistent in your beliefs.

Lesson leant from Travel Guide includes:

1. Always be upfront and be honest with users
2. Clear guidelines
3. Always keep planning for future
4. Be aggressive
5. Find genuine solutions for real problems
6. Provide competitive packages to attract users
7. Keep it simple and understandable

7.5. Future Enhancements/Recommendations

The future of Travel Guide website is to develop the app for its users. Use of other social media platforms to attract the people of the world toward the beautiful and charming places of Pakistan. It will not only promote the tourism in Pakistan but also the people of northern areas of Pakistan will be financially strong.

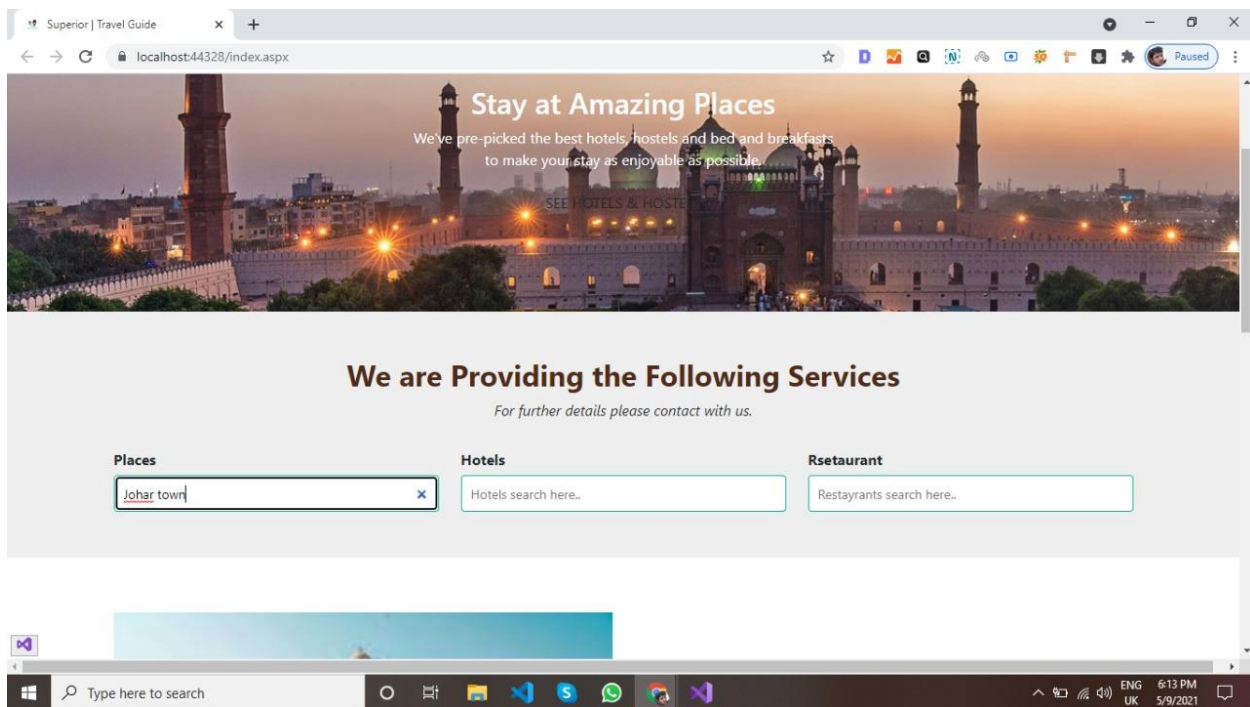
Appendices

Appendix A: User Manual

Our guidelines were developed to help make every experience feel safe, respectful, and positive. They apply to everyone who uses website. Whether you're running an errand across town or exploring a city far from home, getting there should be easy. Learn how to ride with the Travel Guide.

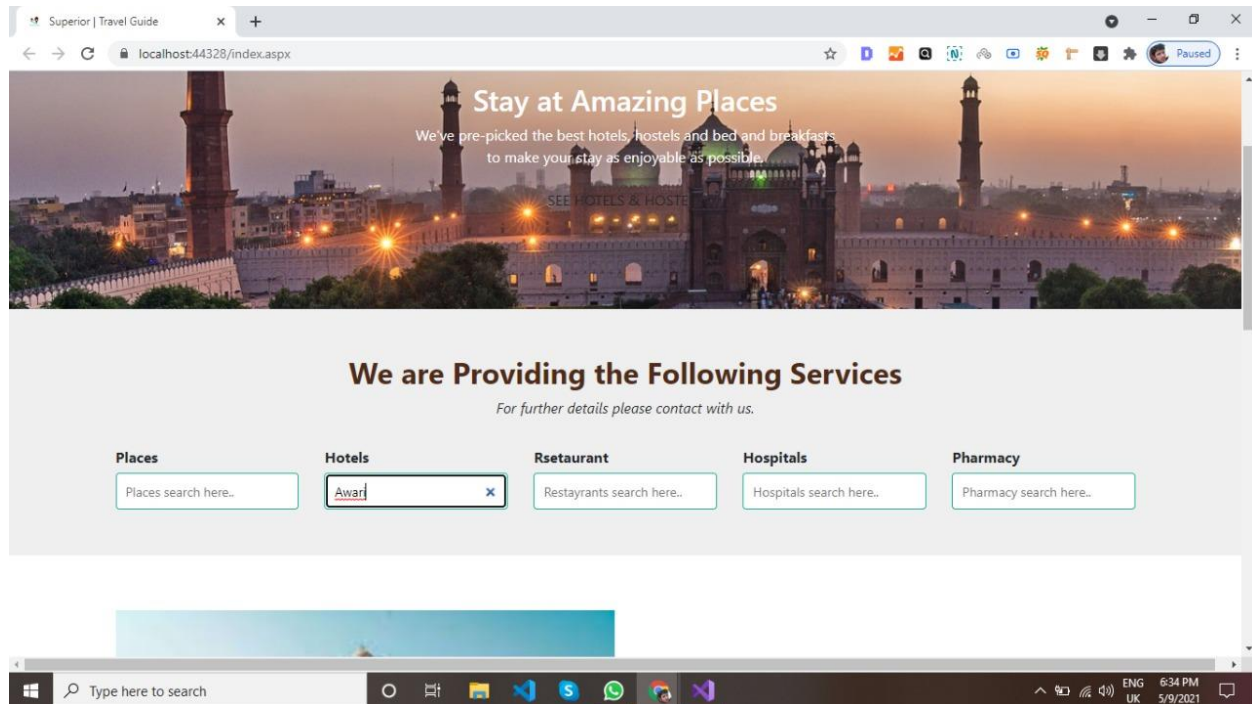
Search Places

All you need to just input the valid name of the place you are looking for and It will be in front of you in just a second.



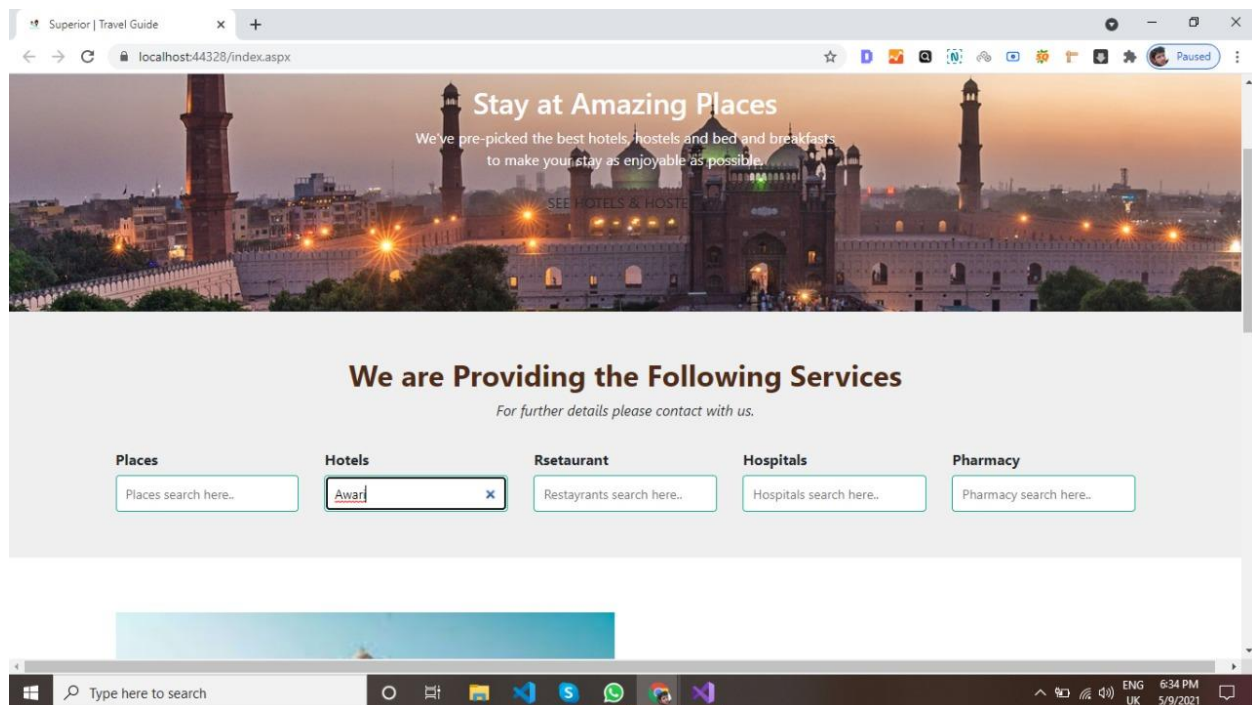
Search hotels

Are you looking for hotels to stay don't worry? Just open the website the search for hotels in the search bar. Results will be in front of you in just a second.



Other Guidelines

Similarly, it's very easy to search on website if you are looking for restaurants, hospitals or pharmacy. Just look around it.



Reference and Bibliography

Reference and Bibliography

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- [2]. <https://www.travel-culture.com/pakistan/>

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