



**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING,  
SCHOOL OF ENGINEERING AND TECHNOLOGY,  
SHARDA UNIVERSITY, GREATER NOIDA**

# **TRIP- A COMPLETE TOURISM SOLUTION**

*A Project Submitted*

*In partial fulfillment of the requirements  
for the degree of Bachelor of Technology in  
Computer Science and Engineering*

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**May, 2022**

## **CERTIFICATE**

This is to certify that the report entitled “**Trip – A Complete Tourism Solution**” submitted by “Mr. AMAN CHAUHAN (2018001310), Mr. RAGHAV GUPTA (2018004539), Mr. SATYAM SINGH (2018002681), Mr. ARUN KUMAR (2018004636) to Sharda University, towards the fulfillment of requirements of the degree of “**Bachelor of Technology**” is the record of bonafide final year Project work carried out by him in the “Department of Computer Science and Engineering, School of Engineering and Technology, Sharda University”.

The results/findings contained in this Project have not been submitted in part or full to any other University/Institute for the award of any other Degree/Diploma.

Signature of Supervisor

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**Signature of External Examiner**

**Date:**

## ACKNOWLEDGEMENT

A major project is a golden opportunity for learning and self-development. We consider ourselves very lucky and honored to have so many wonderful people lead us through in the completion of this project.

First and foremost, we would like to thank Dr. Nitin Rakesh, HOD, CSE who gave us an opportunity to undertake this project.

My grateful thanks to **Dr. Danish Ather** for their guidance in our project work.

**Dr. Danish Ather**, in spite of being extraordinarily busy with academics, took time out to hear, guide and keep us on the correct path. We do not know where we would have been without her help.

CSE department monitored our progress and arranged all facilities to make life easier. We choose this moment to acknowledge their contribution gratefully.

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## **DECLARATION**

We hereby declare that the project “Trip-A Complete Tourism Solution” has been carried out by our own efforts and the fact arrived a tour observation under the guidance and motivation of subject teacher “Dr. Danish Ather”.

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## ABSTRACT

Tourism is a very wide domain that catches the interest of many people worldwide. But every tourist needs to plan an itinerary that could help in his trip. Various platforms are available for this sake but there are several limitations and lacking are there in each of them. Trip provides a full-fledged solution to the customer. Different services like hotel booking, e-commerce, food and, travel could be planned on a single platform only. The application will also be embedded with a guide and support option which will help the user whenever needed. We designed here plans as an iterative process where the user at first will give feedback on interest selection, then the system will provide the best option on the basis of feedback and new set of interest of things at the last step. This process completes with the user satisfaction. Our work shows that, for each function and interest choosing, computing an itinerary is NP-complete.[1] Our work is based on heuristics solutions and focuses to optimize to maximum for a case where interest selected by user and scores generated are directly proportional. The various results based on experiments conducted shows the effectiveness and pure quality of the proposed plan by our software. At this present time here, all things are going to online platform. Because of covid 19 pandemic there is a major advantage of that online platforms is going on the top. Because of the online platforms all works are done by only in few clicks. But because of those online platforms we need to go through a specific platform for doing any type of online works like Online ticket booking, food ordering, shopping and hotel booking and for many more things. For improving the convenience of customers, we are trying to build a merge platform for holiday planning or you can use this platform in your daily life.

***Index Terms*** N-P complete, embedded, full-fledged, scores

## LIST OF FIGURES

Fig 1	Normal systems	2
Fig 2	Trip system	3
Fig 3	System flowchart	8
Fig 4	System and user interaction	34
Fig 5	Design phase of the system	35
Fig 6	ER diagram	35
Fig 7	System modules interaction	36
Fig 8	Connections for travel reservation system	36
Fig 9	Use-case diagram of the system	37
Fig 10	Level 1 DFD	37
Fig 11	Level 2 DFD	38
Fig 12	Level 3 DFD	38
Fig 13	Sign-in page of the system	41
Fig 14	E-commerce preview	42
Fig 15	ProFood preview	42
Fig 16	Cart preview	43
Fig 17	Preview for rooms facility provided	43
Fig 18	ProRooms Preview	44
Fig 19	Services provided by us	45
Fig 20	ProTravel Preview	46
Fig 21	Database preview in MongoDB	46
Fig 22	Checkout screen for the system	47
Fig 23	PayPal payment gateway	48
Fig 24	Combined plan system	49

## **LIST OF TABLES**

Social and economic impact	3
Hardware specification	10
Software specification	11
Existing system	12
Advantages and disadvantages	24

# Contents

Title Page.....	i
CERTIFICATE.....	ii
ACKNOWLEDGEMENT .....	iii
Declaration.....	iv
Abstract.....	v
List of tables .....	vi
List of figures.....	vii
Chapter1: INTRODUCTION .....	1
1.1 Problem Definition .....	6
1.2 Project Overview/ Requirement Specifications .....	7
1.3 Hardware Specifications .....	10
1.4 Software Specifications .....	11
Chapter2: Literature Survey .....	12
2.1 Existing System: .....	12
2.2 Literature Review: .....	13
2.3 Research Feedbacks:.....	24
2.4 Proposed System.....	26
2.5 Feasibility Study .....	28
2.6 Risk Management: .....	32
2.7 Project Plan:.....	33
Chapter 3: System Analysis and Design.....	34
3.1 Design Model and System Workflow.....	34
3.2 Flowcharts/DFDs/ERDs .....	37
3.3 Design Methodology .....	39
3.4 Software Testing.....	39
Chapter 4: RESULTS / OUTPUTS .....	41
Chapter 5: Conclusion .....	49
5.1 Further Improvement: .....	49
References .....	50



# **Chapter 1**

## **INTRODUCTION**

This 'Trip- A Complete Tourism Solution' project is a web application that can help a traveler to plan his itinerary to an unknown place. Everyone likes to travel but planning an itinerary for that trip is one of a major hustle that everyone feels. When it comes for selecting interest point of an individual, it searches for the most interesting places around the city and matches it with the user interest maintaining the time they spend there and measuring the satisfaction level of the user with lowest possible budget. The plan managing apps like trivago and make my trip does provide the itinerary management but they do provide a limited facilities to the user and then a user needs to go to certain other places for the rest of the things.[2] Although there were significant drawbacks that were not tailored according to the user interest at that moment. As for a first timer visitor to Delhi, India Gate could be an interesting place to visit but for a regular person the interest could be to visit Akshardham temple or lotus temple.[1] Then the major task is to find service which could take you to those places satisfactorily. The main problem after all this when is budget which comes to one's mind as everyone is having their own limit. There are also the things to keep in mind as there might be a person came for night layover or a person who has come to the city for a month or more on a vacation. Thus, all these things must be planned beforehand.

Economic growth and in the high demand of an online platform in global level users are used different – different type of platform for shopping food ordering ticket booking and many things. Because of using many platform users need to register herself on those platforms because of registering herself his personal information are stored in company. But because of the different platforms he needs to be register on every platform. in this case there will be a change of data hacking or information leak. For reducing this type of problem, we are trying to develop a merge platform.

## General Brief:

Tourism is a very wide domain that catches the interest of many people worldwide. But every tourist needs to plan an itinerary that could help in his trip. Various platforms available for this sake but there are several limitations and lacking are there in each of them. Trip provides a full-fledged solution to the customer. This time users are using this type of system.

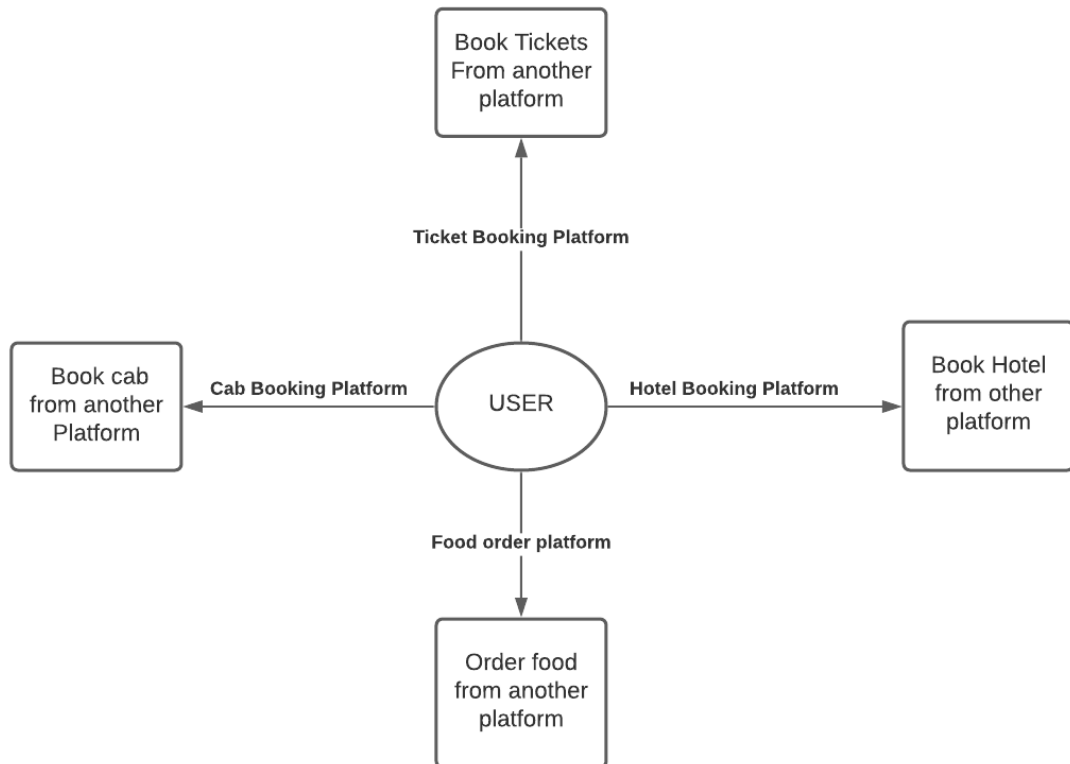


Fig.1. Normal Systems

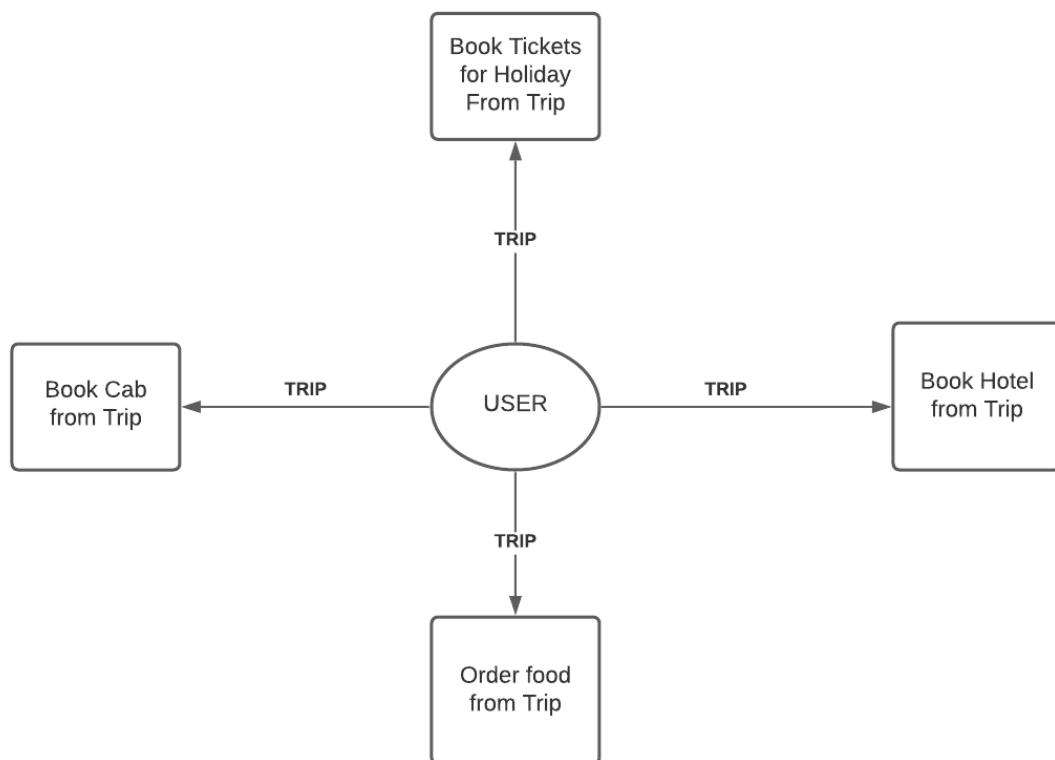


Fig.2. Trip System

### Impact of TRIP:

ECONOMIC	SOCIAL
<ul style="list-style-type: none"> <li>❖ Increased Job opportunities.</li> <li>❖ Impact on traditional way to book cabs or food ordering and online tickets booking system.</li> <li>❖ Help to grow all connected people.</li> </ul>	<ul style="list-style-type: none"> <li>❖ Changes Human -online Booking system.</li> <li>❖ Impact on life style of people.</li> <li>❖ Convenient for human life.</li> <li>❖ Impact on currently active platforms.</li> </ul>

## **Project Description:**

Many websites, helps in the same sector of tourism planning but the solution provided by them is a partial solution.

- Our website provides complete planner at a single place rather by sites like Trivago, Booking.com, Dine-out, Airbnb and, meesho etc.
- Our web app does not focus on retail-sell market like amazon rather it provides goods and foods that is trip necessary or is famous purchase of your planned city.
- Our Future aim is to embed a city guide and planning helper, which will help you to plan your trip by recommending suggestion and tells you about the city and its important places.

## **Objetive of Our Project:**

- 1. Secured Register/Login: The owner will have to register him/her and then him/she can login into the application, by filling up the form, and we would also try to provide a feature for forgot password.
- 2. Easy UI: The UI of all the pages will be user friendly and easy to navigate, according to Indian users.
- 3. Payroll Management Feature: The owner can have a full record of all its staff members and their payrolls.
- 4. Inventory Management Feature: According to their need, the owner can have a full record of all the inventory of its business.
- 5. Bill Generator Feature: This feature will help the owner form a complete e-bill, and we will also try to add a QR code which can directly be sent to the customer, for their convenience.

### **Advantages of Our Software:**

1. All the references for the old trips and all the past history are always available within the software.
2. There won't be any chance for missing out anything.
3. All the things like the wishlists and the places for the staying can be taken care of.
4. Bookings and purchasing tickets can be done before time.
5. A good plan can be maintained in the application that'll provide an overall great experience in the entire trip.
6. Having this app, the user doesn't require much assistance from the outside world, everything will be provided in hand within the software.
7. Activities can be sorted on the basis of priorities can be taken care of separately in the desired manner.
8. All time support, to allow the customers to travel with confidence.
9. The entire duration of the trip can be planned at a very ease, starting from the booking till the day to get back home.

## **1.1 Problem Definition**

When organising a whole vacation, a user must see through a list of factors such as the travel itinerary, ticket purchases, and hotel reservations, among others.

Packing, budgeting, and coordinating trip details with travelling companions may all be stressful and irritating aspects of travel planning. Our goal was to identify a major pain point in the vacation planning process for which people have yet to find a solution, and then create a responsive website to address the problem.

Among the most common issues are:

1. The most challenging aspect of travel preparation is coordinating logistics and making collective decisions.
2. Before visiting, users often utilise blogs to learn about the local culture; however, they have no idea which blogs or articles are reliable.
3. Users prefer to pack only the necessities because they are unfamiliar with packing constraints and required items for each journey.

Tourism can either be point of interest or need, depending on people but planning a complete itinerary for that trip is a hectic work for all. Our solution of Trip, helps a user to plan his travel in such a way so that he can manage all his tourism essentials at a single platform only.

The user will be able to plan and manage all the necessary things during his visit to some place and for this he will not have to move to lot many websites and could be done at a single place.

Another important and useful thing is that user will not have to take so many itinerary apps in his phone and just have to install this single one which also saves the phone space which could be utilized for some other purposes.

The combination of mobile and web app will further solve this as if someone does not want to have an app in his phone as he occasionally does travel, then he can use the web version of the app and does all the same work from there as well.

## **1.2 Project Overview/ Requirement Specifications**

### **1.2.1 Functional Requirements**

#### **1.2.1.1 Introduction**

Tourism is a very wide domain that catches the interest of many people worldwide. But every tourist needs to plan an itinerary that could help in his trip. Various platforms available for this sake but there are several limitations and lacking are there in each of them. Trip provides a full-fledged solution to the customer.

#### **1.2.1.2 Input**

#### **1.2.1.3 Formulation**

It is critical to create specific programmes and follow the actions below in order to achieve the objectives.

- Providing an integrated platform for carrying out all of the tasks required for trip planning.
- Providing a Safe and Secure Solution in order to protect user integrity and increase trustworthiness
- All of the different elements are integrated to make planning a vacation easier.
- A wonderful user experience will emerge from proper planning and synchronisation.

#### **Date of Travel, Location of Travel**

The user while confirming a booking for his travel, he just has to give the input to the web app in the form of location to which he is planning to make a tour and also one more input in the form of date and time so that it could help the user to manage his tour for those certain dates.

#### 1.2.1.4 Processing

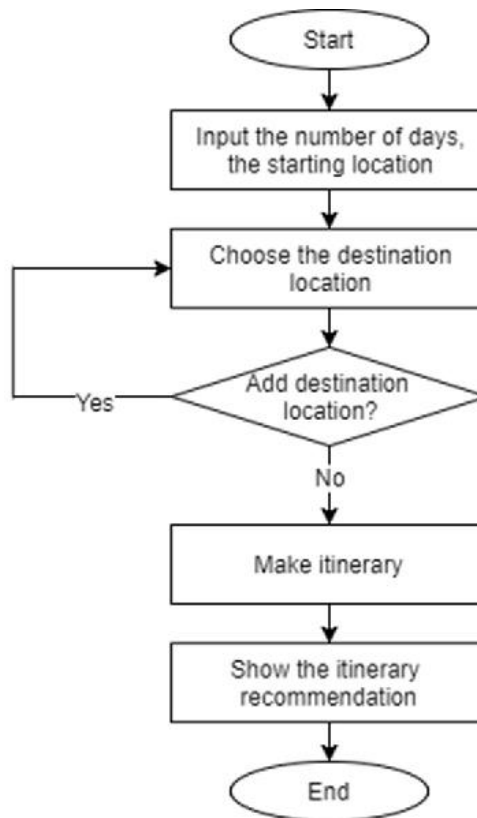


Fig.3. System Flowchart

#### 1.2.1.5 Error Handling

We have used Try Catch and the exception handling feature to handle the errors possibilities. The human mistakes like spelling mistakes can be optimized and reduced to its minimal.

#### 1.2.2 Normal Requirements

The following demands by the customer should be focused to sustain the satisfaction of the customer:

**N1:** A good interface for the user interaction.

**N2:** Feedback for the improvement and maintenance of the development.

**N3:** The simplification of database tables, for better understanding and maintenance.

**N4:** The application should be able to manage all the necessary things of a customer during a trip.

**N5:** Development of a simple easy UI, for a better user interaction.

#### 1.2.3 Non-functional Requirements

Some of the user specific entries like name, phone no, etc., are included in this, which



have no inter-connection with the programs of the modules but are required for the user.

#### **1.2.3.1 Performance Requirements**

The performance is the quickness with which a site's content loads in a web page and the pace with which it gets renders and the experience of user with its UI. The web apps which responds to with the slow pace to the user input and are slow to render and display and eventually increase abandonment of site are bad performing sites.

#### **1.2.3.2 Reliability**

Links to and from other websites indicate that the site is well-regarded. The author(s)' credentials are highly regarded. Citations and references are included in articles. The number of news stories is limited, but they are detailed.

#### **1.2.3.3 Availability**

The term "website availability" refers to the ability of people to successfully visit a specific website. If the URL displays the expected content, the website is "accessible." Access by entering the URL or clicking a link from social media, emails, referral websites, and so on. Another term for availability is "uptime".

#### **1.2.3.4 Security**

Website security signifies the prevention of all the cyber hazards that can be caused due to any malware or any kind of malicious activity. It also Prevents the exploitation of the website to any kind of unknown source or any kind of critical or sensitive equipment.

#### **1.2.3.5 Maintainability**

Website maintenance comprises of the processes responsible for avoiding any kind of errors or bugs and also updating the website content to the latest version at any time.

This also includes regulating website traffic and providing a user friendly experience.

### 1.3 Hardware Specifications

<b><u>Minimum Requirements</u></b>	<b><u>Windows</u></b>
<b><u>Operating System</u></b>	Windows 7
<b><u>Processor</u></b>	Intel i3
<b><u>RAM</u></b>	2 GB RAM
<b><u>DISK Space</u></b>	A minimum of 5 GB disk space is required

<b><u>Recommended Requirements</u></b>		<b><u>Windows</u></b>		
	<b><u>Process or</u></b>	<b><u>RAM</u></b>	<b><u>DISK Space</u></b>	<b><u>Graphics Adapter</u></b>
<b>Visual Studio</b> <b>MongoDB Atlas</b>	Intel i3	2 GB	Min. of 1GB for visual studio  Min. of 5GB for Other installations	An OpenGL Graphic Adapter

## 1.4 Software Specifications

<b>Visual Studio</b>
<b>Express JS</b>
<b>Node JS</b>
<b>React JS</b>
<b>MongoDB Atlas</b>

In this project we will be using these following Hardware:

- Minimum Laptop or CPU Processor i3 or more
- Minimum 2 GB RAM
- Stable Internet Connection

This project we are using these following Software:

- Android studio
- Flutter (Dart)
- VS Code
- Mongo DB
- React-Node with js/mernstack

### Language

- Java Script

## Chapter 2

### Literature Survey

#### 2.1 Existing System:

Application Name	Advantages	Disadvantages
<b>Airbnb</b>	<ul style="list-style-type: none"> <li>- potential damage</li> <li>- added fees</li> <li>- taxes</li> <li>- not legal everywhere</li> </ul>	<ul style="list-style-type: none"> <li>- Wide selection</li> <li>- Free listing</li> <li>- customizable search</li> <li>- additional services</li> </ul>
<b>Paching Pro</b>	<ul style="list-style-type: none"> <li>- potential damage</li> <li>- Added fees</li> <li>- Extra taxes</li> <li>- not legal everywhere</li> </ul>	<ul style="list-style-type: none"> <li>- potential damage</li> <li>- Added fees</li> <li>- Extra taxes</li> <li>- not legal everywhere</li> </ul>
<b>Sygic Travles</b>	<ul style="list-style-type: none"> <li>- potential damage</li> <li>- added fees</li> <li>- taxes</li> <li>- not legal everywhere</li> </ul>	<ul style="list-style-type: none"> <li>- Wide selection</li> <li>- Get walking directions</li> <li>- additional services</li> </ul>

## **2.2 Literature Review:**

### **E-Commerce Website**

*-by Raghav Gupta*

#### **Paper-1 Study & Development of E-Commerce Website**

E-commerce has the potential to be a huge success in today's commercial world. Ecommerce is called as e commerce. E commerce involves the process like selling and purchasing of goods and services including the payments services through a very secure network and not causing any harm to users identity.

##### **Advantages:**

- The advantages of achieving Business-to-Customer (B2C) e-Commerce are significant. Effective B2C services helps businesses to a very large extents and help improving the customer experiences.
- Because of its novelty and rapid expansion, e-Commerce is a prominent study topic. The concept of implementation has been debated and difficult for researchers, according to extensive study in E-Commerce implementation studies. E-commerce is developed by B2B and B2C, and it assists customers in meeting their needs.

##### **Disadvantages:**

- The privacy of the customers is a great concern for all the ecommerce services.
- There is problem of consumer involvement in-store.
- More money is required for carrying out an online business.

#### **Paper-2 E-Commerce and its impact on E-Commerce Management**

In recent years, the use of EC in manufacturing, retailing, and service activities is investigated, and a framework for characterising EC components and their roles in various organisational sectors is provided.

##### **Advantages:**

- E-commerce has the ability to serve many new and more customers everyday. Traditional brick-and-mortar companies are confined to customers who live and work in the area or who pass by on their way somewhere else.
- Having clients finish orders 24 hours a day is quite useful. There is no problem of timings for the user, a user can buy anything early morning or in the idle of the night

##### **.Disadvantages:**

- The major problem for an Ecommerce website is its dependency on internet facility.

- Another major drawback regarding Ecommerce website is the Problem of late delivery for any specific product in general due to several issues. The major problem for an Ecommerce website is its dependency on internet facility.
- Another major drawback regarding Ecommerce website is the Problem of late delivery for any specific product in general due to several issues. The major problem for an Ecommerce website is its dependency on internet facility.

### **Merged Platform**

***-By Raghav Gupta***

### **Paper 3 A Review of Trip Planning Systems:**

Trip planning systems can provide assistance in trip planning (before and during the journey) using one or a number of modes of travel, taking into account travellers preferences and constraints, and effectively integrating static and dynamic data. Trip planning systems could adversely affect traffic demand as people who become aware of new opportunities might be encouraged to make more journeys. It could also affect travellers' choice as a result of over-saturation of information, over-reaction to predictive information, and concentration on the same 'best' routes.

#### **Advantages:**

- Recent advancements in the sectors of telecommunications and information technology have opened up possibilities for improving the quality and methods of providing information to travellers.
- In public transportation, enormous amounts of data on timetables and fares may be stored in computerised databases that can be easily examined and more complicated inquiries can be addressed relatively quickly.

#### **Disadvantages:**

- Slow response time of the website or the portal can sometimes makes the task very much hectic for the user resulting in less website users and poor ratings.
- Inefficient website navigations can confuse any user lead to switching the website.
- Less security in payment methods and even less no. of payment gateways can also reduce website users.

#### **Paper 4 DEVELOPMENT OF WEB-BASED TRIP PLANNING SYSTEM:**

Paper compares the delivery services of three famous companies i.e., Zomato, Swiggy and, Uber Eats based on customer satisfaction, liking and disliking due to several factors. There is a quick survey conducted from 250 people of Ludhiana, out of which around 160 responded. Paper compares the delivery services of three famous companies i.e., Zomato, Swiggy and, Uber Eats based on customer satisfaction, liking and disliking due to several factors. There is a quick survey conducted from 250 people of Ludhiana, out of which around 160 responded.

##### **Advantages:**

- The improvements in the telecommunication sectors resulted in the improvements in the quality of the website for providing a user friendly experience.
- In public transportation, enormous amounts of data on timetables and fares may be stored in computerised databases that can be easily examined and more complicated inquiries can be addressed relatively quickly.

##### **Disadvantages:**

- Slow response time of the website or the portal can sometimes makes the task very much hectic for the user resulting in less website users and poor ratings.
- Inefficient website navigations can confuse any user lead to switching the website.
- Less security in payment methods and even less no. of payment gateways can also reduce website users.

#### **Food Delivery Apps**

*-By Aman Chauhan*

#### **Paper-5, Review of Online Food Delivery Platforms and their Impacts on Sustainability**

##### **Abstract:**

Paper comprises different aspects of food delivery apps. It also predicts positive as well as negative impacts on three pillars of sustainability.

##### **Advantages:**

- Job opportunities have considerably increased.
- The urban life has become more convenient.

- More secure in global pandemic situation, Like in the covid period it helped people very much.

***Disadvantages:***

- Due to less availability of drivers, delivery takes time.
- Using FD increases the plastic waste in environment.
- Drivers are working for different apps thus increasing traffic on streets, have to deliver long routes and causes job dissatisfaction.

***Difference:***

- We can contact to the existing drivers of different apps thus traffic could be reduced and we will be not depending on particular drivers for delivery in a location. Also, those drivers will be earning some extra.
- Making use of paper bags should be made compulsory to keep environmentally friendly.

**Paper-6, POPULARITY OF ONLINE FOOD ORDERING AND DELIVERY SERVICES- A COMPARATIVE STUDY BETWEEN ZOMATO, SWIGGY AND UBER EATS IN LUDHIANA**

***Abstract:***

Paper compares the delivery services of three famous companies i.e., Zomato, Swiggy and, Uber Eats based on customer satisfaction, liking and disliking due to several factors. There is a quick survey conducted from 250 people of Ludhiana, out of which around 160 responded.

***Advantages:***

- Factors because of which a particular app is liked by its customers (customer care, packaging, time of delivery).
- Attraction scheme by different apps (promotional offers, discount coupons)
- The paper is beneficial for understanding different activities being done by different successful apps thus new app could get benefitted.

***Disadvantages:***

- Only compares the 3 apps.
- The paper was surveyed in a small region and was conducted for only small no of people.
- The paper is a comparison paper and does not include predictive model.



***Difference:***

- Preparing a predictive model by learning from advantages.
- Confirming for right delivery by delivery person as well as customer thus preventing possible frauds.

**Merged Platform**

***-By Aman Chauhan***

**Paper-7, A SURVEY ON TOURIST TRIP PLANNING SYSTEMS**

***Abstract:***

The paper comprises of explaining functionalities of different trip planning systems and improve the lacking in the current proposed systems.

***Advantages:***

- Paper provides a concept of pre, post and on trip planning of a tour.
- Budget planning and reminder feature.
- Trip sharing feature with other tourists.
- Feedback support is provided with offline help.
- Trip re-scheduling or re-planning feature is provided.

***Disadvantages:***

- All the websites and systems discussed are mainly focused on city travel planning in POI (place of interest) planning
- No e-commerce and for necessary local items.
- No guide or translator available.

***Difference:***

- We are providing multiple needs at a single place.
- Time notes for remembering.
- Embedding all the lacking in the proposed systems.

**Paper-8, ATIPS: Automatic Travel Itinerary Planning System for Domestic Areas**

***Abstract:***

Paper compares the delivery services of three famous companies i.e., Zomato, Swiggy and, Uber Eats based on customer satisfaction, liking and disliking due to several factors. There is a quick survey conducted from 250 people of Ludhiana, out of which around 160 responded.

***Advantages:***

- The greedy algorithm breaks a large problem into small instances of problems and solving each of them separately and then combining the small solutions to form a complete solution.
- Tourists may locate popular and fascinating sites nearby to visit while there or throughout their journey.
- ATIPS will create a trip itinerary for the user based on their choices.

***Disadvantages:***

- No guide or translator available.
- The score is generally based on previous search, which could be different for everyone.

***Difference:***

- The suggestion is automatic thus person can't choose his preference of travel.
- The user will be having a facility to customize trip by own.

**Hotel Reservation System**

***-By Arun Kumar***

**Research paper 9**

If hotels utilised websites to promote their products and services in the past, they now use them to attract clients and provide them the option of booking rooms directly online without the need of other intermediaries. The main goal of this study is to determine the extent of hotel E-Commerce of internet booking systems in Romania. E-Commerce In order to achieve this goal, we conducted a qualitative study that included website analysis, document evaluation (such as promotional materials), personal observations, and official data analysis. The article begins with an overview of the Romanian hotel business, concentrating on the key characteristics of various E-Commerce hotel unit types. In the previous 10 years, Romania's hotel business has significantly expanded, today offering a diverse selection of lodgings that are both accessible and affordable. Furthermore, E-Commerce we concentrate on literature analysis, and because there are few articles in the current hospitality literature that explore hotel website users' judgments of the relevance of various elements of hotel websites, we develop a framework with characteristics E-Commerce for analysing hotel websites.

Many humans in India experience taking pictures the visual, ancient, and experiential contexts that landmarks provide as they travel. These individuals, however, use disjoint

sources to plan trips, lowering the great of the narrative enjoy they acquire while journeying an area. To facilitate the narrativization of an area and create a shared enjoy of that place, We will creat an Android application, which lets in customers to discover fundamental facts, photographs, ancient details, and travelers' reports concerning India's ancient places. Despite the fact that the utilization of internet booking frameworks appears to be exceptionally helpful from the get go, many examinations show how dangerous those agreements can be intended for clients

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If hotels utilised websites to promote their products and services in the past, they now use them to attract consumers and provide them the option of booking rooms directly via the website without the need of any other intermediaries. The primary goal of this research is to determine the extent to which hotels in Romania use online booking systems. To achieve this goal, we conducted a qualitative study using a variety of research methodologies, including website analysis, document evaluation, personal observations, and official statistics analysis. We shall review the online booking engines used by hotels in Romania based on the findings of our study and emphasise the key characteristics and features of these systems.

The explosion of online booking platforms has completely altered the immediate channel and legally binding link between hotels and customers. Clients now have the option of booking a room through one of several distribution channels. The purpose is to evaluate the various web-based booking frameworks and determine which is the best alternative from the client's standpoint. This study is based on a subjective report based on a multi-trait dynamic and fishbone methodologies, as well as a review of websites and papers. To the detriment of accommodation sites, third-party sites have completely acquired responsibility for online booking frameworks. Surely, most clients are

seeking for a few proposals on a single site in order to get the greatest quality-value ratio with as little time spent sitting around idle as possible. Despite the fact that the use of internet booking frameworks appears to be quite advantageous at first glance, several studies have shown how risky such arrangements may be for customers. When the advantages and disadvantages of online booking frameworks are examined and broken down, the research will conclude that it is critical for customers to use an instant channel and book their rooms on hotel websites.

### **Advantages of Online Booking Systems**

Online booking systems create an ease for the user to book a hotel and its complete information about the nearby places as well as all the other necessary information.

Direct contact with hotels

### **Disadvantages of Online Booking Systems**

Time-consuming to look on other hotel websites to select the best deal.

Time -consuming to call different hotels.

### **Merged Platform**

*-By Arun Kumar*

## **Research paper 11: Designing and Developing a Travel-Based Android Application**

Many humans in India experience taking pictures the visual, ancient, and experiential contexts that landmarks provide as they travel. These individuals, however, use disjoint sources to plan trips, lowering the great of the narrative enjoy they acquire while journeying an area. To facilitate the narrativization of an area and create a shared enjoy of that place, We will creat an Android application, which lets in customers to discover fundamental facts, photographs, ancient details, and travelers' reports concerning India's ancient places. Despite the fact that the utilization of internet booking frameworks appears to be exceptionally helpful from the get go, many examinations show how dangerous those agreements can be intended for clients

### **Advantages:-**

- reduce the expense of supplying and maintaining parking spots
- resolving issues arising from excessive parking demand
- Save money on mileage reimbursements and other business travel expenses.
- cut down on employee downtime due to business travel.
- lower the cost of operating a fleet

**Disadvantages:-**

- A lot of planning is required, which takes a long time. I mean, a great deal! Researching everything, reading reviews, and visiting Pinterest and websites for the best advice on what to see and do. I'm trying to decide which hotels to stay in. Everything must be scheduled. It's a huge undertaking.

There is no one to hold accountable if something goes wrong. It's all up to you. And you'll have to find it out on your own. There isn't a single travel guide you may consult.

**Research Paper :-12 Presence and Digital tourism**

This paper presents an advent to virtual tourism as mediated through presence studies as a method to create significant person reports (UX) for site visitors. Tourism is a wealthy and sundry socio-financial hobby that permeates our international society. Digital tourism is the virtual guide of the vacationer enjoy. In this paper we introduce and survey each fields and introduce some of examples of vacationer reports primarily based totally on our mixed areas approach. Cutting throughout that is the experience of presence that site visitors can enjoy in actual or virtual vacationer reports. We finish the paper with a dialogue of designing the person enjoy in mixed vacationer areas

**Advantages:-**

This paper is talking about the growth of the tourism company and this is also a major sector of economy there is many modes of transportation Like airways, railways , seaways and roadways this study aims to gets the solution for online bus ticket booking.

**Disadvantages:-**

OTAs may impose stringent terms and conditions, including as cancellation rules and automatic room resale regulations.

- Enhance Business Process , group booking, 24/7 booking , security and user friendly software.
- Easy to update and changes your ride details .
- All the System are online to book your ride.

**Online Travel Booking System**

**-SATYAM SINGH**

**Paper-13 Cab Booking System**

Abstract:

Paper comprises the trust ability and reliability of customer with the help of man and machine both and they hire educated trained and polite drivers for customers and also it gives the luxury features in budgets .

Advantages:

- No need to call any taxi booking company to book cab .
- Enhance Business Process , group booking, 24/7 booking , security and user friendly software.
- Easy to update and changes your ride details .
- All the System are online to book your ride.

Disadvantages:

- On a specific route if any of a driver is not available it takes much time to confirm your ride.
- It increase the traffic and pollution problems.

Difference:

- Data is centralized Data stored in data bases no need to use paper pen.
- Maintenance of the data of the client is easy to handle.
- You can book your cab at any time .

#### **Paper- 14 : Challenges and Opportunities in Online Reservation of Bus Tickets**

Abstract :

This paper is talking about the growth of the tourism company and this is also a major sector of economy there is many modes of transportation Like airways, railways , seaways and roadways this study aims to gets the solution for online bus ticket booking.

Advantages :

- Easy to book online tickets .
- It saves paper and also money through the discount offers.
- Anyone can book tickets in just few clicks.

Disadvantages:

- Difficulty to get your money refund in case of if you cancel your ticket.
- Some time Money is deducted without booking tickets.
- Personal information is not safe because of there is a risk of hackers.

Difference:

- There is no option that shows this seat is only for women's .
- It takes extra website charges.

- Details related to the monetary transactions is not secured.

### **Paper -15 Mobile Air Ticket Booking**

Abstract :

In this paper it talking about the difficulty about the online ticket booking he wanted to create a new and optimal platform for air ticket booking.

Advantages:

- No need to use laptop or pc to book ticket you can book through mobile.
- It reduce the functionality for absolute and necessary uses.
- Interface of an application is easy to use.

Disadvantages:

- It does not offer any discount to customer.
- Sometime Less functionality reduces the user interaction .
- Data of a customers is not safe.
- This is an only mobile based platform.

Difference:

- This is an only mobile application.
- Its provides you only standard set of flights.
- This application is location aware .

### **Paper – 16 The Growth of Online Bus Ticketing Industry: RedBus Route to Success in the Indian Market.**

Abstract: This paper talk about the bus travel industry is unorganised in India and this paper is only talk about ‘redbus’ which is the largest online ticketing operating company in India.

Advantages:

- It gives the customer satisfaction.
- It offers the low-cost tickets.
- Because of redbus the employment is increases.

Difference:

- It is working on low-cost models.
- Redbus started working on India level from starting.
- Building relationship with the bus operators.

## 2.3 Different research feedbacks

ADVANTAGES	DISADVANTAGES
<p>There's no need to phone a taxi company to order a cab.</p> <p>Enhance business processes, group reservations, 24-hour reservations, security, and user-friendly software.</p>	<p>If any of the drivers on a given route is unavailable, it takes a long time to confirm your travel.</p> <p>It exacerbates traffic and pollution issues.</p>
<p>reduce the expense of providing and maintaining parking spaces</p> <p>resolving issues arising from excessive parking demand</p>	<p>There is a lot of planning that must be done, which takes a long time. I'm talking about a lot!</p> <p>For the greatest advise on what to see and do, I researched everything, read reviews, and visited Pinterest and websites. I'm attempting to figure out where I should stay. Everything has to be planned. It's a massive project.</p>
<p>Huge volumes of data on timetables and rates can be saved in computerised databases for easy examination, and more complicated enquiries may be answered very rapidly in public transportation.</p>	<p>Ineffective website navigation might cause any user to become confused and abandon the site.</p>
<p>Selling low-cost housing services.</p> <p>To attract new clients, OTAs are investing in advertising, which implies they are spending less on online marketing.</p> <p>To attract new clients, you need advertise.</p>	<p>Every sale is subject to commission rates.</p> <p>Cancellation policies that are restrictive.</p>
<p>Every sale is subject to commission rates.</p> <p>Cancellation policies that are restrictive.</p>	<p>Because there are fewer drivers available, delivery takes longer.</p> <p>The use of FD increases the amount of plastic garbage in the environment.</p>



Customers like a certain app for a variety of reasons (customer care, packaging, time of delivery).	<p>The three apps are the only ones that are compared.</p> <p>The survey was done in a small area and for a small number of participants.</p>
Tourists can visit popular and interesting locations in the area while they are there or on their vacation.	<p>Assuring that this strategy will get you to your desired location.</p> <p>Calculate a score for each tourist attraction.</p>
<p>Ascertain that the consumer obtains the most competitive cost and comprehensive hotel information.</p> <p>Customers pay no additional expenses and have complete control of their leverage in the event of cancellation or delays.</p>	<p>It takes a long time to search various hotel websites for the greatest rate.</p> <p>Calling several hotels takes a long time.</p>

## **2.4 Proposed System:**

The interactive work of itinerary planning that we have proposed is an effort to produce and return complicated objects to the person based on user interaction and their limitations. In a recent paper, we have read the concept of composite things being used as first step pointing toward that goal. An itinerary, on the besides this, is not any random ordering of interest as set; it is strict ordering, as to the constraints. Because the ordering of them enforces a complex relationship between the interest points, and this problem differs and mismatched dramatically from our previous existing model.[3]

The navigation through the information area is made easier by the planner of the itinerary solution. There are exploratory browsing interfaces which are likely as faceted search and are similar to our interactive interest selection technique. Although the interactivity is only limited to interest points.[2]

The division of work on travel planning itinerary are in two categories: Data Analysis and Synthesis for tourism. In terms of the former, there are several research conducted on assessing the interest point of patterns based on geospatial and also on the temporal evidence which are been left by the passengers. These works primarily focus on analysis rather than synthesis of interest point of a user. There also exists a variety of works which are been develop for touristic information synthesis that is related to tourism.[1]

The new operation provides two-way path discovery with restrictions on orders. The proposed approach differs from us in that it does not take into account the user's budget, does not generalize from previous feedback to explore the future possibilities of user preferences, and most importantly, it attempts to build a path POI from POI. It iteratively narrows down by proposing alternatives, starting from all possible valid paths.

Because a travel plan may have a variety of functions for all types of travelers, it's critical for a travel agency person to understand all the requirements of his target market. A typical business traveler's schedule may include information about meetings, activities, and contacts, with some time set aside for leisure travel, whereas a leisure traveler's itinerary would focus on locations, places of interest, and modes of transportation. Online trip planners such as Sygic, Roadtrippers, and Triphobo.com assist adapt to various traveler profiles by making information more accessible and giving a tool for more efficiently organizing a travel schedule.

### ***A. Probability Model***

To derive n-k feedback with variety of combinations, it is very critical for a system and for any individual to set k number of interests considered while an itinerary planning. This kind of probability distribution you will be having an added advantage of the system in selecting the subset which will help to optimize the likelihood that is received from a highly ranked itinerary.[5] Here is used a probabilistic model which could be utilized to combine users' basic preferences (e.g., There are reports of statistics studies of previous query logs, stating that many people who want to see the Statue of Liberty at a moment they also wanted to see the Empire State Building at the same time reference) and personalization (e.g., the most pointed and accurate feedback obtained from the user on earlier taken batches of interests may showcase that this particular individual prefers visiting an art related place). Now, by the following we will be covering our model in greater depth.[1]

#### ***1) Initial population***

Derivation of starting population is the initial stage of execution for a Genetic Algorithm. A retardant solution for this is encoded by each of the members. Next, every single unit is assessed and also provided a value that is related to the fitness function. The results that are to be received by the genetic algorithm will be much optimized and good if the starting population of the algorithm is good, there will be a huge possibility that the algorithm will be going to find optimized and better result.[3] but, if the fundamental stream of construction blocks is not that good enough for being up to the mark, the time taken by the algorithm for finding best result will be drastically increased.

#### ***2) Selection***

The chromosomes being picked up by the operator from population. After picking up the chromosomes they are being selected and the tendency to breed of chromosome depends on their compatibility.[8] A new stage of generation is created by taking samples from the pre-existing population.[7] These samples are picked up as solutions briefly as fitness-based model, and in here the selection level of the individual is dependent upon the fitness of the result.

#### ***3) Crossover***

There exists another operator for genetic called crossover which is used to modify or change the programming included in the chromosomes that helps it for leading from one generation to the next. It is most prone to reproduction and also towards organic crossover,

which are the most fundamental foundations of genetic algorithms. The process of converting parents' solution into child solution by taking more than one solution of parents is known as crossover.[8] The collection of chromosomes sample could be done by various methods. The chromosomes are divided into two children by crossover as it randomly swaps the sequences of before and after the locus.[9] The copy of spontaneous chromosome and recombination between two single-chromosome organisms are done by these crossover operators.

#### **4) Mutation**

The genetic variation among the chromosomes of generations to the next is done by mutation by genetic algorithm which is much similar to natural mutation. During the life cycle of a chromosome there are several alterations is done in the values of genes either in a single or more. The outcome can be varied at large scale from the pre measured ones when it comes for mutation.[10] This eventually helps the genetic algorithms to produce a better and reliable outcome. At each and every bit point of a string there are chances of mutation to occur for modest success.

#### ***Fitness function***

The fitness function may be provided for the representation of genetic, thus we can perform depicted level of outcome for each operation. Each of the design obtained is important in the domains of programming and also in genetic algorithms. After all these testing is performed to remove the poorest n designs among all.[11] At the end people are to be provided badge of merit to showcase their closeness to general requirements, and this result is obtained as a result of putting fitness function on testing and trails.

## **2.5 Feasibility Study**

### **Costs for technology**

To develop a mix of diverse websites, you'll need a high-speed Internet connection, a web server, and software. Other costs to consider include the cost of the payment method, such as accepting online payments from the website portal, utilising a third-party like clude the cost of the payment method, such as accepting online h is more expensive.

### **Costs for technological development**

A team of programmers will be assigned to develop the essential functionally equipped requirements and program for creating the webapp.

### **Costs for support of consultancy**

To guide you through this process, you'll need the help of ebusiness design and implementation experts.

### **Costs for the organisation for piloting training**

Allowing admin employees who will use the system on a regular basis to test it as a training tool endeavour is always a good idea throughout the technological development of a website.

### **Cost for running**

These costs are for the regular maintenance of the web server.

### **Costs for processing further change**

This is the expense of training and adjusting your personnel to the new technology, mostly the tactics employed to make the transition as painless as possible.

## **FINANCIAL BENEFITS**

### **Improve Cash flow**

Instead of the typical 14-day wait, online payment would allow membership funds to be received the same day as the application was submitted. Enabling the process of membership to make it faster; it also entails a total reworking of the prior method of handling membership.

## **NON-FINANCIAL BENEFITS**

### **Communication**

Direct email marketing is quite inexpensive when compared to traditional direct mail marketing. Direct email marketing allows you to express your company's message at any time of day or night.

### **Transparency**

The membership procedure will become more transparent thanks to the Information Management Website.

## **SOLUTION**

Our project will rely on a database. Customers' information, for example, may be efficiently stored, modified, and retrieved using a Relational Database Management System. Some of the most extensively used databases include MySQL, MongoDB, MS Access, MySQL, and MS SQL.

There are some methods for making a payment. Which are:

1. Payment Methods Manually entering credit card information into current software programmes.
2. Paypal is a third-party service that provides companies with a cost-effective option to accept online payments for a small transaction fee. This is the most prevalent method of internet payment acceptance.
3. Accepting payments through an online bank is the greatest option because it is secure and speedy.

### **Technical Solution Analysis**

MongoDB was picked over the other options based on the following criteria:

- Flexibility for documents schemas
- Similar code data access
- Easy to change design
- Easy ways for querying and analysis
- Horizontal scaling easily implemented

Any understanding of the scheme's principal specifications is required for feasibility analysis. Computer Feasibility Dimensions would be as follows:

- **Technology**

Is the project feasible from a technological standpoint?

Is it a part of the current state of the art?

Will failure be confined to the necessity for a high-quality implementation?

- **Finance**

Is it feasible from a budgetary standpoint?

Is it conceivable for the web application and its customer to reach a fair level of production?

- **Time**

Can the time it takes to sell an idea trump the competition?

- **Resources**

Will the company have the funds it needs to succeed?

Major points to manipulate viability:

### **a) Technical Feasibility**

The goal of this analysis is to determine the system's technological viability, or technical requirements. The technological resources necessary are not required by any established system. This will put even more burden on the limited intellectual resources. It would boost the customer's already high expectations. Because this system may only be used with limited to no modifications, just the most basic requirements must be met.

In the following ways, practical evaluation of feasibility can be carried out.

- i. NP-Complete
- ii. NP-Hard
- iii. Satisfiability

#### **i. NP-Complete**

The P Class includes problems that can be solved in polynomial time. Such concerns belong to the NP class, which may be proved in polynomial time.

A question  $p$  in NP is NP-complete if any other issue in NP can be turned (or reduced) into  $p$  in polynomial time.

#### **ii. NP-Hard**

There are several issues for which no feasible solutions have been found. In comparison to P, NP, and NP-Complete, these issues are frequently more complicated. This can require high multiplicative constants, exponent terms, or polynomials of high order.

#### **iii. Satisfiability**

The Boolean formula is satisfied if there is at least one way to add value to its vector and we express it using SAT. The conundrum of determining whether or not the supplied formula is adequate.

### **b) Cost Feasibility**

The economic impact of the scheme on the business is assessed in this study. It limits the amount of money that may be spent on strategy research and development. The expenditures must be justified. As a result, the developed system was also developed within the budget, which was possible because much of the technology used is easily available. It was only right to purchase the customized things.

## **2.6 Risk Management:**

### **2.6.1 Risk Identification**

#### **2.6.1.1 Product Size Related**

R1 Additional lines of code or redundant algorithms might cause memory to be squandered.

#### **2.6.1.2 Customer Related**

R2 Because its customer isn't a professional, reading the customer's further criteria can be difficult.

R3 If a customer provides superfluous information, it may expose them to an unknown risk.

#### **2.6.1.3 Process Risk**

R4 During segmentation, a hazy or distracting image can be examined.

#### **2.6.1.4 Technical Risk**

R5 If character traits are not extracted, the complexity of ANN will grow.

#### **2.6.1.5 Development Environment Related**

R6 It is hard to change the entire system configuration to satisfy a client's request or an unwanted alteration made later in the implementation phase.

R7 Completing project modules can be difficult due to inexperience and a lack of tool training.

### **2.6.2 Strategies used to manage Risks**

S1 We can avoid Chance R1 by minimizing redundant coding.

S2 Meeting with the consumer on a frequent basis helps to mitigate risk.

S3 As previously said, R3 develops the system appropriately in order to incorporate improvements at a later stage and keeps all essential papers to minimize risk.

S4 Prior to segmentation processing, use a suitable noise reduction algorithm.

S5 To simplify the ANN's complexity, extract the character's feature.

S6 We have decided to finish a phased operation model and transfer the same number of staff to our client. The project's ANN component is tough and extensive.

S7 We will continue to improve the software's capabilities as consumer demand evolves.

**S8 By providing proper tool instruction, we will be able to prevent R7.**



## **2.7 Project Plan:**

### **All Sections:**

1. Register/Login UI: This section will contain a form for the users to register or login, at the starting of the application.
2. Service Page: It will be a basic design page, showcasing all the provided services in different sections.
3. Staff Payroll Management: This section will have a complete system to keep a record of all its staff members and their respective payroll, by filling up some entries.
4. Inventory Management: This section will have the system for noting down all the inventory related information.
5. Bill Generator: This section will be handy for generating an invoice for any kind of purchase or order placed, and will also provide a QR code for the bill.

### **Features:**

1. Secured Register/Login: The owner will have to register him/her and then him/she can login into the application, by filling up the form, and we would also try to provide a feature for forgot password.
2. Easy UI: The UI of all the pages will be user friendly and easy to navigate, according to Indian users.
3. Payroll Management Feature: The owner can have a full record of all its staff members and their payrolls.
4. Inventory Management Feature: According to their need, the owner can have a full record of all the inventory of its business.
5. Bill Generator Feature: This feature will help the owner for generating an invoice for any kind of purchase or order placed, and will also provide a QR code for the bill.

## Chapter 3: System Analysis and Design

### 3.1 Design Model and System Workflow

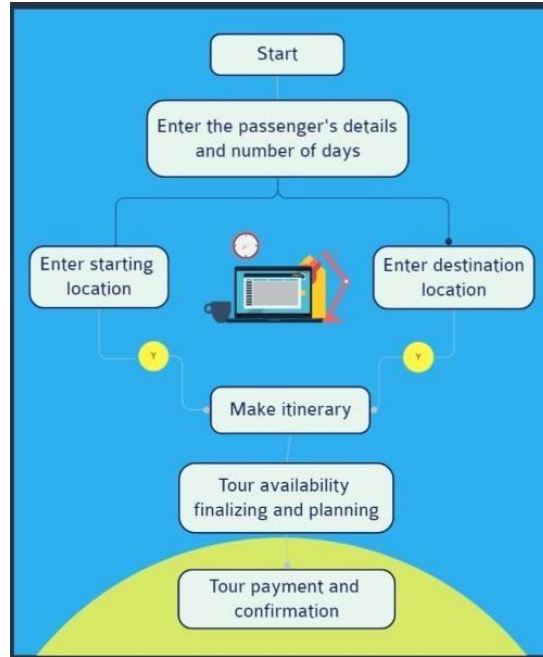


Fig 4: System and user interaction

With the help of Fig 4 it can be recognized the user's interaction with the software and flow of data from the starting to the end of the process. The diagram does not give us the detailed processing of the modules rather just gives the idea of the interaction of user with system design.

#### Design Phase:

The below given Fig 5, is the diagram for the system design and the various stages of the workflow that our system undergoes during the processing of the various trips for the users.

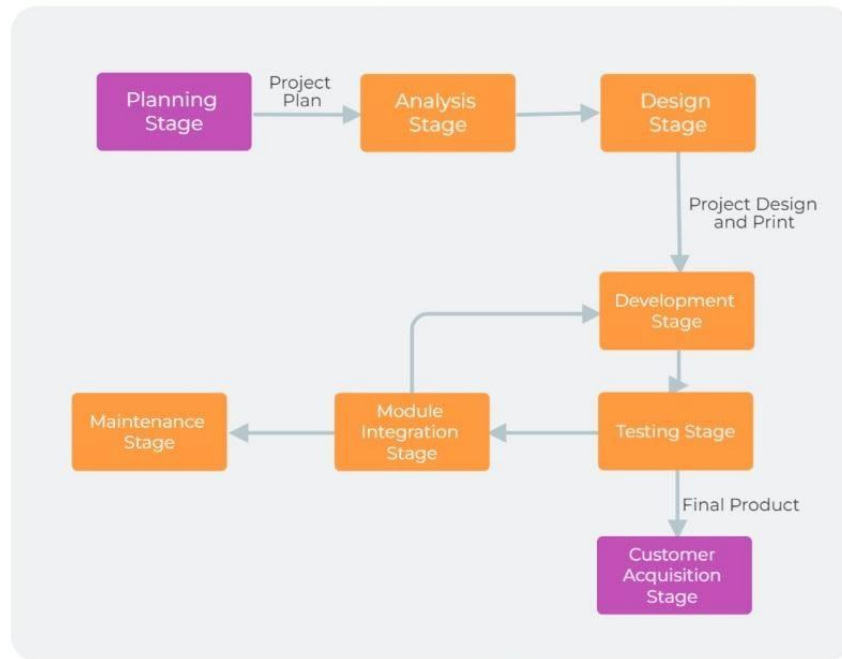


Fig 5: Design phase of the system

## Entity Relationship Diagram:

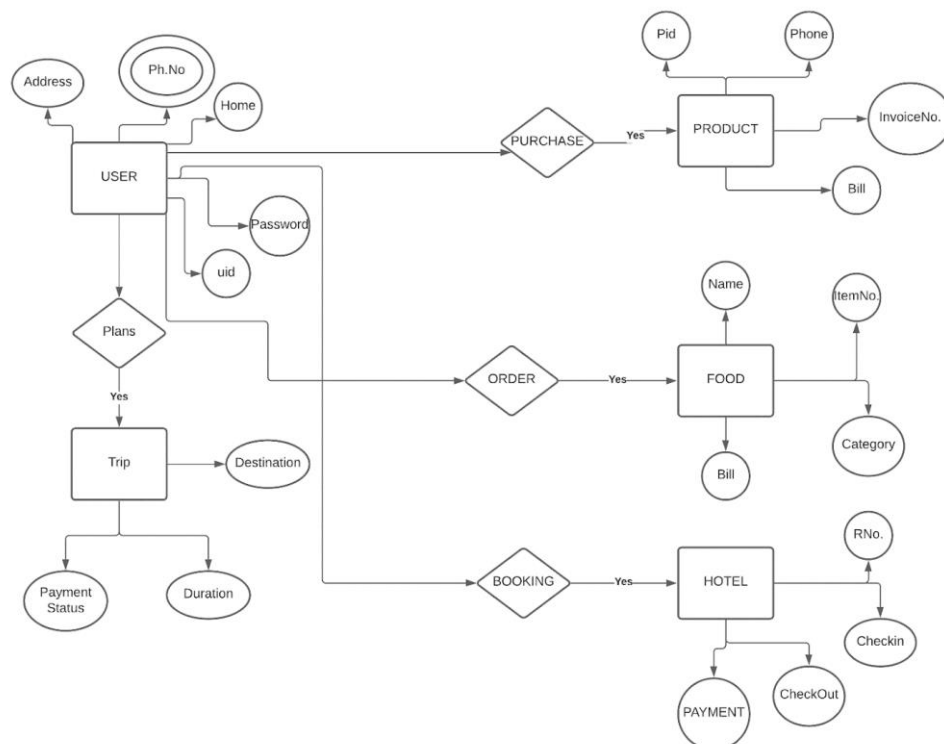


Fig 6: Entity Relationship Diagram

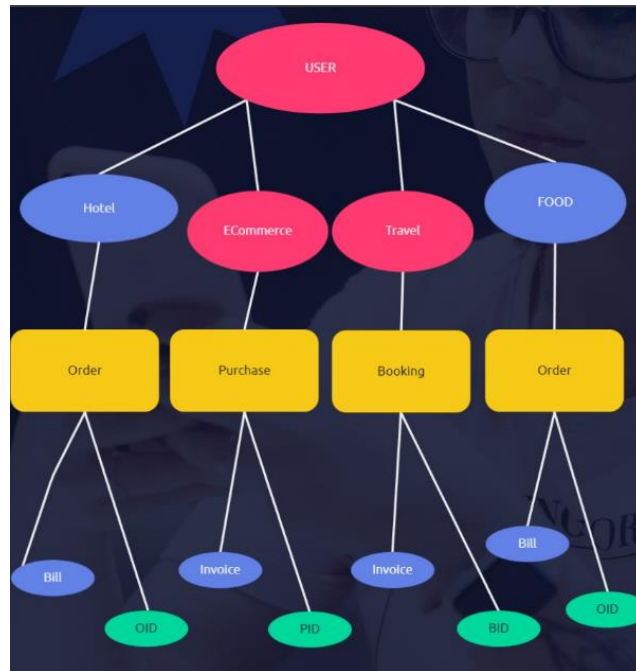


Fig 7: System modules interaction

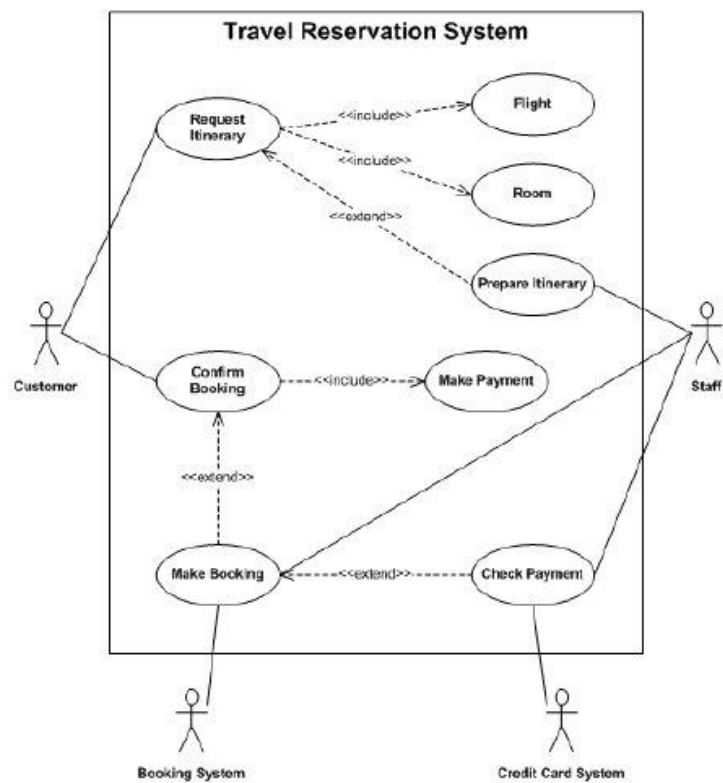


Fig 8: Connections for travel reservation system

## USE CASE DIAGRAM:



Fig 9: Use-case diagram of the system

## 3.2 Flowcharts/DFDs/ERDs

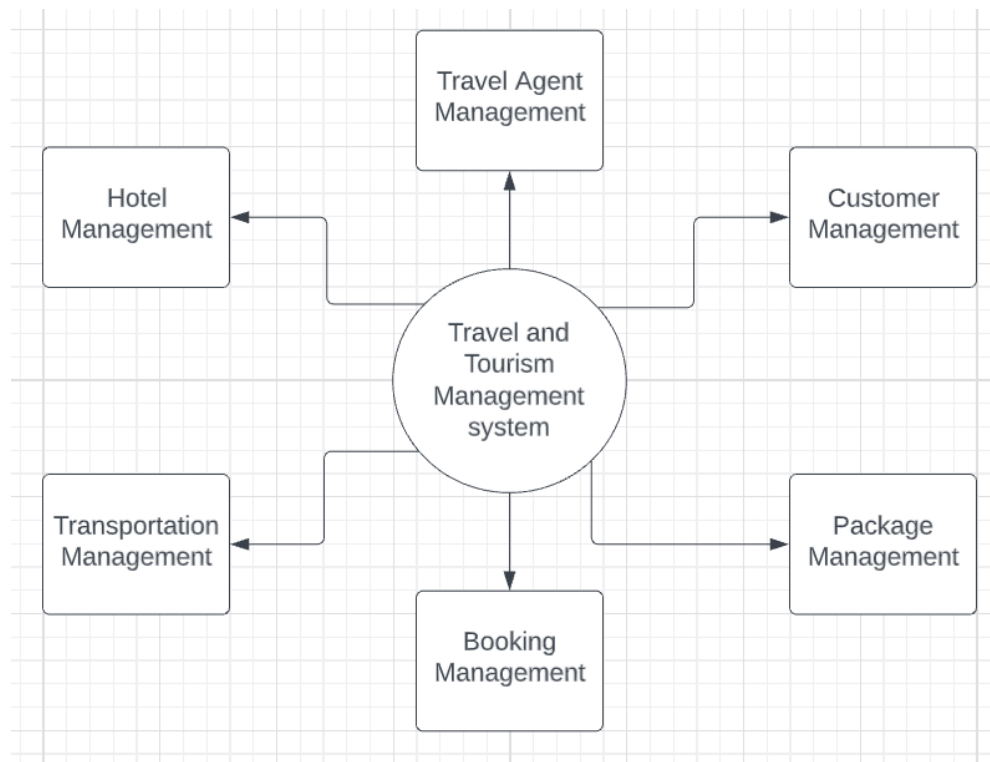


Fig 10: Level 1 DFD

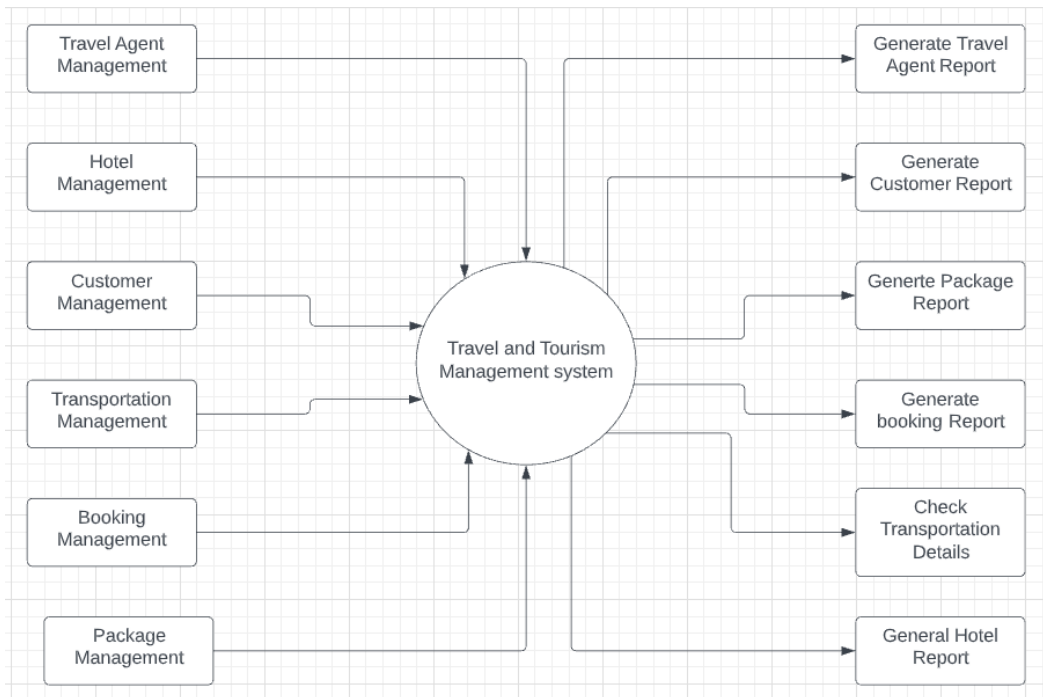


Fig 11: Level 2 DFD

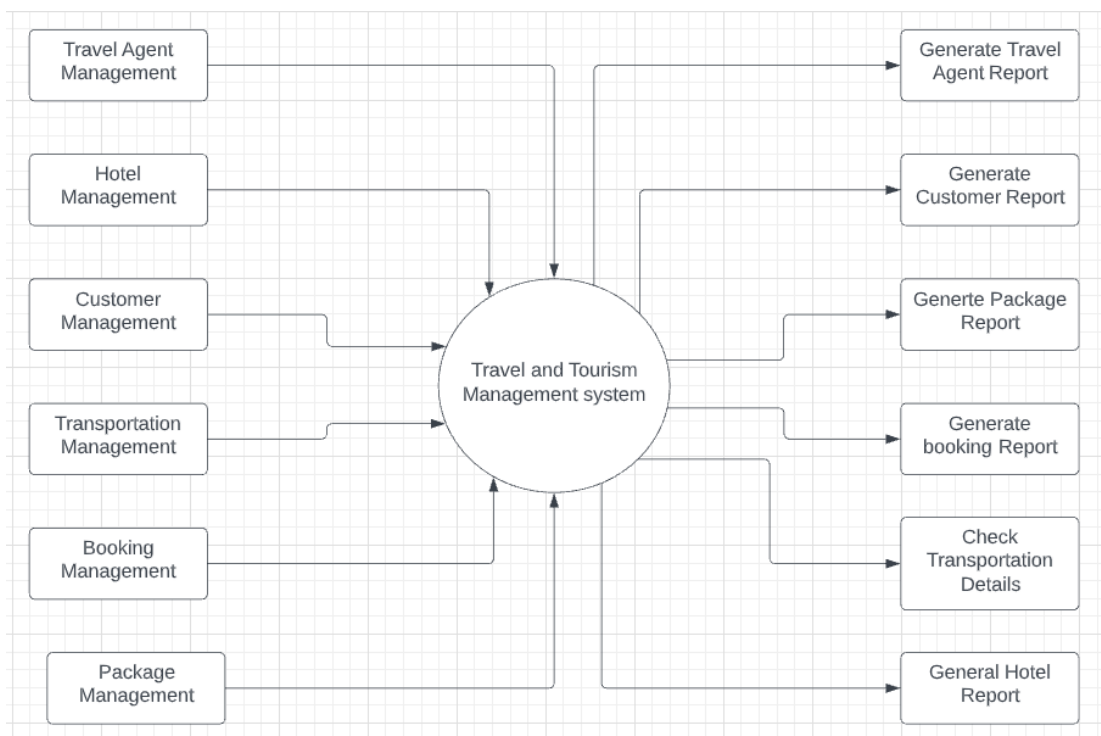


Fig 12: Level 3 DFD

### **3.3 Design Methodology**

- First, we will be creating an account registration and login interface for the users which will be synced across all modules.
- Then, we will create a very simple user interface for easy navigation among all the services we provide.
- On the home page, we will be getting all the users' necessary details regarding the complete tour and providing solutions accordingly.
- Starting with the travel we provide complete travel solution including flight or train bookings with all other modes.
- We also provide hotel/motel reservations for easy staying near any place.
- Our application also includes food services by nearby restaurants also providing delivery facilities.
- An e-commerce service will also be provided for all the essentials need for travel shopping. This will separately include different section for owners and shoppers.
- Complete tourism guide will also be provided including all the guide maps with user reviews.
- And, at last we will also try to add a feature which will send the final bill to the customers and will also try to send the payroll information to the employees.

### **3.4 Software Testing**

The Project is designed based on four fundamental values:

- The user interface and the interactions with the individuals has prime importance than processes and instruments.
- Building a Good Software require great documentation.
- Expanding the customer chain on a large scale is given more priority than negotiating contracts.

Testing Phase:

#### **1. Functionality Testing:**

Checking all the links on the webpage along with all the database functionalities, all the text forms submissions and much more.

Checking all different links such as:

- Checking all the redirectional page links from all the web pages to fulfil the request.

- Make sure all internal links are working.

## 2. Usability testing:

It implies the sequence of judging a page responsiveness i.e. checking its behaviour on human interaction and checking for all the flaws that needs to be corrected

- Easy learning
- Easy navigation between different sections
- General appearance

## 3. Interface testing:

The communication of the website must be checked continuously to established an undisturbed connection to the server and to all the necessary backend services. The server's working will all the integration must be checked on regular basis to ensure no hassle to the user.

### Performance Testing:

The web application must function with its full potential even in the presence of heavy traffic.

- Web Load Testing is an important part of web performance testing.
- Stress Testing on the Web

Test the app's performance with various internet connection speeds.

Web load testing is required to determine whether or not a large number of users are accessing or requesting the same page. Is the system capable of handling peak loads? The site should be able to handle a huge number of simultaneous user requests, significant amounts of data from users, multiple connections to the database, excessive demand on specific pages, and so on.

**Web Stress Testing:** When a system is stressed, it is stretched beyond its set boundaries. Web stress testing is used to break a website by putting it under stress and then observing how the system reacts to the stress and recovers from crashes.



## Chapter 4

### RESULTS / OUTPUTS

PROSHOP

Search Products... SEARCH

CART SIGN IN

### SIGN IN

Email Address

Enter email

Password

Enter password

SIGN IN

New Customer? Register

Fig 13: Sign-in page of the system

Firstly, user can see a login screen where user have to enter their account username and password for logging in to their account.[15] If the user is new and does not have any user-id by which he can log in, there will be an option for signup by which a user can create its user-id and password for its new account.

After successfully login the user is redirected to the Dashboard where he gets the option to use various functionalities offered by the app. The dashboard window will consist of an e-commerce, a hotel booking, a food ordering and, travel management along with a feature of local guide.

The user can navigate to any of these simply by just a single tap to the icon. The redirected page will be open for the user for simple proceeding of their requirements.

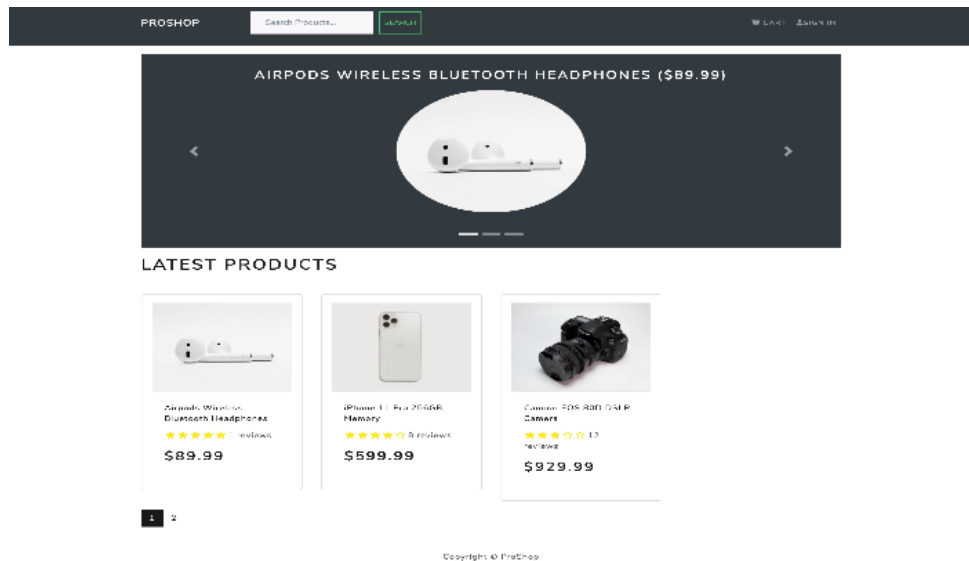


Fig 14: E-commerce preview

An e-commerce app provides a platform to the user where, he/she can purchase various products that are required during a trip or are necessary for travelling purposes. Also, user will now about the local market there but is need of some product urgently or wants to purchase some local goods or to compare the price of any product from the local market, all these things can be done by adding an e-commerce to the application.

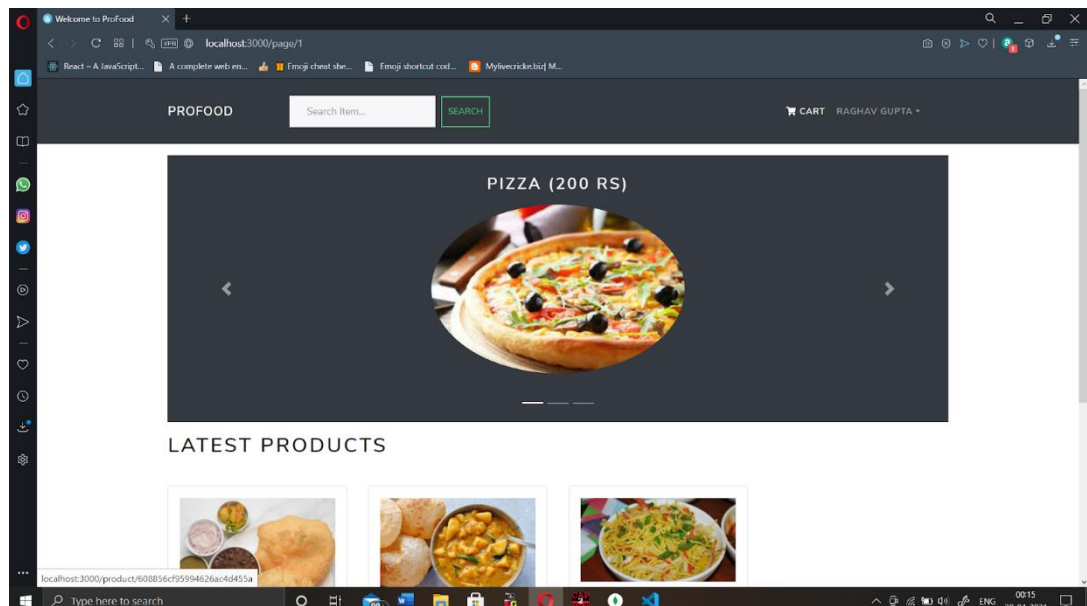


Fig 15: ProFood preview

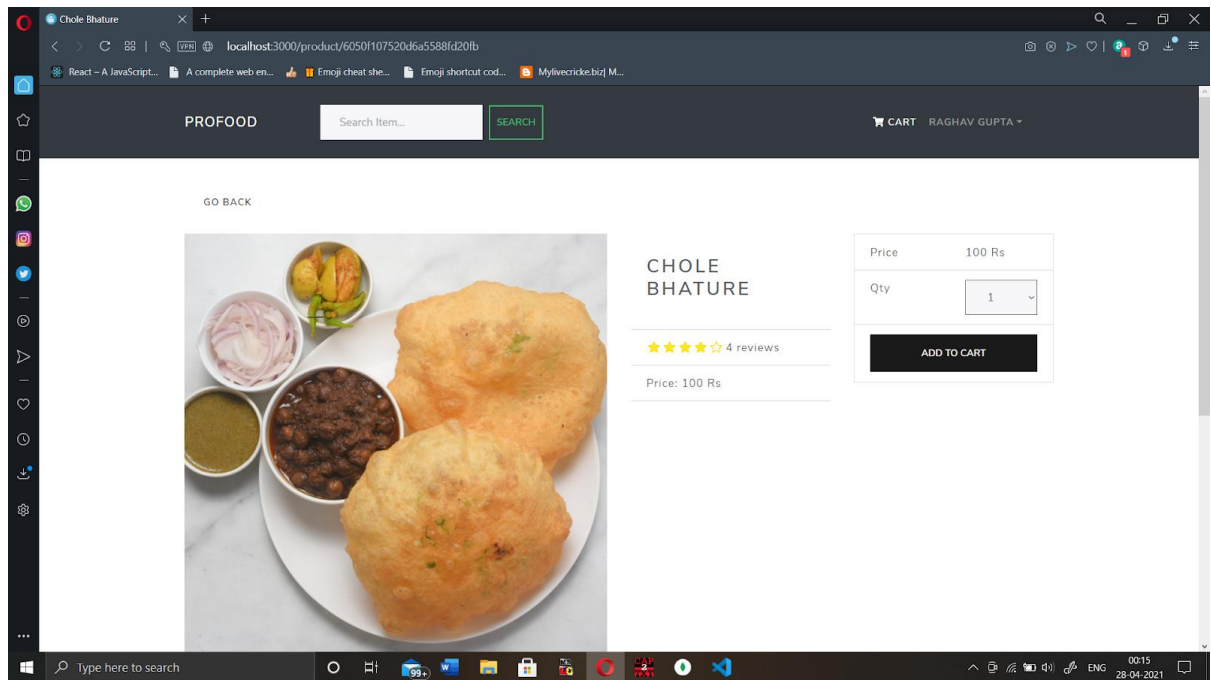


Fig 16: Cart Preview

The room booking or the hotel booking is one of the embedded features of the travel planning and management. Whenever a person plans to go on a trip the first thing that comes to his mind is booking a room for his/her accommodation.

Trip along with various other features also provides a facility to book an accommodation online for personal stay. The user can book a hotel or can opt for staying in a house. This could be simply understandable as a mixture of two accommodation websites oyo and Airbnb.

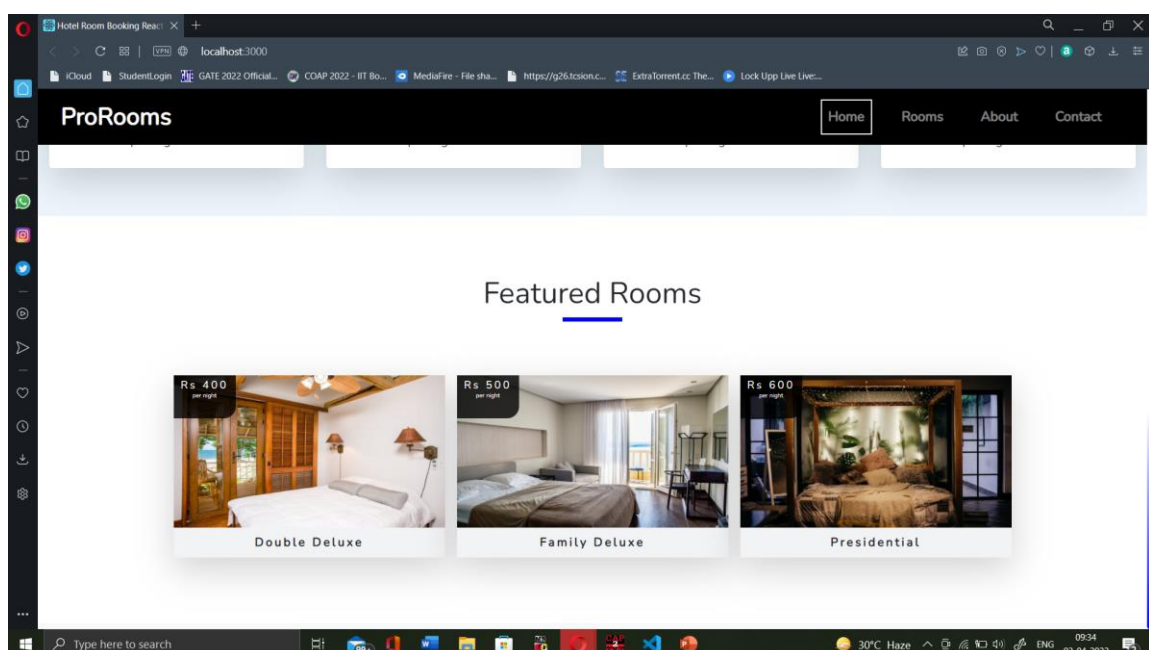


Fig 17: Preview for rooms facility provided



Fig 18: ProRooms Preview

Hotel booking is sometimes very crucial also as boarding an international flight or going to some places often require complete plan of your stay as a required thing. Thus, you can plan your logistics with trip in just few clicks. The merge of features from two trending website gives the advantages of both and cover their lacking from every aspect. Just like for some people privacy is a top concern along with necessary essentials and room service while for other this might not be an essential requirement in their trip as they can manage even without these luxuries and they are just in need of a place to stay at a reasonable price thus both these could be sorted out by our website.

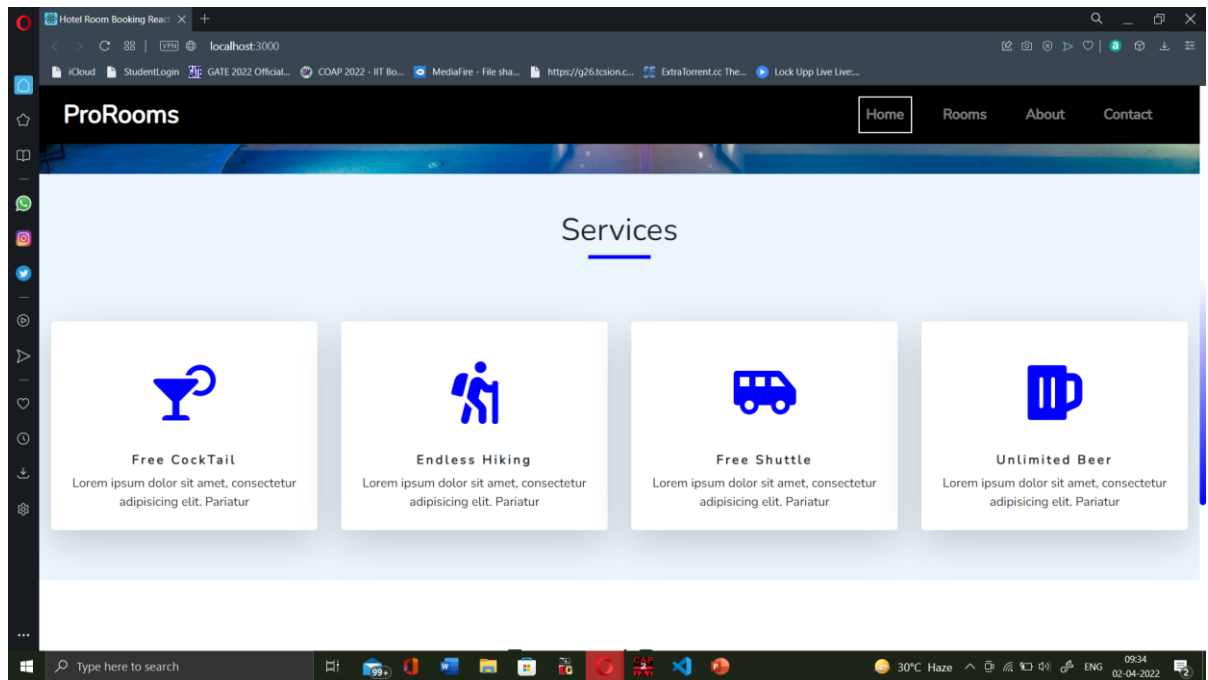


Fig 19: Services provided by us

All the facilities provided by the hotels can be listed on the website thus user can see all the welcoming features and facilities that is provided like free welcome drink, pickup and drop facilities etc., These services provide will create an extra add on for the user to book a better and suitable room for him. These features can enhance user experience on their stay thus on the basis of their stay they can rate their visit to the accommodation accordingly and this rating will be displayed on the website for the other users, thus other users can see user experiences and rating of that hotel and book a desired room for themselves. There are some other applications also, embedded in Trip like food ordering, travel planning management and, local guide which provides various facilities to the user which are necessary part in planning a tour. The user will be able to order local and various kinds of cuisine online by Trip which will help user to buy quality food at the place of their residence and at short delivery time user will be able to enjoy authentic local dishes. By Travel planner user can book and manage their travel at the unknown city and does not have to look for local transport organizers for planning their tour inside the city and everything could be preplanned at reasonable price. Thus, would not cause hustle at the time of trip. And the most interesting feature of Trip is the local guide which will allow a user to gain more and more knowledge about the local city. Thus, user will not face any difficulty at new place and will have some knowledge about that place. Also, the user will have a certain idea about the place and their local monuments, museum and other places where the traveler can visit and



have full enjoyment of the tour.



Fig 20: ProTravel Preview

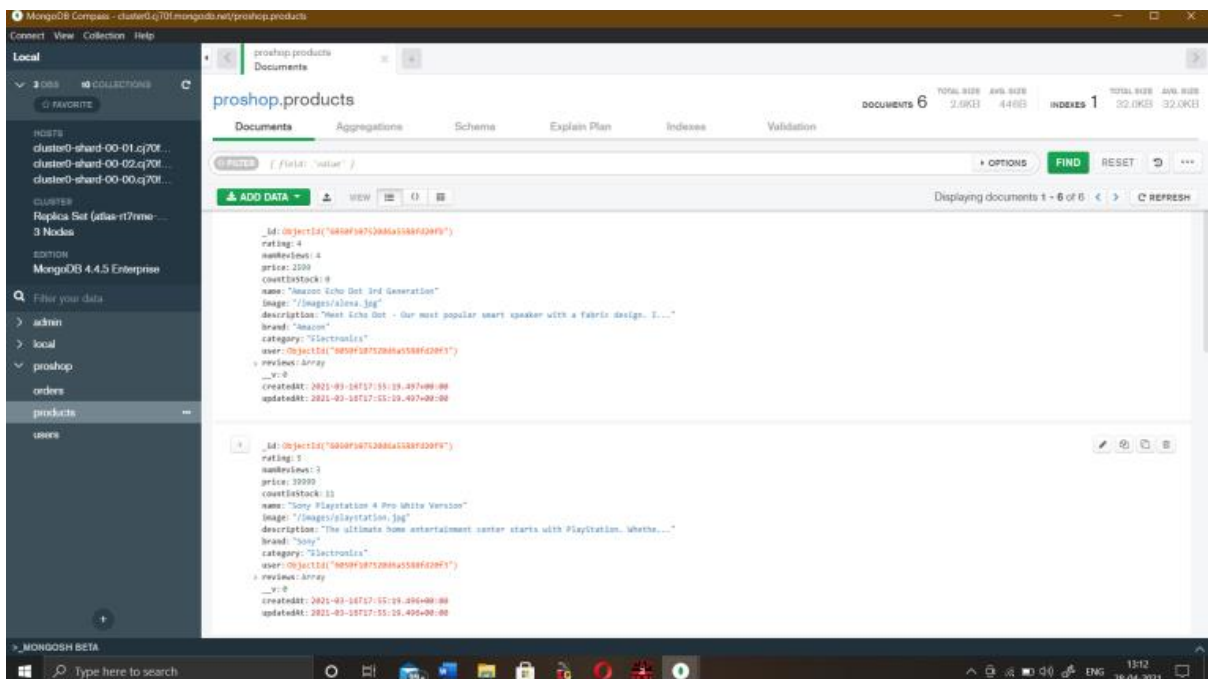


Fig 21: Database preview in MongoDB

All the databases are managed by the admin portal which can view and manage the data for both seller or business person as well as the consumer. All the database handling and processing is done in NoSQL and the software used for this whole management is MongoDB. We have used MongoDB atlas because it is the most reliable and durable

software and is trusted by many big organizations worldwide. All these three, admin, seller and, buyer is given different types of access to the database as seller can add stuffs whereas the buyer will have the option to add them to his cart and have a safe purchase. On the other hand, the admin is given full control to add, view, modify items as well as to manage and modify the account details of seller and buyer in the database.

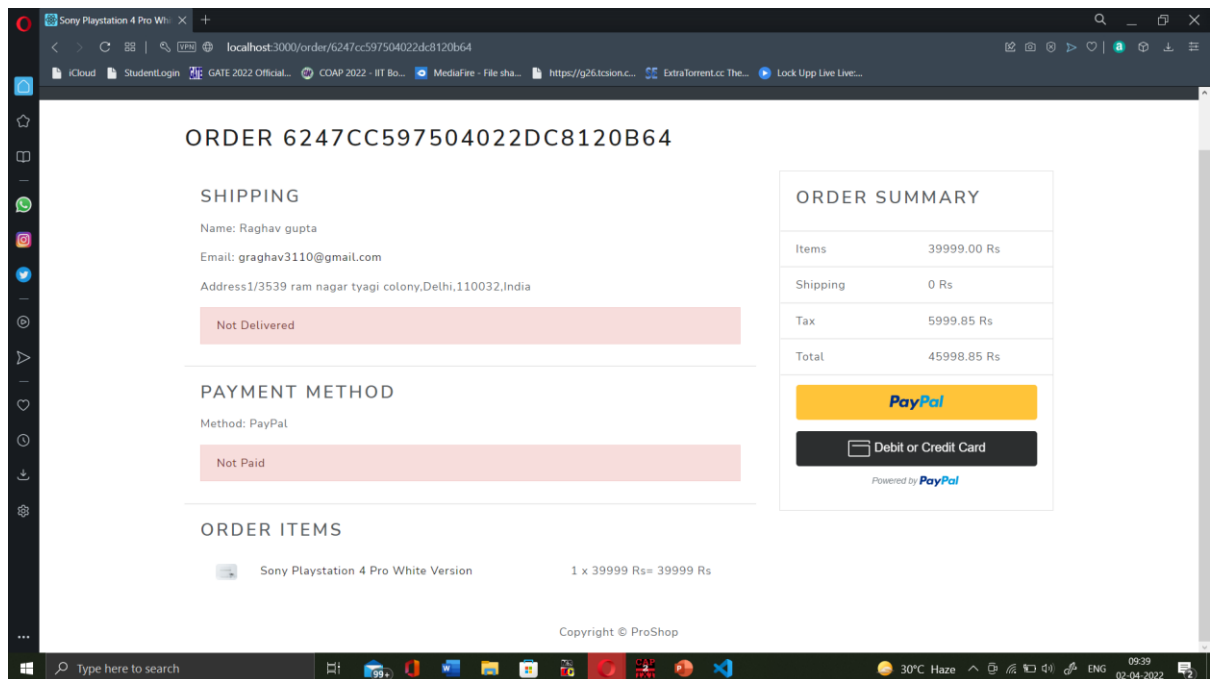


Fig 22: Checkout screen for the system

Fig 22, depicts the checkout screen for the user from where a user will eventually have an option to check total number of items in his/her shopping cart and thus he can do changes from there as per his needing and then finally can proceed for the billing and payment for the services.

The below Fig 23, of the software is the depiction of the payment gateway that we have used for the checkout and payments from the user. The paypal is one of the trustworthy and global used by us for this purpose.

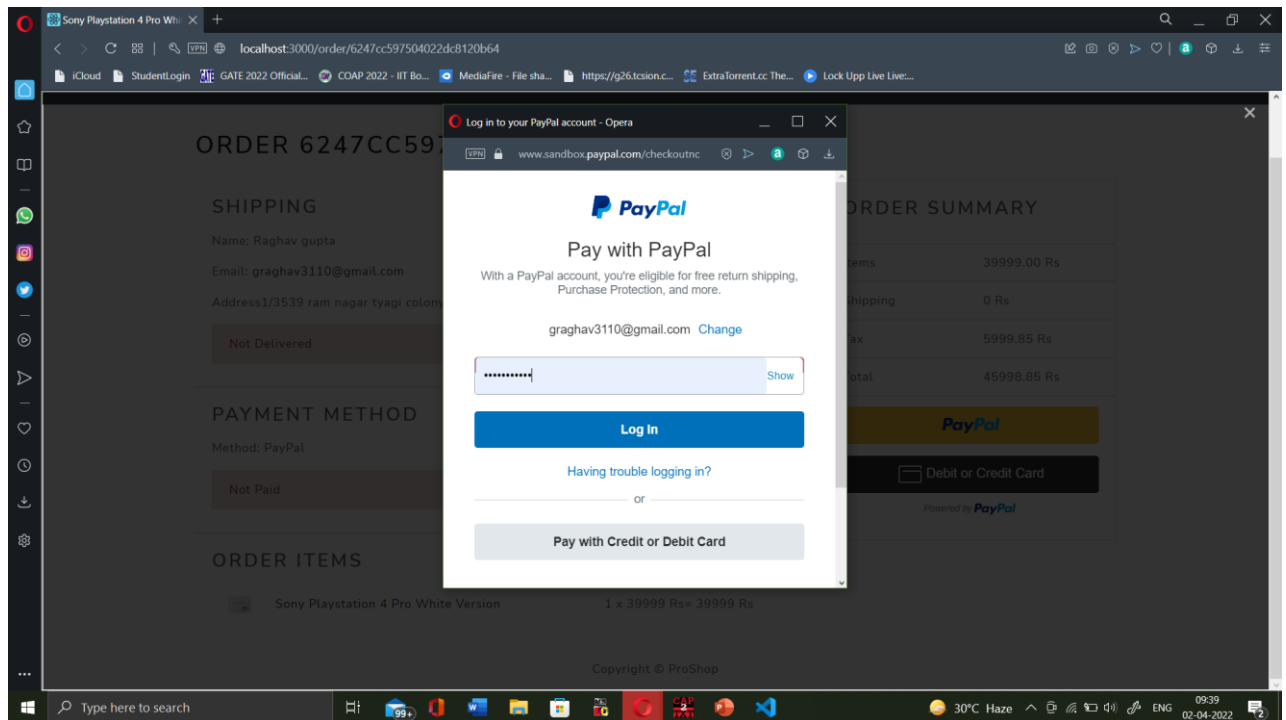


Fig 23: PayPal payment gateway

The user will just have to enter the details and login with paypal account for payments and there after will receive confirmation for the same. Fig 23 shows the processing screen of the paypal payment gateway processing.



## Chapter 5: Conclusion

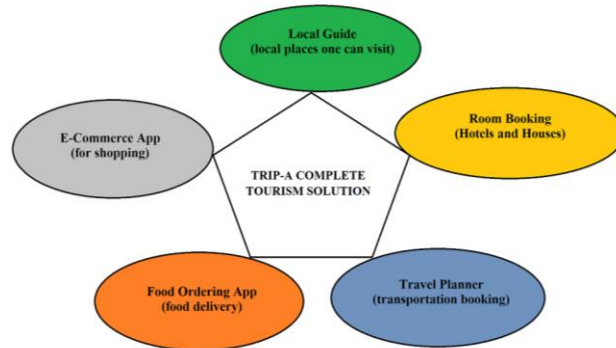


Fig 24: Combined plan system

The main eye-catching key point of the plan is its many in one functionality which offers a user many different facilities at a single platform. The user will be able to plan and manage all the necessary things during his visit to some place and for this he will not have to move to lot many websites and could be done at a single place. Another important and useful thing is that user will not have to take so many itinerary apps in his phone and just have to install this single one which also saves the phone space which could be utilized for some other purposes. The combination of mobile and web app will further solve this as if someone does not want to have an app in his phone as he occasionally does travel, then he can use the web version of the app and does all the same work from there as well.

### 5.1 Further Improvement: -

- Using AI for giving the most relevant products according to the searches done by the user.
- Showing and recommending the user for the products based on their previous searches.
- Embedding a module for local guide which can show the user nearby places to visit and things to do thus user will have an idea about the activities he can do at a new visited place.
- Providing user, a facility of maps for the clear knowledge of direction and will provide user to bookmark a place.
- Giving a user to book a cab for his regular commute.

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