MADHAV INSTITUTE OF TECHNOLOGY &SCIENCE

(A Govt Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Skill Based Mini Project
on
Tour Planner

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

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CERTIFICATE

This is certified that **Princy singhal(0901CA221046)** has submitted the project report titled **Tour Planner** under the mentorship of **Dr. Parul Saxena** (Professor), as the skills based mini project in 1st year of Master of Computer Application in Computer Science and Engineering from **Madhav Institute of Technology and Science, Gwalior**.

Dr. Parul Saxena
(Assistant Professor)
Computer Science and Engineering

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DECLARATION

I hereby declare that the work being presented in this project report, for the fulfilment of partial requirement of the skills based mini project (Tour Planner) in 1st year of Master of Computer Application in Computer Science and Engineering at **Madhav Institute of Technology & Science, Gwalior** is an authenticated and original record of my work under the mentorship of **Dr. Parul Saxena**, (Professor), MITS Gwalior.

I declare that I have not submitted the matter embodied in this report anywhere else.

Princy singhal
0901CA221046
2022-2024
Master of Computer Application
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ACKNOWLEDGEMENT

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I would sincerely like to thank my department, **Department of Computer Science and Engineering**, for allowing me to explore this project. I humbly thank **Dr. Manish Dixit**, Professor and Head, Department of Computer Science and Engineering, for his continued support during the course of this engagement, which eased the process and formalities involved.

I am sincerely thankful to my faculty coordinator. I am grateful to the guidance of **Dr. Parul Saxena**, (Professor), Computer Science and Engineering, for her continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.

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ABSTRACT

In today's fast-paced world, travel has become an integral part of our lives, offering opportunities for exploration, relaxation, and cultural enrichment. However, planning a trip can often be overwhelming and time-consuming, requiring extensive research, organization, and decision-making. To alleviate these challenges, the Tour Planner system has emerged as a comprehensive solution. Tour Planner is an website to assist users in efficiently planning their trips from start to finish. Travel and tourism management system is used to book a tour from anywhere in the India by a single dynamic website which will help the user to know about all the places and tour details in a single website. The main objectives of this website to know the package related to the trip and journey with best facility and current offer. Searching will be veryeasy. At a single click will be able to fetch the required data. This project is used to automate all process of travel and tourism, related to creation, booking and confirmation and user details. It isthe easiest platform for all the passengers to book easily and know all the details.

सार

आज की तेजी से भागती दुनिया में, यात्रा हमारे जीवन का एक अभिन्न अंग बन गई है, जो अन्वेषण, विश्राम और सांस्कृतिक संवर्धन के अवसर प्रदान करती है। हालाँकि, यात्रा की योजना बनाना अक्सर भारी और समय लेने वाला हो सकता है, जिसके लिए व्यापक शोध, संगठन और निर्णय लेने की आवश्यकता होती है। इन चुनौतियों को दूर करने के लिए टूर प्लानर सिस्टम एक व्यापक समाधान के रूप में उभरा है। टूर प्लानर एक वेबसाइट है जो उपयोगकर्ताओं को शुरू से अंत तक कुशलतापूर्वक अपनी यात्राओं की योजना बनाने में सहायता करती है। यात्रा और पर्यटन प्रबंधन प्रणाली का उपयोग एक ही गतिशील वेबसाइट द्वारा भारत में कहीं से भी टूर बुक करने के लिए किया जाता है जो उपयोगकर्ता को एक ही वेबसाइट में सभी स्थानों और दौरे के विवरण के बारे में जानने में मदद करेगा। इस वेबसाइट का मुख्य उद्देश्य यात्रा और यात्रा से संबंधित पैकेज को सर्वोत्तम सुविधा और वर्तमान प्रस्ताव के साथ जानना है। सर्च करना बहुत आसान हो जाएगा। एक क्लिक पर आवश्यक डेटा लाने में सक्षम हो जाएगा। इस परियोजना का उपयोग निर्माण, बुकिंग और पुष्टिकरण और उपयोगकर्ता विवरण से संबंधित यात्रा और पर्यटन की सभी प्रक्रियाओं को स्वचालित करने के लिए किया जाता है। यह सभी यात्रियों के लिए आसानी से बुकिंग करने और सभी विवरणों को जानने का सबसे आसान मंच है

Table of Contents

Title **Page No.**

Abstract. iv

सार……..……v

1 **Introduction**…….1

1.1. Recognition of need……1

1.2. Problem Identification ……..1

1.3. Strategies for determining information requirements…….1

1.4. Advantages……..2

2. **Feasibility study**……...3

2.1. Economic feasibility……...3

2.2. Technical feasibility…….3

2.3. Behavioral feasibility……...4

3. **Analysis**…….5

3.1. Table structure……..5

3.2. DFD……..7

3.3. ER Diagram…….10

4 **Coding/Testing**……....11

4.1 Unit Testing……..……11

4.2 Integration Testing……12

4.3 Validation Testing…….12

5 **Implementation**…….13

6 **Sample forms &Reports**……..……14

7 **Conclusion**……..21

1. INTRODUCTION

The online tour planner system consists all the details about your tour. Our mission is to helpyou create unforgettable travel experiences that meet your unique needs and desires.

Our tour planner is design to make your travel planning experience simple, efficient andenjoyable.

1.1 Recognition of need:

Planning a trip can be an exciting experience, but it can be overwhelming and time consuming, especially if you are unfamiliar with the destination or have a busy schedule. Recognizing the need for a tour planner can help alleviate the stress of trip planning and ensure that you have a well-planned and enjoyable travel experience. If someone is travelling to new destination and has limited knowledge of the place, they may need the assistance of a tour planner who can help them with information.

1.2 Problem identification:

As a tourist, it is difficult to plan the travel itinerary and get everything pre planned without any hassle. So we intend to provide them a platform which solves this problem and meet the tourist's needs. Hence, the Tour Planner a website is made which provides them various itinerary options (tour packages) to choose from based on their budget, number of days, destination.

To build a platform where user can choose from various available options of tour packages based on affordability, flexible pricing options, personalized recommendations.

Some major functional requirements are as follows:

a. User registration and login Package details such as price, destination location, images.
b. Search functionality to find specific packages.
c. Secure payment system.
d. Booking and history.
e. Rating and feedback system for tourists.
f. Admin panel to manage packages, places, and user accounts.

1.3 Strategies for determining information requirements:

a. Analyzing social media can be a great source of information to determine the latest travel trends, popular travel destination and activities conduct online research to see what types of tour packages already exist for travelers what features they offered such as :
   www.travelplanner.co.in
   www.adotrip.com
b. Conducting surveys can be used to collect information on the preferences and needs of travelers for this we have consulted with local tourism boards for gathering information on travel destinations.

Conducted survey-

i. Gts tour and travels	Near masjid Thatipur Gwalior (969113009)
ii. Neeraj travles and tours	Kesar bagh colony mela (7512446991)

c. Book preference:- We have gathered information and requirements with the help of travel book they are-
   i. The essential India travel guide by Mohan Kapoor which is available on Amazon platform.
   ii. Where to Go When; Unforgettable trips for Every Month by DK which is available on store as well as on flipkart.

1.4 Advantages:

a. Save time: Tour planner help travelers save time by handling all aspects of travel planning including transportation. This allow travelers to focus on enjoying the trip rather than worrying.
b. Safety concerns: If someone is travelling to a place with safety concern our tour planner ensure safety and security of the travelers during the tour which include arranging appropriate transportation and providing guidance on avoiding risky activities.
c. Budget constraints: Travelling can be expensive and may people have a limited budget for their trips, so tour planner can negotiate discount and special deals which can result in cost saving for travelers. For this we will provide special 20% discount for family trip.

2. Feasibility study

The purpose of this project to build an application program, which aims to help tourists plan their trips more easily and efficiently.

2.1 **Economic Feasibility**:

The economic feasibility of a tour planner depends on several factor such as the target market, pricing strategy, marketing efforts and operating costs.

Equipment costs-

S.NO	TITLE	AMOUNT
1	Hardware cost	₹ 1,500/-
2	Software cost	₹ 1,500/-
3	Documentation cost	₹ 2,000/-
4	Backend developer	₹ 2,500/-
5	Database Administrator	₹ 2,000/-
6	Frontend developer	₹ 2,000/-
	TOTAL	₹11,500/-

Completion time: 60 working days.

2.2 Technical Feasibility:

Technical feasibility of a tour planner involves accessing whether the necessary technology and resources are available to develop, operate and maintain the platform.

Hardware Requirements-

S.NO	TITLE	DETAILS
1	RAM	4 GB
2	Processor	Intel core i5 11th generation
3	Hard disk	512 GB SSD, 1TB
4	NIC Card	For internet connection

Software Requirements-

S.NO	TITLE	DETAILS
1	Operating system	Window 11
2	Database	MY SQL
3	Browser	Chrome, Edge, Mozilla and others.
4	Frontend	React, Javascript
5	Backend	Node.js
6	VS code	Coding purpose

2.3 Behavioral Feasibility:

The project aims at maximizing the customer friendliness. The customer can easily use the Website as it does not need any guidance. The following measures are being taken to ensurethe same:-

a. The platform will be as much easy to use as possible, convenient and provide experience
the customer.
b. To maintain customer engagement , tour planner platform provides features such as customer review and rating, forum for discussion and social media integration.
c. Customer can give feedback by which admin can make changes and improvement based
on customer suggestions. This can help build trust and improve retention.

3. ANALYSIS

3.1 Table structure

a. Admin:

S.NO	FIELD NAME	FIELD TYPE	CONSTRAINTS	DESCRIPTION
1	admin_email	varchar(100)	primary key	hold admin email
2	admin_mobile_ no	int		holds admin mobile no.
3	admin_name	varchar(50)		holds admin name
4	admin_p assword	varchar(100)		holds admin password
5	pictures	text		holds pictures

b. Customer details:

S.NO	FIELD NAME	FIELD TYPE	CONSTRAINTS	DESCRIPTION
1	customer_id	int	primary key	holds unique id of customer
2	customer_mobile _no	int		holds customer mobile number
3	customer_name	varchar(50)		holds customer name

a. Packages:

S.NO	FIELD NAME	FIELD TYPE	CONSTRAINTS
1	package_id	int	primary key
2	state_id	int	foreign key
3	packages_name	varchar (25)	
4	duration	varchar(25)	
5	description	varchar(400)	
6	price	varchar(10)	
7	logo	text	

b. Booking:

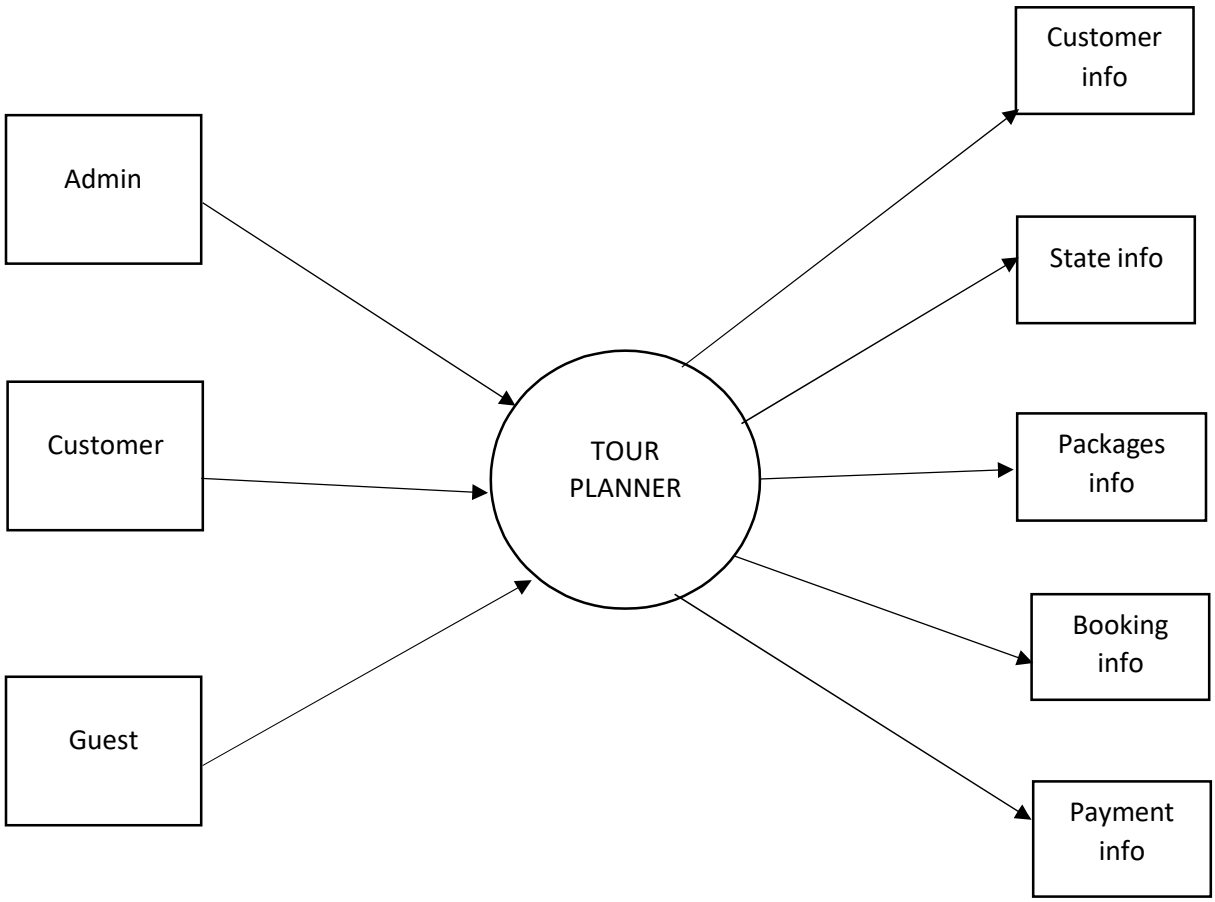
S.NO	FIELD NAME	FIELD TYPE	CONSTRAINTS
1	booking_id	int	primary key
2	user_name	varchar(50)	
3	email_address	varchar(100)	foreign key
4	mobile_number	int	foreign key
5	date_of_travel	varchar(25)	
6	travel_count	varchar(20)	
7	user_address	vachar(100)	

c. State:

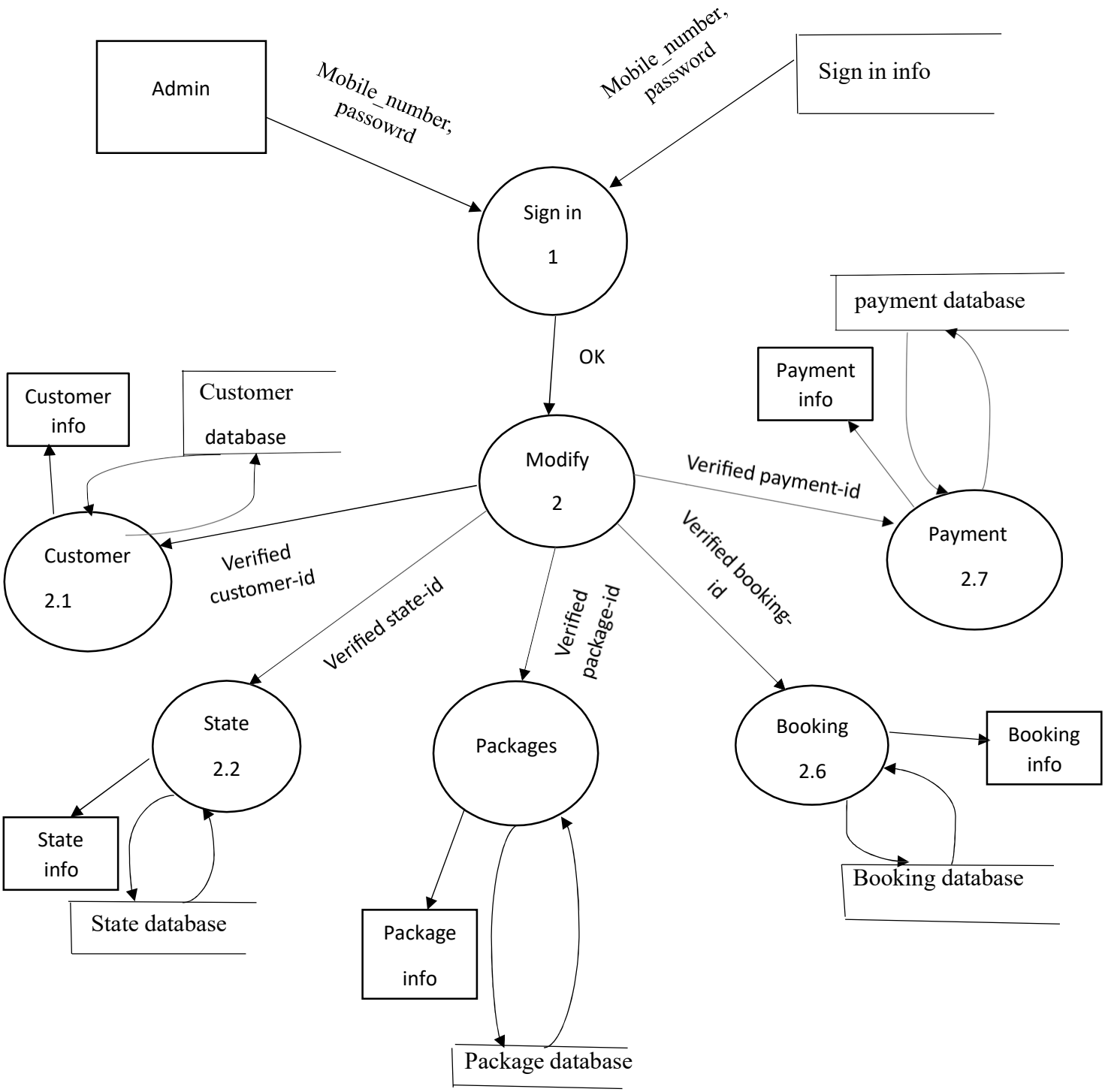
S.NO	FIELD NAME	FIELD TYPE	CONSTRAINTS
1	state_id	int	primary key
2	state_name	varchar(20)	
3	image	text	

3.2 DFD:

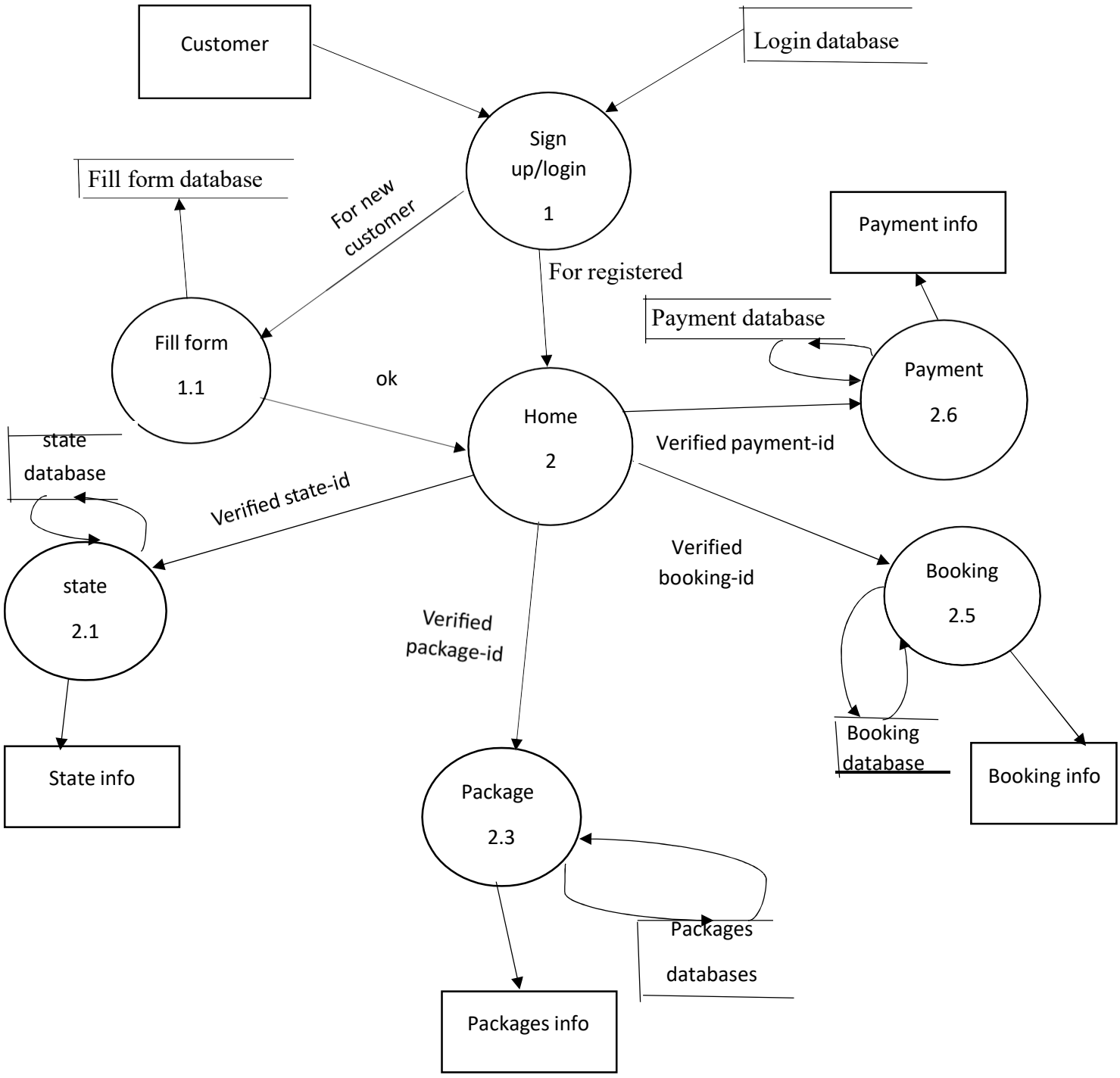
Level – 0 DFD:-



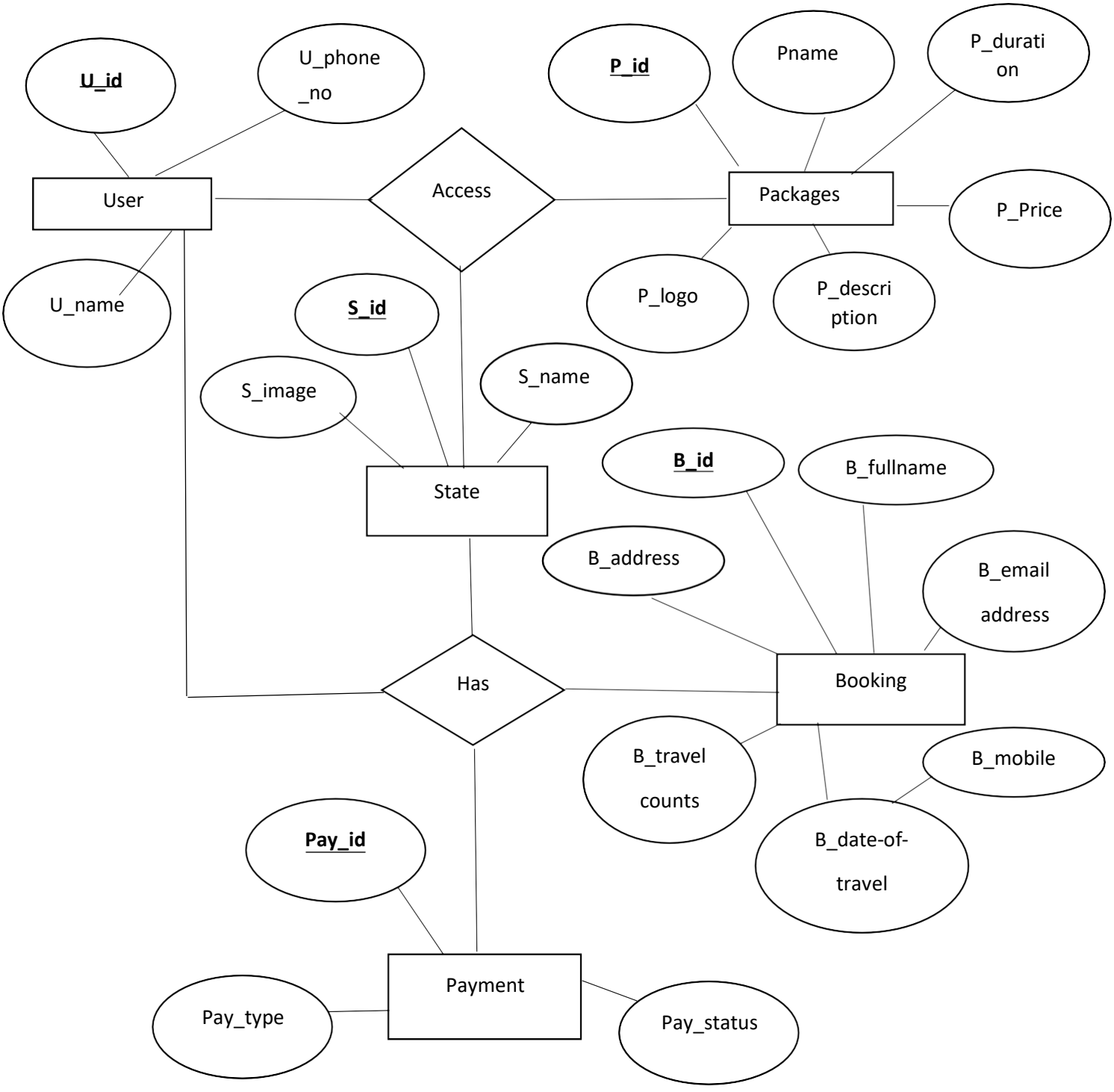
Level – 1 DFD for Admin :-



Level – 2 DFD for customer:-



3.3 ER-DIAGRAM:



4. Coding/ Testing:

4.1 Unit testing:

We perform unit testing on each and every smallest unit of the developed website individually to check its working. We used test data to perform the testing. We try possibly each and every type of inputs to check their corresponding outputs, and its related working. We performed these tests on user login by entering number and OTP will be generated in console. We also tested the two modules individually viz. admin module and user module.

TEST CASE ID	TEST SCENARIO	TEST STEPS	TEST DATA	RESULT
001	Admin login	a. open admin login website b. admin can add /modify/delete the packages.	On entering wrong data it shows invalid	Admin is able to login and add /modify/ delete the packages successfully.
002	User login	a. open website b. click on login button	User entered his number to get registered	User is able to select packages. Data is added to the user table.
003	Package	a.open website b. click on login c.user will select state and package	a.User will have various choices to select the packages.	Package will be selected.
003	Booking	a. open website b. click on login button c. user will select state and packages. d. click on booking button, a form for will be generated for user to fill the details.	a. (in working mode)	Booking details successfully stored in the database.

004	Payment	a. open website b. click on login button c. user will select state and packages. d. click on booking button, a form for will be generated for user to fill the details. e. select type of payment and make payment.	a. If user entered wrong online payment details, payment will be declined.	Payment done successfully and booking is confirmed.

4.1 Integration Testing:

We also performed integration testing on this website. For this testing we integrated all the individual units, and then checked the working of each module with every other module. We integrated the admin, user, packages, booking modules and other homepage functionalities as a complete webapp to check its overall working.

4.2 Validation testing:

We also performed validation testing. Three tests are performed on the final design that validates the ability of the system to operate as specified. We perform these tests to check whether the student was able to add products, and sign in properly. Also we checked whether or not admin was able toview student details, product details and edit these.

i. **Admin login-** Admin can login and perform privileged operations on the website.

ii. **User login** - user can login themselves, and no registered user can re-register themselves.

iii. **Packages**- admin can add/ delete/ modify packages only after admin logging in the websiteand user can select packages according to their planned trip.

iv. **Booking** – user can book their trip by selecting packages according to their need and admincan view all the bookings.

v. **Payment** - user can make payment and admin can check payment status and booking will be confirmed.

5. Implementation:

Firstly, we need to install some IDE softwares for implementing our project which are as follows: -

5.1. Visual Studio Code:-

a. Go to the official Visual Studio website: https://visualstudio.microsoft.com/downloads/
b. Click on the "Download" button for the version of Visual Studio you want to install.
c. Choose the components you want to install, such as languages, frameworks, and tools.
d. Click on the "Install" button to start the installation process.
e. Follow the installation wizard and select the options that suit your needs.

5.2. MySQL Workbench:-

a. Go to the official Go to the official MySQL Workbench website:
https://dev.mysql.com/downloads/workbench/

b. Select the appropriate version of MySQL Workbench for your operating system.
c. Click on the "Download" button to start the download.
d. Once the download is complete, run the installer.
Follow the installation wizard and select the options that suit your needs.

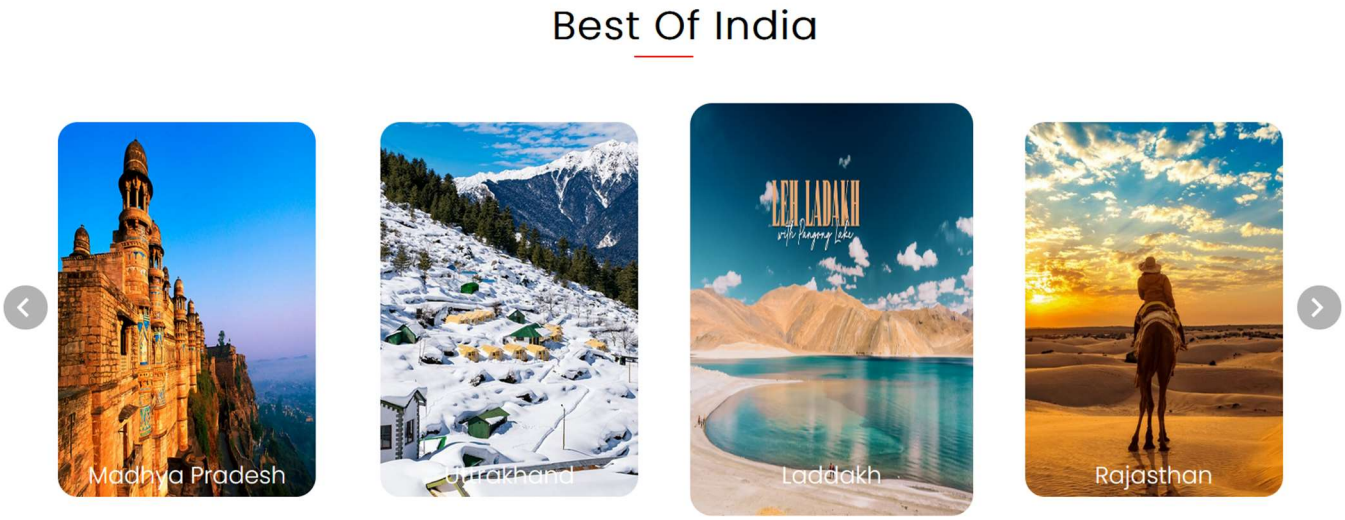
5.3. NodeJS:-

a. Go to the official Node.js website: https://nodejs.org/en/download/
b. Select the appropriate version of Node.js for your operating system (e.g., Windows, macOS, or Linux).
c. Click on the "Download" button to start the download.
d. Once the download is complete, run the installer. Follow the installation wizard and select the options that suit your needs.
e. Once the installation is complete, you can open a terminal or command prompt and type node -v to check if Node.js is installed correctly. This should display the version of Node.js that you just installed.

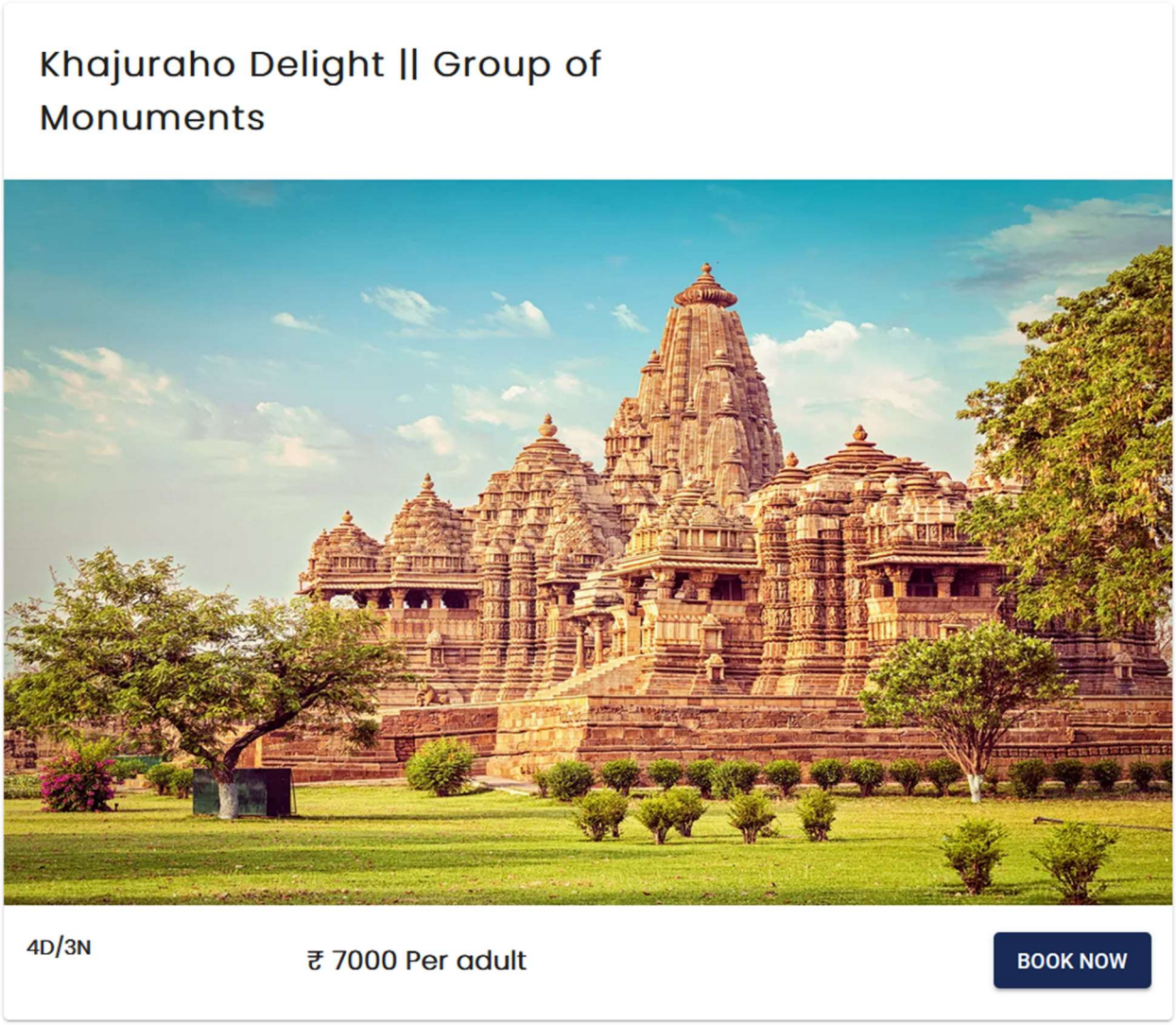
6. Sample Forms & Reports:

6.1 Website view

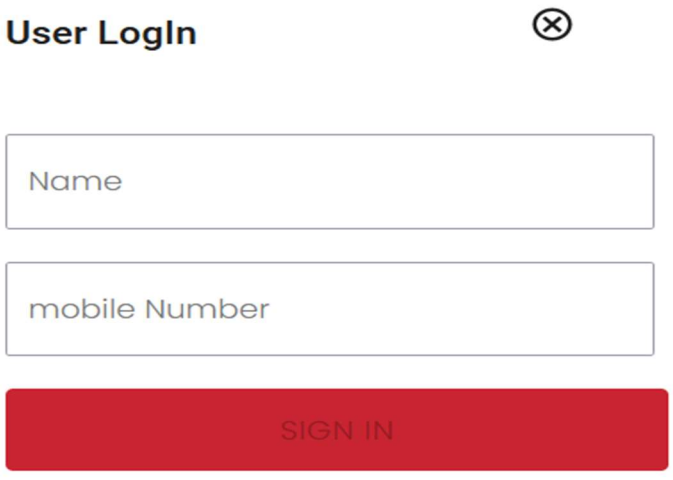
6.2 States interface



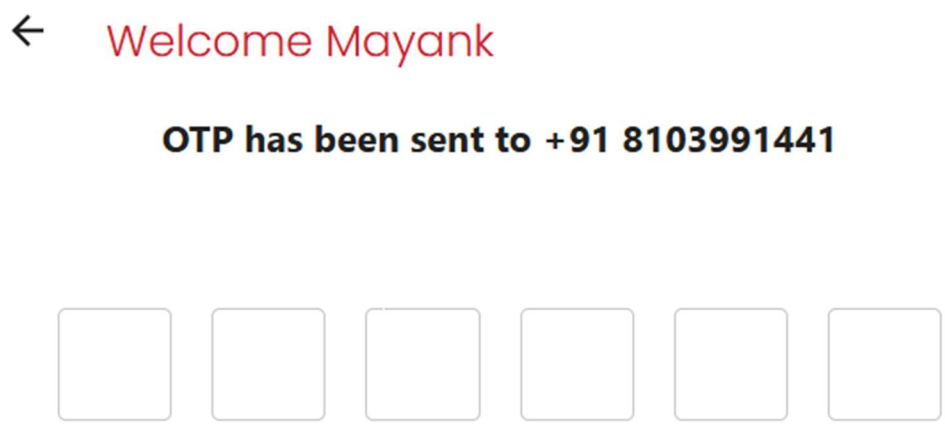
6.3 Packages



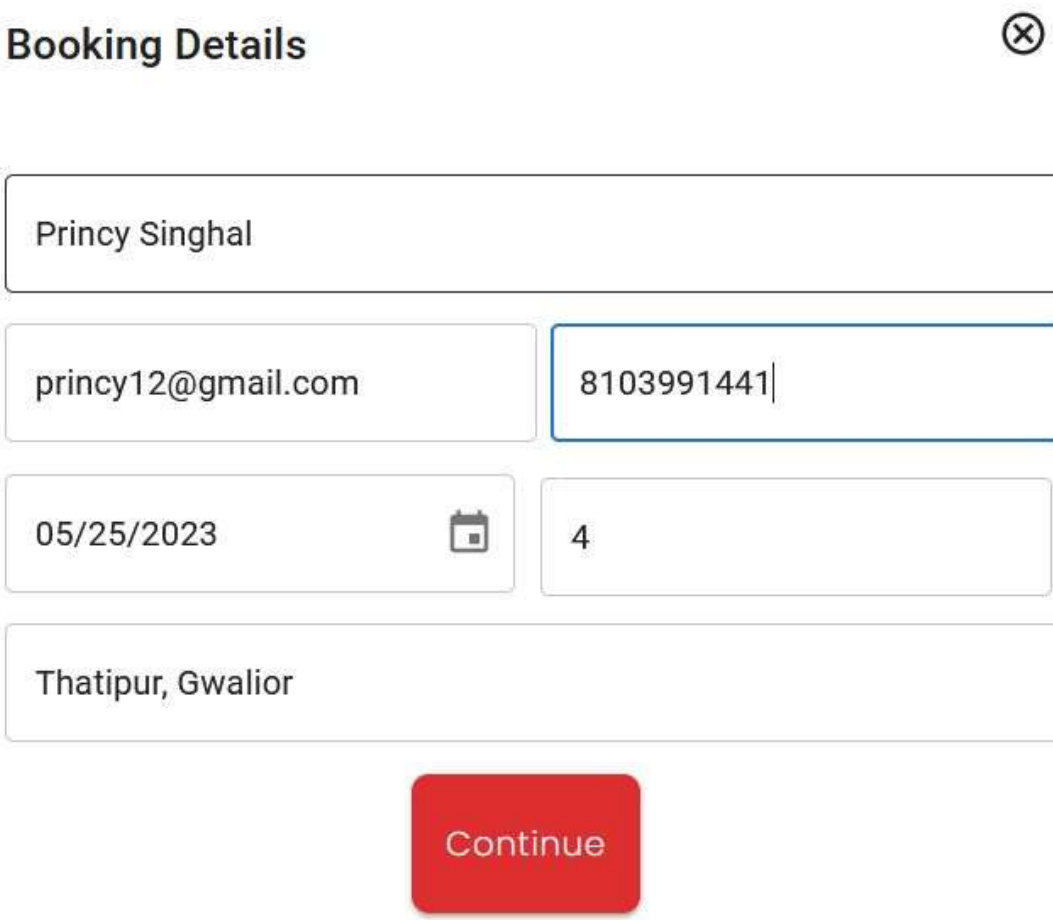
6.4 a) User login form



b) Login OTP

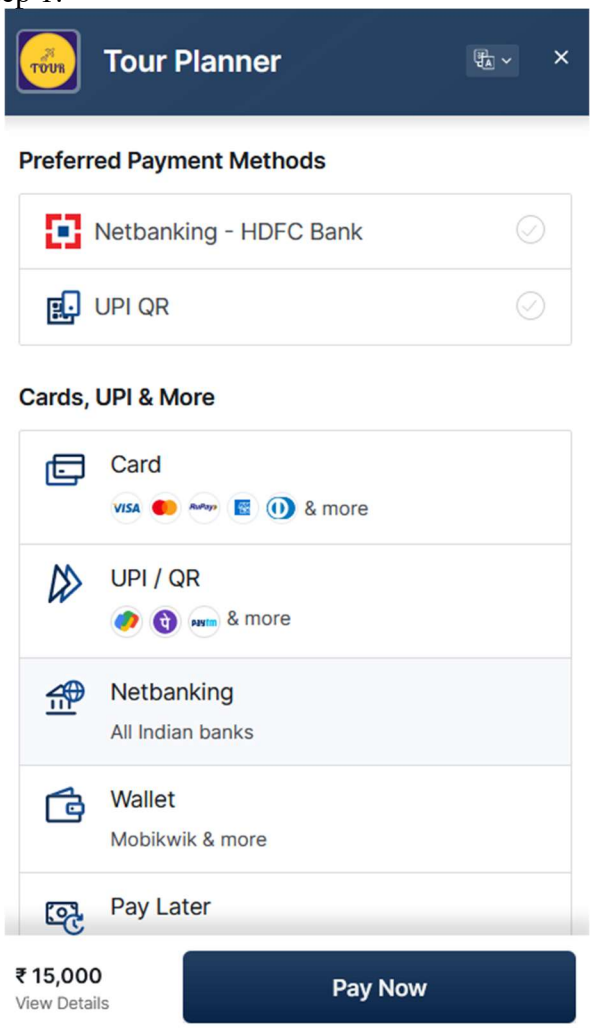


6.5 User booking form

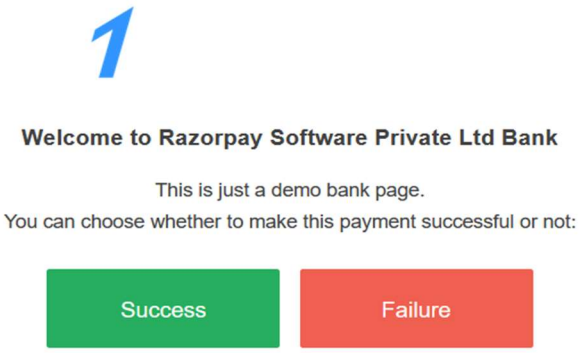


6.6 Payment

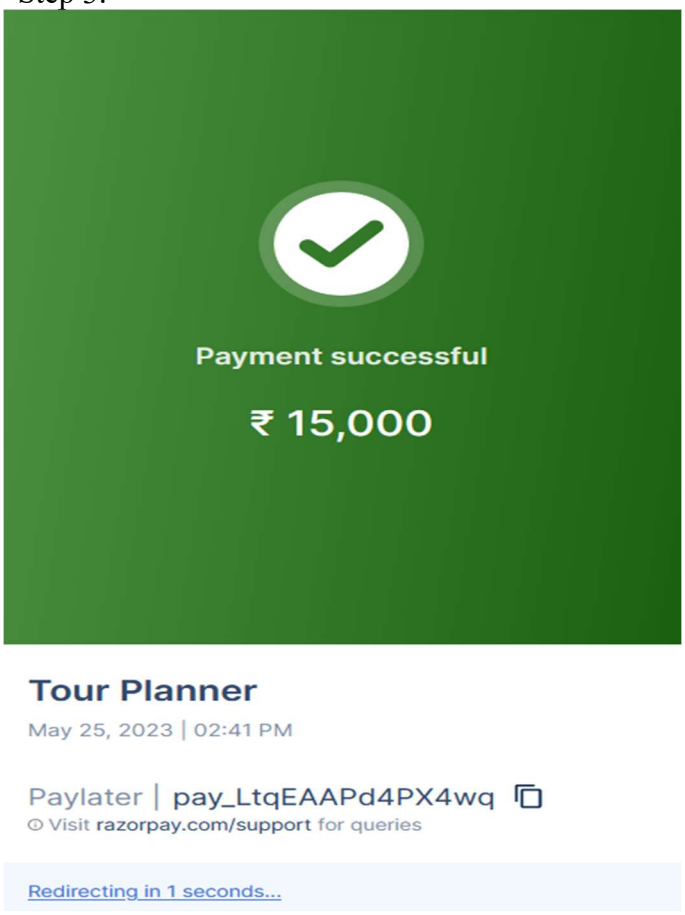
Step 1:



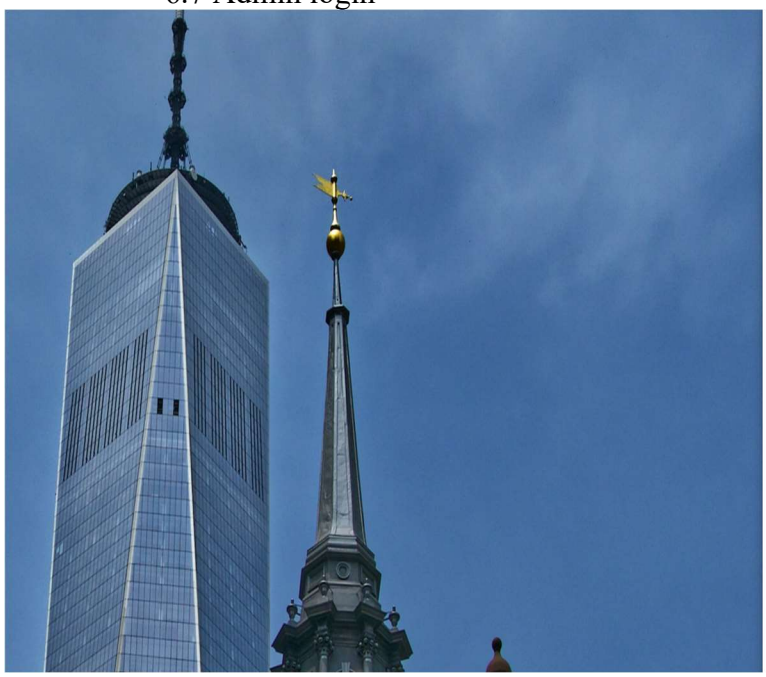
Step 2:

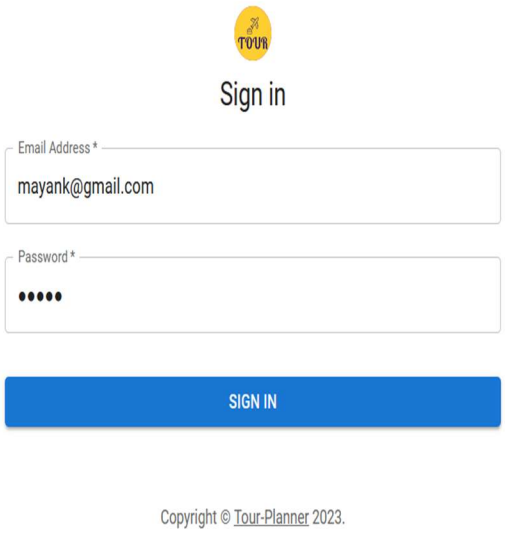


Step 3:

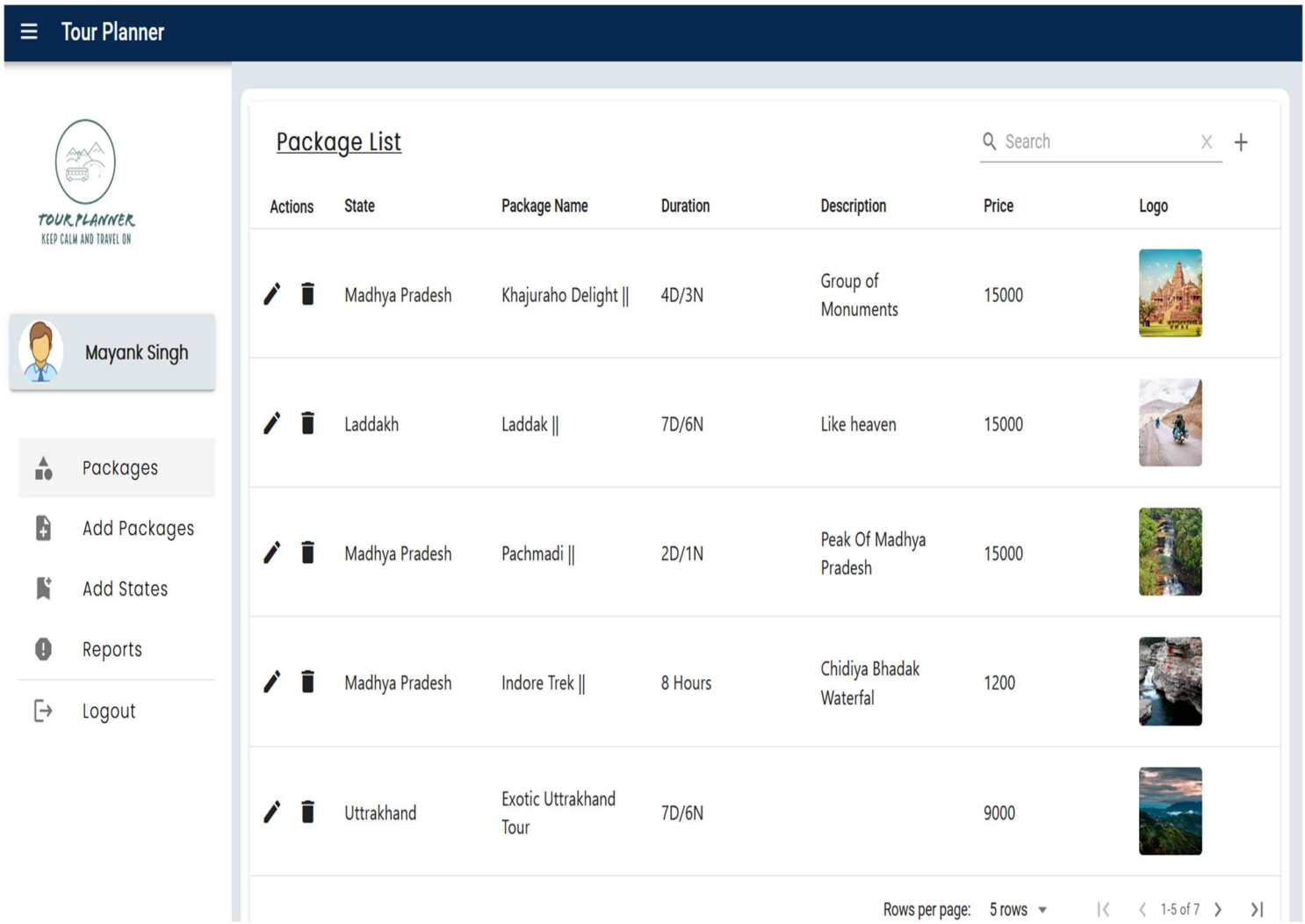


6.7 Admin login

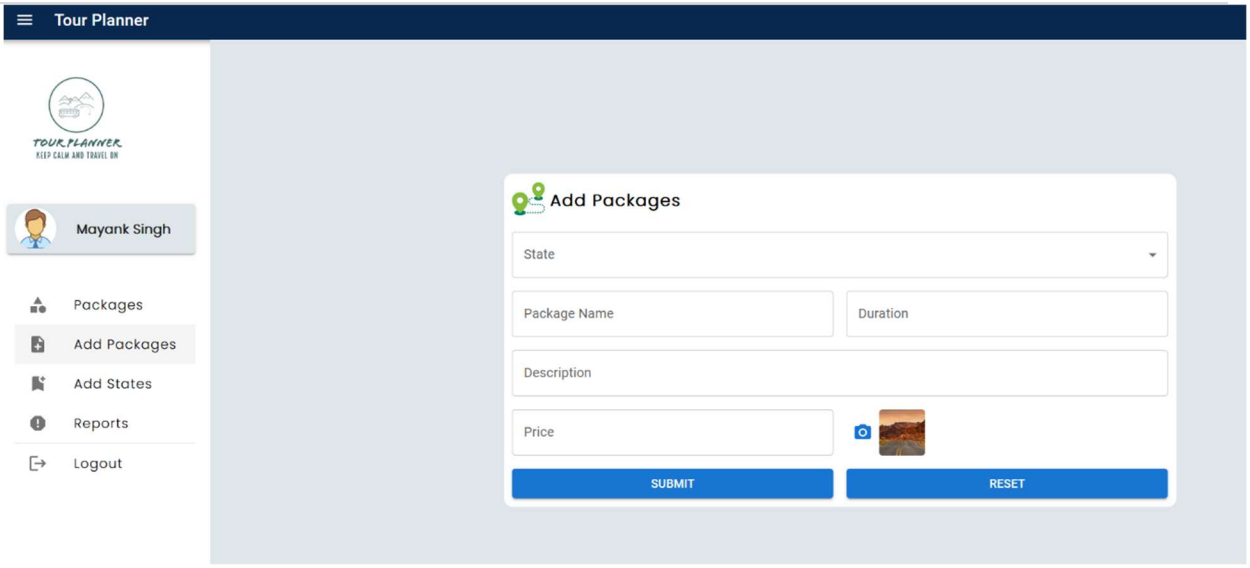




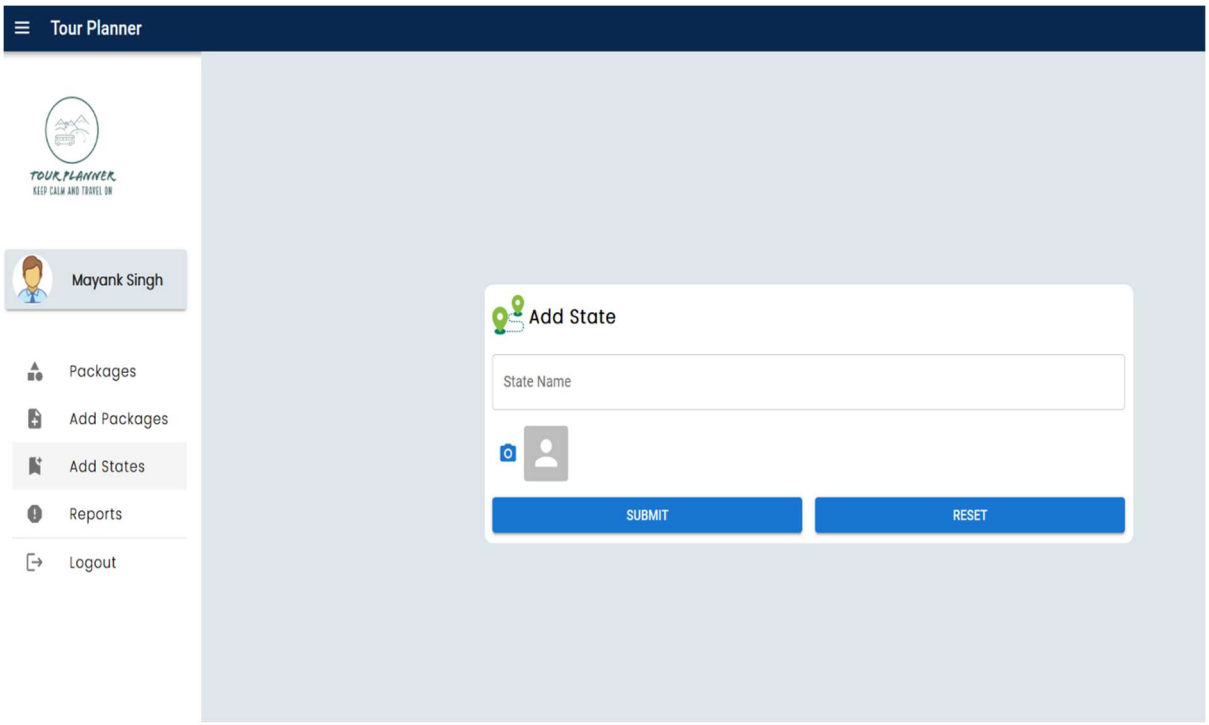
6.7 Admin Dashboard



6.8 Add packages



6.9 Add state


Tour Planner
TOUR PLANNER
KEEP CALM AND TRAVEL ON
Mayank Singh
Packages
Add Packages
Add States
Reports
Logout
Add State
State Name
SUBMIT
RESET

7. Conclusion

Today people travel for range of experience like staycations, voluntourism ,babymoons and bleisure. So, tour planner is a kind of website which will provide you the most convenient form of planning a trip and it is quite spontaneous.

This web application is well design and user friendly which is easy to use for the customer with clear details regarding packages, bookings, payments and services. It also concluded that the system's performance is satisfactory and required output is generated. Thus, the system provides and easy way to automate all the functionalities of consumption. If this website is implemented in some consumption it will be helpful. The project can be further enhanced, so that the website works in a very attractive and useful way as compared to the present. It is concluded that the website works well and meets the needs. The website is tested very well and errors and debugged properly. It also serves as sharing files for valuable resources.