1. **INTRODUCTION**

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

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

* 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. **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:

* 1. User registration and login Package details such as price, destination location, images.
  2. Search functionality to find specific packages.
  3. Secure payment system.
  4. Booking and history.
  5. Rating and feedback system for tourists.
  6. Admin panel to manage packages, places, and user accounts.
  7. **Strategies for determining information requirements:**

1. 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](http://www.travelplanner.co.in)

[www.adotrip.com](http://www.adotrip.com)

1. 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)

1. 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. **Advantages:**

1. 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.
2. 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.
3. 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.
4. **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 | ₹ 3,000/- |
| 2 | Software | ₹ 2,000/- |
| 3 | Documentation cost | ₹ 2,500/- |
| 4 | Backend developer | ₹ 2,500/- |
| 5 | Database | ₹ 1,500/- |
|  | 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 |

Software Requirements-

|  |  |  |
| --- | --- | --- |
| S.NO | TITLE | DETAILS |
| 1 | Operating system | Window 11 |
| 2 | Database | MY SQL |
| 3 | VS code | Coding purpose |
| 4 | Frontend | React, Javascript |
| 5 | Backend | Node.js |

2.3 **Behavioral Feasibility:**

The project aims at maximizing the customer friendliness. The customer can easily use the

Website as it doesnot need any guidance. The following measures are being taken to ensure

the same:-

1. The platform will be as much easy to use as possible, convenient and provide experience

the customer.

1. To maintain customer engagement , tour planner platform provides features such as

customer review and rating, forum for discussion and social media integration.

1. Customer can give feedback by which admin can make changes and improvement based

on customer suggestions. This can help build trust and improve retention.

1. **ANALYSIS**

**3.1 Table structure**

a. Admin:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.NO | FIELD NAME | FIELD TYPE | CONSTRAINTS | DESCRIPTION |
| 1 | Admin-email | Varchar | Primary key | Hold admin email |
| 2 | Admin-mobile-no | Varchar |  | Holds admin mobile no. |
| 3 | Admin-name | Varchar |  | Holds admin name |
| 4 | Admin-password | varchar |  | 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 | varchar |  | Holds customer mobile number |
| 3 | Customer-name | varchar |  | Holds customer name |

a. Packages:

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FIELD NAME | FIELD TYPE | CONSTRAINTS |
| 1 | Package-id | Int | Primary key |
| 2 | State-id | Varchar | Foreign key |
| 3 | Packages-name | Varchar |  |
| 4 | Duration | Varchar |  |
| 5 | Description | Varchar |  |
| 6 | Price | Varchar |  |
| 7 | Logo | Text |  |

b. Booking:

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FIELD NAME | FIELD TYPE | CONSTRAINTS |
| 1 | Booking-id | Int | Primary key |
| 2 | User-name | Date |  |
| 3 | Email-address | Int | Foreign key |
| 4 | Mobile-number | Int | Foreign key |
| 5 | Date-of-travel | varchar |  |
| 6 | Travel-count | varchar |  |
| 7 | User-address | Int |  |

c. State:

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FIELD NAME | FIELD TYPE | CONSTRAINTS |
| 1 | State-id | Int | Primary key |
| 2 | State-name | varchar |  |
| 3 | Image | Text |  |

**3.2 DFD**

Level – 0 DFD:-

Customer info

Guest

State info

Admin

TOUR PLANNER

Customer

Packages info

Booking info

Payment info

Level – 1 DFD for Admin :-

Admin

Sign in

1

Sign in info

verify

payment database

OK

Customer info

Booking

2.6

State

2.2

Booking info

Payment

2.7

Modify

2

Payment info

Customer

database

Verified payment-id

Customer

2.1

Verified customer-id

Verified booking-id

Verified package-id

Verified state-id

Packages

State info

Booking database

Package

info

State database

Package database

Level – 2 DFD for customer:-

Customer

Home

2

Sign up/login

1

Login database

Fill form database

Payment info

For new customer

For registered

Packages info

State info

Payment

2.6

Booking

2.5

state

2.1

Fill form

1.1

ok

Payment database

state database

Verified payment-id

Verified state-id

Verified booking-id

Verified package-id

Booking database

Packages

databases

Booking info

Package

2.3

**3.3 ER-DIAGRAM**

Access

User

Packages

State

Booking

Has

Payment

**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. | Admin enter valid credentials. | Admin is able to login and add /modify/ delete the packages successfully. |
| 002 | User login | a. open website  b. click on login button  c. user will select state and package. | User entered his mobile 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 | 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. | User will fill booking form. | 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. |  | Payment done successfully and booking is confirmed. |

**4.2 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.

**4.3 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 to view student details, product details and edit these.

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

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

**c. packages**- admin can add/ delete/ modify packages only after admin logging in the website

and user can select packages according to their planned trip.

**d. booking** – user can book their trip by selecting packages according to their need and admin can view all the bookings.

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

confirmed.

**5. Sample Forms and Reports**

5.1 User login form