



Trip Planner Application

Software Manual

Project Timeline: 19/06/2023 to 30/06/2023

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1. Introduction

The software manual provides an overview of the entire application including the purpose, the scope and the tools used. The aim of this document is to gather, analyze and give an in-depth insight into the trip planner application by defining the problem statement in detail.

1.1 Purpose: The purpose of this manual is to show the basic functional components and how to use the trip planner application which can be used to plan and book a trip package.

1.2 Intended Audience: Clients

1.3 Intended Use:

- Development Team
- Maintenance Team
- Clients

1.4 Scope: This project aims to create a trip planner application which takes the package information and booking information of multiple clients such as name, residence, email, phone number, package, destination, date of travel, no. of days, no. of people, flight/train, hotel and payment mode and manages/processes that information like book a new package or view, cancel and rate old bookings of the respective clients. The application allows admin and clients to use the functions mentioned in “Functions” section.

2. Overall Description

It's a trip planner application that allows to book new packages and to processes the existing booking information of multiple clients. The application allows admin and clients to access and process the data where, admin can update packages, view booking records and clients can book new package, view, cancel and rate their bookings. The application uses map containers to process the existing booking information during running and text files to store the booking records after running.

2.1 Assumptions and Dependency:

- System is used preferably on a desktop or a laptop
- System should have Linux installed
- System should have 4GB or more RAM

3. Features and Requirements:

3.1 Tools:

- System Programming
- CPP Programming
- CPP File Handling
- make

3.2 Features:

- Usability: system can be used to plan and book trips
- Design & Supportability: system is built only with CPP language and is easy to use
- Reliability & Availability: system is available 24/7, so that, the client can use it whenever needed

4. Functions:

- **admin()** : authenticates admin with a password and authorizes to update packages and view booking records.
- **clientSignup()** : allows a new client to register with loginid, password and name in the application
- **clientLogin()** : authenticates clients with loginid and password and authorizes them to book a new package, view booking information, cancel booking and rate booking.
- **loadPackagedata()** : allows to map package data from text file into STL container for running
- **loadBookingdata()** : allows to map booking data from text file into STL container for running
- **logout()** : allows to de-map package and booking data from STL container into text file after running
- **updatePackages()** : allows admin to update package information like package name, days, destination and price
- **viewBookings()** : allows admin to view booking records of past 30 days

- **bookPackage()** : allows clients to book a new trip package based on flights, trains and hotels available on the data of travel
- **viewPackage()** : allows clients to view their booking
- **cancelPackage()** : allows clients to cancel their booking
- **ratePackage()** : allows client to rate their booking

5. Procedural Flow:

- Choose between Admin and Others

```
1. Admin
2. Others

choose an option: .....
```

- If “Admin”, enter password

```
choose an option: 1

Enter the password: |
```

- If password doesn't match, re-enter the correct password

```
password is incorrect.....

Enter the password: |
```

- If password matches, Admin gets logged in

```
Admin logged in.....

loading packages & bookings data.....
```

- Admin's main menu appears and choose between the options

```
1. update packages
2. view bookings
3. logout

choose an option: |
```

- If “update packages”, all the packages gets displayed and choose the package to update

```
Enter the package no. to update: |
```

- Menu to update package appears and choose between the options to update package name, days, destination, and price

```
1. update package name
2. update package days
3. update package destination
4. update package price
5. nothing to update

choose an option: |
```

- If “view bookings”, menu to view completed and future bookings appears and choose between the options

```
1. completed bookings
2. future bookings
3. nothing to view

choose an option: |
```

- If “completed bookings”, all the completed bookings based on today’s and travel dates gets displayed
- If “future bookings”, all the future bookings based on today’s and travel dates gets displayed
- If “logout”, Admin gets logged out

```
choose an option: 3

Admin logged out.....
```

- If “others, choose between signup and login

```
1. sign up

2. log in

choose an option: |
```

- If “sign up”, enter loginid, password and name to register

```
Enter email or phone number:

Enter password:

Enter name:|
```

- If “login”, enter loginid and password

```
Enter email or phone number:

Enter password: |
```

- If loginid and password doesn't match, re-enter the correct password

```
password is incorrect.....  
Enter password: |
```

- If password matches, client gets logged in

```
Samson logged in.....  
loading packages & bookings data.....
```

- Client's main menu appears and choose between the options

```
1. book package  
2. view booking  
3. cancel booking  
4. rate booking  
5. logout  
  
choose an option: |
```

- If "book package", all the packages gets displayed and choose the package to book

```
Enter package no. to book: |
```


- Enter the booking details

```
Enter residence:

Enter email:

Enter phonenumber:

Enter date of travel:

Enter no. of people:

Enter payment mode: |
```

- Menu to choose transportation and hoteling appears

```
1. check for flights/trains/hotels

2. change date of travel

3. nothing to check

choose an option: |
```

- If “check for flights/trains/hotels”, all the available flights, trains and hotels based on destination and travel date gets displayed and choose between the options

```
1. Chennai|Tirupati|06/07/2023|IndiGo 6E 312, 6E 6645 (10:35 - 19:40)|Republic Inn

2. Chennai|Tirupati|06/07/2023|Air India 6E 6309, AI 542 (04:50 - 13:55)|Republic Inn

3. Chennai|Tirupati|06/07/2023|16203 Chennai - Tirupati Garudadri Express (16:30 - 20:25)|Republic Inn

if you are okay with any flight/train/hotel to depart and stay, do confirm to book? (y/n): |
```

- If “view booking”, all the bookings on client’s name gets displayed

```
Booking Id      : 1001
Name            : Samson
Residence       : Tamil Nadu
Email           : samson55@gmail.com
Phone           : 9498035155
Package         : Special Chennai Tirupati Darshan
Destination     : Chennai-Tirupati
Date of Travel  : 05/07/2023
No. of Days     : 02 Nights/ 03 Days
No. of People   : 05
Flight/Train    : 16203 Chennai - Tirupati Garudadri Express (16:30 - 20:25)
Hotel           : Republic Inn
Payment Mode    : Cash On Delivery

press Enter key to return.....|
```

- If “cancel booking”, the booking on client’s name gets cancelled

```
1001 : Special Chennai Tirupati Darshan|Chennai-Tirupati

Enter the booking id to cancel: |
```

- If “rate booking”, the package booked by the client gets star rated

```
1001 : Special Chennai Tirupati Darshan|Chennai-Tirupati

Enter the booking id to rate: |
```

- If “logout”, client gets logged out

```
choose an option: 5

Samson logged out.....
```