

# Travel Booking System

Hi, 🙌 I am Kanishk mittal (2023BCY0003) and this is my mini project for following problem statement  
For any queries, you can contact me at [kanishkmittal2005@gmail.com](mailto:kanishkmittal2005@gmail.com).

## Online Travel Booking System:

Description: Manage travel bookings, flights, hotels, and vacation packages.

### Functionalities:

#### Search for travel options:

Description: Search for flights, hotels, and vacation packages.

Input: Travel dates, destination, preferences.

Output: List of available options.

#### Book travel services:

Description: Allow users to book flights, hotels, and vacation packages.

Input: Service type, dates, traveler details.

Output: Booking confirmed, itinerary provided.

#### Manage bookings:

Description: View and manage existing travel bookings.

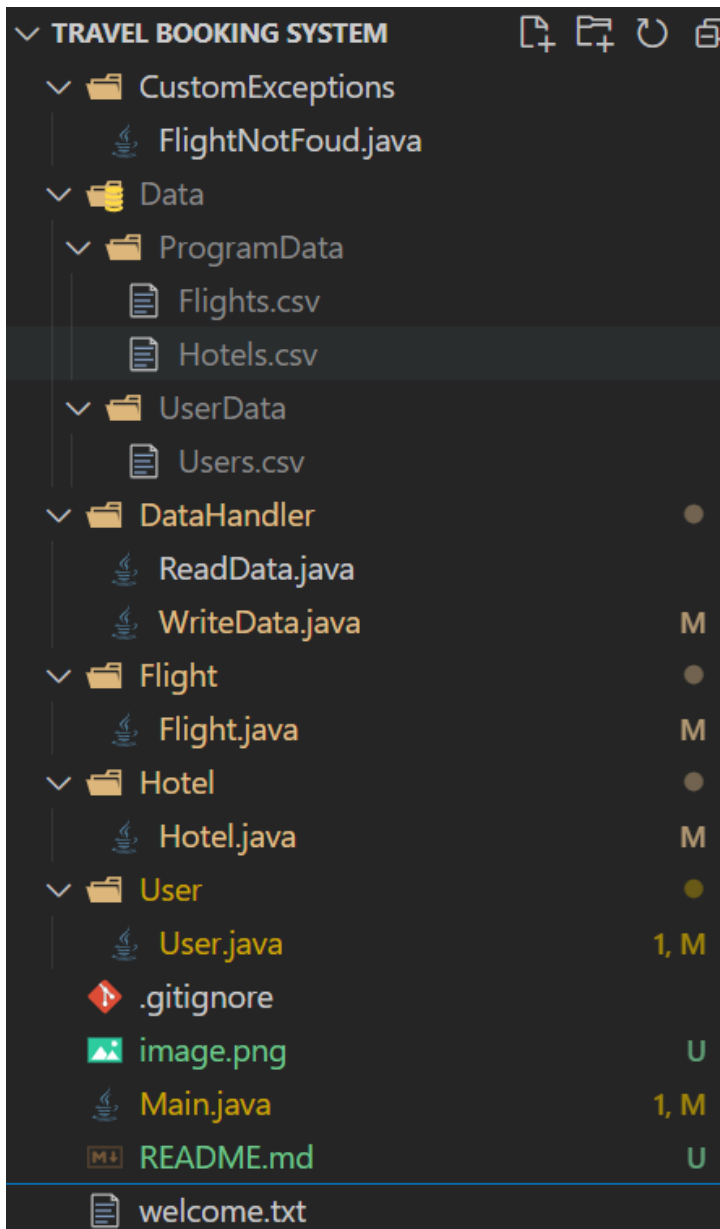
Input: Booking ID, traveler details.

Output: Booking details displayed, modifications allowed.

## Key Features

- Booking Flights
- Booking Hotels
- Creating multiple users
- Managing multiple bookings
- Cancelling bookings
- Viewing bookings

## Folder Structure



## Basic Components

- User
- Flight
- Hotel
- Data
- Custom Exceptions
- Data Handler
- Main

## Working of each component

### 1) Main

This is the main file which is used to run the whole project. It is the entry point of the project and manage how different componets interact with each other.

### 2) User

This file contains the user class which is used to create user objects and maintain a record of all users in ths system like managing there booking and their data and all that stuff.

### 3) DataHandler

This is the most import and most used package in the project and it is further subdivided into two parts:

### 3.1) Read Data

This part is used to read data from the files and store it in the form of objects in the system.

### 3.2) Write Data

This part is used to take objects as input and write them in their specific csv files and if that file is not present then it will create a new file with some dummy data in it which we can replace with actual data in real scenario.

#### 4) Flight

This file contains the flight class which is used to create flight objects and maintain a record of all flights in the system like managing there booking and their data and all that stuff.

## 5) Hotel

This file contains the hotel class which is used to create hotel objects and maintain a record of all hotels in the system like managing there booking and their data and all that stuff.

## How to run?

- First clone the repository using the following command

```
git clone "https://github.com/Kanishk-mittal/Travel-Booking-System"
```

- then run the main.java file

## Sample run

## First Run without any data

```

_ _ _ _ _
_ | | | / /      o o o | _ _ | | _ \   / \ \ / / | _ | | |   / _ |
| || | | ' <      o      | | | | /   | - | \ v /   | _ | | | _ \ _ \
_ \ _ / | _ \ \   TS_[0]  _ | | | | _ \   | _ |   _ \ / _   | _ | | _ | | _ /
_ | " " " " | _ | " " " " | {=====| _ | " " " " | _ | " " " " | _ | " " " " | _ | " " " " | _ | " " " " | _ | " " " " |
"-0-0-0-" "-0-0-0-"/o--000'" "-0-0-0-" "-0-0-0-" "-0-0-0-" "-0-0-0-" "-0-0-0-" "-0-0-0-" "-0-0-0-" "-0-0-0-"
=====Welcome to JK travels one Stop for all your travel needs=====

Please create an account to continue

Enter username: kanishk
Enter password: kanishk
Enter email: kanishkmittal2005@gmail.com
Enter name: kanihsk
Enter address: nila hostel IIIIT kottayam
Enter phone number: 1234567895

1. Book a flight
2.Cancel a flight
3. Book a hotel
4. Cancel a hotel
5. See your bookings
6. Exit

1
function called

Flight Number ||          Origin ||          Destination || Price

```

---

1		Washington		Delhi		50064.00
2		Londono		Moscow		20054.00
3		Paris		New York		30055.00
4		Beijing		Shanghai		10053.00
5		Tokyo		Seoul		15057.00
6		Los Angeles		San Francisco		5063.00
7		Chicago		New York		10051.00
8		New York		Washington		5064.00
9		Delhi		Beijing		20064.00
10		Moscow		Paris		15069.00
11		Shanghai		Tokyo		10057.00
12		Seoul		Los Angeles		20065.00
13		San Francisco		Chicago		10053.00
14		New York		Washington		5053.00
15		Washington		Delhi		50056.00
16		Londono		Moscow		20050.00
17		Paris		New York		30052.00
18		Beijing		Shanghai		10068.00
19		Tokyo		Seoul		15066.00
20		Los Angeles		San Francisco		5061.00

Enter the flight number you want to book: 1

Seats available for flight 1

Day 1: 58  
Day 2: 68  
Day 3: 63  
Day 4: 55  
Day 5: 65  
Day 6: 55  
Day 7: 64  
Day 8: 64  
Day 9: 58  
Day 10: 64  
Day 11: 52  
Day 12: 67  
Day 13: 57  
Day 14: 65  
Day 15: 57  
Day 16: 50  
Day 17: 59  
Day 18: 61  
Day 19: 53  
Day 20: 64  
Day 21: 67  
Day 22: 60  
Day 23: 51  
Day 24: 65  
Day 25: 51  
Day 26: 61  
Day 27: 56  
Day 28: 54  
Day 29: 60  
Day 30: 63

Enter the date you want to book: 25

Are you sure you want to book flight no 1 on 25? (yes/no)

yes

Flight booked successfully

1. Book a flight
2. Cancel a flight
3. Book a hotel
4. Cancel a hotel
5. See your bookings
6. Exit

5

===BOOKED FLIGHT===

Flight Number: 1

Origin: Washington

Destination: Delhi

Price: 50064.0

1. Book a flight
2. Cancel a flight
3. Book a hotel
4. Cancel a hotel
5. See your bookings
6. Exit

3

Hotels available

Hotel ID	Hotel Name	Location	Price
1	Taj Hotel	Washington	10061.00
2	Marriot	London	20068.00
3	Hyatt	Paris	30057.00
4	Grand Hotel	Beijing	10056.00
5	The Ritz	Tokyo	15058.00
6	The Peninsula	Los Angeles	5051.00
7	The Four Seasons	Chicago	10058.00
8	The Plaza	New York	5059.00
9	The Oberoi	Delhi	20063.00
10	The Ritz	Moscow	15057.00
11	The Peninsula	Shanghai	10052.00
12	The Four Seasons	Seoul	20055.00
13	The Plaza	San Francisco	10054.00
14	The Oberoi	New York	5069.00
15	Taj Hotel	Washington	10054.00
16	Marriot	London	20053.00
17	Hyatt	Paris	30058.00
18	Grand Hotel	Beijing	10058.00
19	The Ritz	Tokyo	15055.00
20	The Peninsula	Los Angeles	5062.00

Enter the hotel number you want to book: 10

Rooms available for hotel 10

Day 1 :- 55

Day 2 :- 67

Day 3 :- 59

Day 4 :- 55

Day 5 :- 56

Day 6 :- 52

Day 7 :- 66

Day 8 :- 68

Day 9 :- 68

Day 10 :- 54

Day 11 :- 66

Day 12 :- 54

Day 13 :- 61

Day 14 :- 51

Day 15 :- 56

Day 16 :- 54

Day 17 :- 62

Day 18 :- 53

Day 19 :- 63

Day 20 :- 53

Day 21 :- 53

Day 22 :- 63

Day 23 :- 62

Day 24 :- 64

Day 25 :- 55

Day 26 :- 51

Day 27 :- 60

Day 28 :- 62

Day 29 :- 57

Day 30 :- 68

```

Enter the date and no of days you want to book: 29
2
Are you sure you want to book hotel no 10 on 29 for 2 days ? (yes/no)
yes
Hotel booked successfully
1. Book a flight
2.Cancel a flight
3. Book a hotel
4. Cancel a hotel
5. See your bookings
6. Exit
5
===BOOKED FLIGHT===
Flight Number: 1
Origin: Washington
Destination: Delhi
Price: 50064.0
===BOOKED HOTEL===
Hotel ID: 10
Hotel Name: The Ritz
Location: Moscow
Price: 15057.0
Booked for the following dates: 29 ,30 ,
1. Book a flight
2.Cancel a flight
3. Book a hotel
4. Cancel a hotel
5. See your bookings
6. Exit
6

```

## Second Run with data

```
- - -
```

```
_ | | | | / /      o o o |_ _ | _ \   / \ \ / / | _| | |    / _|  
| || | | | ' <     o       | |   | /   | - | \ v /   | _| | | _ \_ \  
\_\_/ | _|\_\ \ TS_[0]  _||_   | _\   | _|   _\/_   | _| | _| | _/  
_| " " " " | _| " " " " | {=====| _| " " " " | _| " " " " | _| " " " " | _| " " " " | _| " " " " | _| " " " " | _| " " " " | _| " " " "  
"-0-0-0-"`'-0-0-'./o--000'"`'-0-0-'"`'-0-0-'"`'-0-0-'"`'-0-0-'"`'-0-0-'"`'-0-0-'"`'-0-0-'"`'-0-0-'"`'-0-0-'"`'-0-0-'"`'-0-0-'  
  
=====Welcome to JK travels one Stop for all your travel needs=====
```

```
1. Login  
2. Create new account  
1  
Enter username: kanishk  
Enter password: kanishk  
1.  
1. Book a flight  
2.Cancel a flight  
3. Book a hotel  
4. Cancel a hotel  
5. See your bookings  
6. Exit
```

```
5
===BOOKED FLIGHT===
Flight Number: 1
Origin: Washington
Destination: Delhi
Price: 50064.0
===BOOKED HOTEL===
Hotel ID: 10
Hotel Name: The Ritz
Location: Moscow
Price: 15057.0
Booked for the following dates: 29 ,30 ,
1. Book a flight
2.Cancel a flight
3. Book a hotel
4. Cancel a hotel
5. See your bookings
6. Exit
2
Do you really want to cancel your following flight?(yes/no)
Flight Number: 1
Origin: Washington
Destination: Delhi
Price: 50064.0
yes
Flight cancelled successfully
1. Book a flight
2.Cancel a flight
3. Book a hotel
4. Cancel a hotel
5. See your bookings
6. Exit
5
===BOOKED HOTEL===
Hotel ID: 10
Hotel Name: The Ritz
Location: Moscow
Price: 15057.0
Booked for the following dates: 29 ,30 ,
1. Book a flight
2.Cancel a flight
3. Book a hotel
4. Cancel a hotel
5. See your bookings
6. Exit
4
1. Book a flight
2.Cancel a flight
3. Book a hotel
4. Cancel a hotel
5. See your bookings
6. Exit
5
```



1. Book a flight
  2. Cancel a flight
  3. Book a hotel
  4. Cancel a hotel
  5. See your bookings
  6. Exit
- 6

## Data in files after first execution

### Flight.csv

```
1,Washington,Delhi,50064.0,59,68,63,55,65,55,64,64,58,64,52,67,57,65,57,50,59,61,53,64,67,60,51,65,50,61,56,54,60,63
2,Londono,Moscow,20054.0,52,60,58,59,63,58,65,56,69,53,57,58,57,55,58,50,55,55,63,56,56,66,60,69,54,56,54,50,67,62
3,Paris,New
York,30055.0,63,51,59,68,60,60,56,64,58,52,52,59,50,54,64,66,52,54,60,50,57,58,65,69,55,68,57,62,53,67
4,Beijing,Shanghai,10053.0,60,60,62,64,65,53,57,53,68,64,58,57,66,61,67,52,65,54,52,61,63,62,62,62,65,63,55,57,53,66
5,Tokyo,Seoul,15057.0,52,51,55,58,56,58,51,63,68,65,58,51,68,65,50,65,57,52,52,64,57,69,62,64,58,54,67,53,58,60
6,Los Angeles,San
Francisco,5063.0,51,56,62,63,65,58,52,57,56,56,51,53,55,67,63,61,62,55,69,59,51,57,55,56,50,63,50,50,57,60
7,Chicago,New
York,10051.0,67,68,57,50,60,65,58,50,57,52,65,66,59,50,68,56,68,54,63,60,65,69,60,55,51,57,65,56,54,58
8,New
York,Washington,5064.0,62,55,68,62,60,64,62,55,61,58,67,54,68,58,52,61,51,58,60,60,61,59,56,68,53,58,51,63,53,52
9,Delhi,Beijing,20064.0,65,57,53,52,57,51,63,55,51,61,65,59,69,58,55,59,68,61,66,64,51,52,56,51,55,61,54,51,68,58
10,Moscow,Paris,15069.0,65,64,53,65,54,59,58,59,59,63,63,51,53,62,59,63,52,51,58,52,63,67,54,55,68,69,53,54,65,66
11,Shanghai,Tokyo,10057.0,64,67,50,69,57,67,68,64,53,59,69,63,64,62,58,58,53,60,69,61,63,69,57,50,69,50,54,51,62,62
12,Seoul,Los
Angeles,20065.0,51,63,67,62,58,62,66,54,52,56,50,51,56,51,56,69,69,59,68,67,53,64,58,54,58,56,68,57,50,53
13,San
Francisco,Chicago,10053.0,54,65,52,54,63,68,66,64,55,68,62,57,68,60,50,54,50,64,62,51,68,65,64,63,60,55,62,68,66,56
14,New
York,Washington,5053.0,59,58,61,54,56,67,69,68,65,52,62,55,66,68,57,62,65,56,55,65,53,52,58,60,62,63,60,59,62,63
15,Washington,Delhi,50056.0,51,58,62,56,57,52,50,55,57,52,62,63,65,52,53,66,62,67,55,67,67,50,51,62,55,68,51,56,56,60
16,Londono,Moscow,20050.0,50,50,64,63,69,61,66,61,67,58,66,60,68,50,59,65,59,52,61,57,50,68,64,68,67,68,53,56,56,50
17,Paris,New
York,30052.0,60,50,68,68,62,63,54,53,66,64,61,66,64,69,60,66,53,60,66,57,50,69,53,65,59,64,66,51
```

,62,54  
18,Beijing,Shanghai,10068.0,54,63,63,61,62,64,65,69,60,50,55,60,59,62,69,50,68,51,69,54,62,60,56,66,66,55,58,60,69,60  
19,Tokyo,Seoul,15066.0,64,55,55,59,51,50,62,62,51,61,67,61,65,68,53,61,51,53,64,58,55,52,63,58,65,53,61,54,50,60  
20,Los Angeles,San Francisco,5061.0,50,56,58,51,61,62,64,64,65,66,52,58,55,57,55,65,54,58,61,63,60,51,51,50,58,66,63,51,55,52

## Hotel.csv

1,Taj Hotel,Washington,10061.0,63,53,68,54,62,69,55,66,69,57,53,55,63,57,69,58,57,63,67,62,68,54,69,55,68,66,67,51,68,66  
2,Marriot,London,20068.0,62,57,66,59,50,61,58,56,53,69,67,67,61,54,61,66,57,55,62,54,68,54,69,50,58,62,60,66,57,52  
3,Hyatt,Paris,30057.0,66,51,60,56,57,59,67,66,61,67,65,68,60,61,60,63,67,54,62,66,63,63,58,52,55,50,56,61,67,60  
4,Grand Hotel,Beijing,10056.0,59,63,51,54,57,55,57,68,52,53,51,66,63,53,66,64,57,62,59,64,53,53,60,65,50,68,68,52,63,55  
5,The Ritz,Tokyo,15058.0,57,56,69,62,67,67,59,57,66,68,60,52,55,50,68,67,61,51,51,63,68,60,60,50,53,62,51,68,62,63  
6,The Peninsula,Los Angeles,5051.0,50,63,53,65,57,62,69,67,63,52,64,55,63,51,58,51,60,63,54,53,55,61,68,68,59,57,53,52,66,50  
7,The Four Seasons,Chicago,10058.0,54,68,60,55,55,63,69,64,54,54,67,59,50,58,56,66,52,59,50,63,69,63,57,53,66,51,64,58,59,55  
8,The Plaza,New York,5059.0,64,69,67,59,66,52,66,65,55,58,59,62,50,69,64,58,66,57,52,62,60,66,64,64,62,69,59,62,59,55  
9,The Oberoi,Delhi,20063.0,64,64,57,67,61,60,65,55,53,51,54,61,69,50,62,64,52,69,62,62,64,50,66,50,66,67,59,51,68,68  
10,The Ritz,Moscow,15057.0,55,67,59,55,56,52,66,68,68,54,66,54,61,51,56,54,62,53,63,53,53,63,62,64,55,51,60,62,56,67  
11,The Peninsula,Shanghai,10052.0,64,61,58,61,52,58,57,56,65,56,57,50,66,65,66,51,52,56,62,69,68,63,65,66,65,64,53,50,62,59  
12,The Four Seasons,Seoul,20055.0,59,69,54,63,61,64,69,64,52,66,64,58,54,66,63,65,59,60,69,59,65,51,60,66,58,50,55,67,53,56  
13,The Plaza,San Francisco,10054.0,57,60,54,60,57,67,59,54,51,66,54,66,62,58,68,66,63,65,52,54,52,54,60,63,51,67,66,54,56,55  
14,The Oberoi,New York,5069.0,51,66,63,52,69,55,62,57,52,60,63,65,51,51,62,67,56,53,55,66,59,56,61,52,67,61,54,63,51,59  
15,Taj

Hotel, Washington, 10054.0, 57, 64, 53, 66, 52, 60, 61, 55, 53, 63, 66, 64, 57, 53, 60, 63, 55, 50, 62, 68, 63, 57, 61, 66, 65, 58, 62, 63, 51, 63

16, Marriot, London, 20053.0, 54, 65, 59, 54, 59, 52, 54, 69, 64, 60, 66, 54, 60, 57, 66, 68, 60, 58, 60, 58, 63, 65, 62, 60, 52, 67, 64, 59, 57, 65

17, Hyatt, Paris, 30058.0, 64, 53, 69, 57, 50, 66, 56, 52, 55, 64, 65, 53, 51, 50, 67, 60, 68, 58, 57, 69, 56, 62, 57, 69, 60, 53, 52, 64, 57, 54

18, Grand Hotel, Beijing, 10058.0, 54, 61, 54, 62, 54, 61, 64, 51, 61, 59, 55, 63, 56, 50, 59, 60, 52, 50, 63, 61, 63, 51, 52, 62, 61, 63, 65, 58, 68, 64

19, The Ritz, Tokyo, 15055.0, 54, 66, 61, 54, 61, 68, 64, 66, 59, 59, 60, 60, 60, 57, 56, 67, 51, 68, 57, 59, 58, 52, 57, 51, 60, 62, 54, 68, 50, 69

20, The Peninsula, Los Angeles, 5062.0, 69, 68, 57, 65, 52, 66, 53, 69, 53, 62, 51, 64, 67, 62, 57, 61, 63, 66, 66, 60, 67, 69, 53, 54, 63, 54, 67, 61, 67, 56

## Users.csv

kanishk|kanishk|kanishkmittal2005@gmail.com|kanihsk|nila hostel IIIT  
kottayam|1234567895|1|1|1|1|[]