**Trip-Easy**

**Overview of Project**

Trip-Easy offers great offers, some of the lowest airfares, exclusive discounts and a seamless online booking experience. Flight, hotel bookings through the desktop or mobile site is a delightfully customer friendly experience, and with just a few clicks you can complete your booking.

**Services:**

**1. Booking Service:**

1. **Flight :**

|  |  |
| --- | --- |
| Method | [POST] |
| API | /book?type=flight |
| Input | {“Flight”,  “source”,  “destination”,  “journey date”,  “class” ,  “passenger details”} (JSON) |
| Return | ResponseEntity(“Success Message”,HTTPStatus.OK)  ResponseEntity(“Error Message”,HTTPStatus.NOT\_FOUND) |

1. **Hotels :**

|  |  |
| --- | --- |
| Method | POST |
| API | /book?type=hotel |
| Input | {“Hotel”,  “Traveller Information”,  “date”}(JSON) |
| Return | ResponseEntity(“Success Message”,HTTPStatus.OK)  ResponseEntity(“Error Message”,HTTPStatus.NOT\_FOUND) |

**2. User Service :**

1. **Sign up :** In this we provide a basic registration which include user details such as Name, Phone Number and other details

|  |  |
| --- | --- |
| Method | [POST] |
| API | /user/signUp |
| Input | {“Full Name”,  “Email Id”,  “Mobile No.”,  “Gender”,  “Username”,  “Password” }(JSON) |
| Return | ResponseEntity(“Success Message”,HTTPStatus.OK)  ResponseEntity(“Error Message”,HTTPStatus.NOT\_FOUND) |

1. **Login :** In this we provide user few additional facilities such as update profile , booking history , change password

|  |  |
| --- | --- |
| Method | [POST] |
| API | /user/login |
| Input | {“Username”, “Password” }(JSON) |
| Return | ResponseEntity(“Success Message”,HTTPStatus.OK)  ResponseEntity(“Error Message”,HTTPStatus.NOT\_FOUND) |

**3. Search and Filters**

1. **Flight :**

* **Search :** In this we provide searching facilities such as Source and Destination , Class , Date
* **Filter :** In this we provide facility such as Price ranges from maximum price flights to minimum price flights , Duration of Travel , Departure Time , Arrival Time, Number of stoppage etc.

|  |  |
| --- | --- |
| Method | [GET] |
| API | /search/flight |
| Input | {“source”,  “ destination”,  “class”} (JSON) |
| Return | [Flight]  ResponseEntity(“Flight”,HTTPStatus.OK)  ResponseEntity(“Error Message”,HTTPStatus.NOT\_FOUND) |

1. **Hotel :**

* **Search :** In this we provide searching facilities based on city, area and date.
* **Filter :** In this we provide filter facility based on price, user ratings.

|  |  |
| --- | --- |
| Method | [GET] |
| API | /search/hotel |
| Input | {“City” , “ Area”}(JSON) |
| Return | [Hotel]  ResponseEntity(“Hotel”,HTTPStatus.OK)  ResponseEntity(“Error Message”,HTTPStatus.NOT\_FOUND) |

**4. Offers and Gift cards**

* We provide various on season offers, festivities discount, platinum loyalty membership card and other discounts

|  |  |
| --- | --- |
| Method | [GET] |
| API | /offers |
| Input |  |
| Return | [Offer]  ResponseEntity(“Offer”,HTTPStatus.OK)  ResponseEntity(“Error Message”,HTTPStatus.NOT\_FOUND) |

5. **Payment Service**

We will transfer the amount from customer account to our TripEasy bank account and then later we will take some commission and transfer the remaining amount to the Hotel/Flight provider’s Bank Account.

|  |  |
| --- | --- |
| Method | [POST] |
| API | /payment |
| Input | {“BankDetails”, “Amount” }(JSON) |
| Return | ResponseEntity(“Success Message”,HTTPStatus.OK)  ResponseEntity(“Error Message”,HTTPStatus.NOT\_FOUND) |

**6. Register Service**

\* We provide clients the facility to register their hotels and flights in our website and can update the details

|  |  |
| --- | --- |
| Method | [POST] |
| API | /client?type=hotel |
| Input | {“Hotel” }(JSON) |
| Return | ResponseEntity(“Success Message”,HTTPStatus.OK)  ResponseEntity(“Error Message”,HTTPStatus.NOT\_FOUND) |

|  |  |
| --- | --- |
| Method | [POST] |
| API | /client?type=flight |
| Input | { “Flight” }(JSON) |
| Return | ResponseEntity(“Success Message”,HTTPStatus.OK)  ResponseEntity(“Error Message”,HTTPStatus.NOT\_FOUND) |

|  |  |
| --- | --- |
| Method | [PUT] |
| API | /client?type=flight |
| Input | { “Flight” }(JSON) |
| Return | ResponseEntity(“Success Message”,HTTPStatus.OK)  ResponseEntity(“Error Message”,HTTPStatus.NOT\_FOUND) |

|  |  |
| --- | --- |
| Method | [PUT] |
| API | /client?type=hotel |
| Input | {“Hotel” }(JSON) |
| Return | ResponseEntity(“Success Message”,HTTPStatus.OK)  ResponseEntity(“Error Message”,HTTPStatus.NOT\_FOUND) |

|  |
| --- |
| <<Class>>  Flight |
| - Flight Id : Integer  - Airline Name : String  - Source : String  - Destination : String  - Price : Double  - Capacity : Integer  - Availability : Integer  - Arrival Time : Time  - Departure Time : Time  - Duration : Time  - Class : String |
|  |

|  |
| --- |
| <<Class>>  Hotel |
| - Hotel Name : String  - Amenities : List<String>  - Location : String  - No of rooms: Integer  - Contact : Integer  - Address : String  - Class : String  - Rent : Double |
|  |

|  |
| --- |
| <<Class>>  User |
| - UserId : Integer  - Name : String  - Email : String  - Address : Address  - Mobile Number : Integer |
|  |

|  |
| --- |
| <<Class>>  Offer |
| - Coupon : String  - Message : String  - Discount : Integer |
|  |

|  |
| --- |
| <<Class >>  Address |
| - pid : Integer  - StreetNo : Integer  - StreetName : String  - State : String  - Pincode : Integer |
|  |

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| --- |
| Traveller Information |
| - Name : String  - Age : String  - Gender : String |
|  |