1. Registration
   1. Description- Allows user to register
   2. Actors- Customer
   3. Pre-condition- Visit website home page
   4. Basic Flow

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 1 | Clicks on register button |  |
| 2 |  | Generates an input form |
| 3 | Customer inputs data |  |
| 4 |  | System searches for already registered user |
| 5 |  | Registered data is saved in database |
| 6 |  | Displays “User registered successfully” |

* 1. Alternate flow

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 3.1 | User inputs invalid data | Displays error message and redirects to 3 |
| 4.1 |  | Displays already registered user and redirects to login |

* 1. Post conditions- User is redirected to login
  2. Special conditions-

Response time: Should not be more than 10 seconds

* 1. Other Specifications-

Frequency of usage: Moderate

Complexity: Moderate

1. Login
   1. Description- Allows user to login
   2. Actors- Customer
   3. Pre-condition- User must be registered
   4. Basic Flow

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 1 | Actor clicks on login button |  |
| 2 |  | System displays Login screen to actor. |
| 3 | Actor enters username and password  and clicks ‘OK’ |  |
| 4 |  | System searches given username in  database and retrieve actor’s password. |
| 5 |  | System compares the password and  authenticates the actor. |
| 6 |  | System displays ‘Login Successful’  message and navigate to actor’s page. |

* 1. Alternate flow

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 3.1  Invalid username/ password | Actor enters invalid username or password | System shows error and redirects  to step 3 in the basic flow (Three times  and exits use case) |
| 4.1  Username not available in database. |  | System displays error ‘Invalid  User’, exits use case. |
| 5.1  Invalid Password |  | System displays error ‘Invalid  Password’ and redirect to step 3 and  exits the usecase. |

* 1. Post conditions- User gets logged into the system if the entered credentials were correct
  2. Special conditions-

Response time: Should be less than 3 seconds

Throughput: Concurrent 100 transactions required

* 1. Other Specifications-

Frequency of usage: High

Complexity: Medium

1. Search Place
   1. Use case description- Allows customer to search packages by entering the name of place, the package must include.
   2. Actors- Customer
   3. Preconditions- Customer must be logged in.
   4. Basic flow of interaction

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 1 | Actor clicks on search place |  |
| 2 |  | System displays input for place. |
| 3 | Actor enters place to be searched |  |
| 4 |  | System searches the packages which include that place |
| 5 |  | System retrieves all found packages from database. |
| 6 |  | System displays the packages |

* 1. Alternate flow

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 3.1 | 3.1.1 Actor enters invalid place |  |
|  |  | 3.1.2 System displays “Invalid input” and redirects to 2 in basic flow |

* 1. Post conditions- All package names are displayed each having ‘show package’ feature
  2. Special conditions-

Response time must be less than 5 seconds.

* 1. Other specifications-

Complexity- Moderate

Frequency of usage- High

1. Manage search
   1. Use case description- The search can be customised by applying filters which include Number of days, Price, Start date of the trip.
   2. Actors- Customer
   3. Precondition- User must be logged in.
   4. Basic flow of interaction

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Actor | System |
| 1 |  | Actor clicks on manage search |  |
| 2 |  |  | System displays filters   1. Number of days 2. Price 3. Start date |
| 3 |  | Actor selects a filter and sets appropriate restriction   1. Number of days- Drop down menu of integers 2. Price 3. Start date- Calendar view |  |
| 4 |  |  | System saves the filter |

* 1. Alternate flow

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 3.1 | 3.1.1 Actor enter invalid price |  |
|  |  | 3.1.2 System displays invalid price and redirects to 2 in basic flow. |

* 1. Post condition- Displays search option by place
  2. Special conditions- Response time should be less than 2 seconds
  3. Other specifications

Complexity- Easy

Frequency of usage- High

1. Show Package
   1. Use case description- Allows user to view the content of a particular package
   2. Actors- Customer
   3. Preconditions- Customer must be logged in
   4. Basic flow of interaction

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 1 | Clicks on show package |  |
| 2 |  | Displays the content of the package   1. Highlights 2. Itinerary 3. Dates 4. Contact information |

* 1. Alternate flow- No alternate flow
  2. Post conditions- Book package option is displayed
  3. Special conditions- Response time should be less than 3seconds.
  4. Other specifications-

Complexity- Low

Frequency of usage- High

1. Add Package
   1. Use case description- Allows manager to add new packages to the system
   2. Actors- Travel Manager
   3. Preconditions- Travel manager must be authorised (Admin Login)
   4. Basic flow of interaction

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 1 | Clicks on add package |  |
| 2 |  | Displays the content of the package that needs to be entered   1. Highlights 2. Itinerary 3. Dates 4. Contact information 5. Places 6. Price |
| 3 | Uploads the required information and clicks confirm |  |
| 4 |  | Checks if the information is valid |
| 5 |  | Saves the new package information is database |
| 6 |  | Displays success message |

* 1. Alternate flow

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 4.1 | Uploads invalid itinerary | Displays error and redirects to 2 in basic flow |
| 4.2 | Invalid contact information | Displays error and redirects to 2 in basic flow |
| 5.1 |  | Database connectivity lost: Displays error and exists the use case |

* 1. Post conditions- Redirects to home page
  2. Special conditions-

Response time must be less than 10 seconds

* 1. Other specifications

Complexity- Moderate

Usage- Moderate

1. Delete Package
   1. Use case description-

Allows travel manager to delete package from the system

* 1. Actors- Travel manager
  2. Preconditions- Travel manager must be authorised (Admin Login)
  3. Basic flow of interaction

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 1 | Clicks on Delete package |  |
| 2 |  | Displays input for package ID |
| 3 | Enters package ID |  |
| 4 |  | Checks if package ID is valid |
| 5 |  | Checks if package exists |
| 6 |  | Displays package preview and asks for confirmation |
| 7 | Clicks confirm |  |
| 8 |  | Deletes the package from database |

* 1. Alternate flow

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 4.1 | Enters invalid Package ID | Displays package ID invalid and redirects to 2 in basic flow |
| 5.1 |  | Package does not exist: Displays error and exit use case |
| 7.1 | Clicks cancel instead of confirm | Exit use case |
| 8.1 |  | Database connectivity error: Displays error and exit use case |

* 1. Post conditions- Closes database connection and redirects to home page
  2. Special conditions- Only one concurrent user should access the use case
  3. Other specifications-

Complexity- Low

Frequency of usage- Low

1. Update Package
   1. Use case description- Allows manager to update any existing package
   2. Actors- Travel Manager
   3. Preconditions- Travel manager must be authorised (Admin Login)
   4. Basic flow of interaction

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 1 | Clicks on Update Package |  |
| 2 |  | Displays input for package ID |
| 3 | Enters package ID |  |
| 4 |  | Checks if package ID is valid |
| 5 |  | Checks if package exists |
| 6 |  | Displays package preview and edit option |
| 7 | Makes necessary changes |  |
| 8 | Clicks submit |  |
| 9 |  | Saves the changes in database |

* 1. Alternate flow

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 4.1 | Enters invalid Package ID | Displays package ID invalid and redirects to 2 in basic flow |
| 5.1 |  | Package does not exist: Displays error and exit use case |
| 9.1 |  | Database connectivity lost: Displays error and exists the use case |

* 1. Post conditions- Displays success message and redirects to home page
  2. Special conditions- Response time should be less than 5 seconds

Only one concurrent user

* 1. Other specifications-

Complexity- Moderate

Frequency of usage- Low

1. Book Package
   1. Use case description-

Allows customer to book any of the available packages

* 1. Actors- Customer
  2. Preconditions- Customer must be logged in.
  3. Basic flow of interaction

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 1 | Clicks on book package |  |
| 2 |  | Displays Input screen for number of people |
| 3 | Enters number of people and clicks book |  |
| 4 |  | Saves information in Database |
| 5 |  | Displays Booking ID |

* 1. Alternate flow

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 4.1 |  | Database connectivity lost: Displays error and exists the use case |

* 1. Post conditions- Redirects to payment screen
  2. Special conditions- Old Packages cannot be booked. A package is not booked if payment is not completed within 3 days.
  3. Other specifications-

Frequency of usage- Low

Complexity- Moderate

1. Make Payment
   1. Use case description
   2. Actors- Customer
   3. Preconditions- Must have booked some package
   4. Basic flow of interaction

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 1 | Clicks on make payment |  |
| 2 |  | Displays Screen for UPI |
| 3 | Enters UPI |  |
| 4 |  | Checks if UPI is valid |
| 5 | Clicks pay |  |
| 6 |  | Sends request to UPI payment App |
| 7 |  | Receives Response, Saves transaction ID |
| 8 |  | Displays Transaction ID |

* 1. Alternate flow

|  |  |  |
| --- | --- | --- |
|  | Actor | System |
| 4.1 | Invalid UPI | Displays error and redirects to 2 in basic flow |
| 7.1 | Payment failed | Displays error and exits use case |

* 1. Post conditions- Redirects to home page
  2. Special conditions-
  3. Other specifications