Travel Agency Manager System
Use-Case Model

Version 1.0

Revision History

Date	Version	Description	Author
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Table of Contents

Use-Case Model

1.   Use-Cases Identification

1.1.   Actors:

- Agency employees: They are the primary users of the client-server application and have access to all functionalities of the system.
- Administrator: Manages the company's employees and information about hotel and trip availability.

1.2.   Scenarios:

- Agency employee adds a new vacation.
- Agency employee modifies client information.
- Agency employee reserves a vacation for a client.
- Administrator adds a new employee.
- Administrator modifies employee information.
- Administrator modifies information about hotel/trip availability.

1.3.   Use Cases:

Use Case 1: Login.
Level: User-goal level
Primary actor: Admin or Employee
Main success scenario:
- The user opens the app and is greeted with the "Login" form.
- The user enters their username and password.
- The system confirms that they are correct, and the travel agency application starts.
- Extensions:
    - The username or the password provided are wrong. An error appears and the user is instructed to try again or click the "Forgot password" link.

Use Case 2: Register

Level: User-goal level

Primary actor: Tourism agency employee

- The user opens the app and is greeted with the "Login" form.
- The user clicks on "Register" link.
- The user writes in a form their email address, username, and password.
- The system confirms that they are in the database and sends a confirmation email.
- The user clicks on the link in the confirmation email and their account is created.
- Extensions:
  - The username provided already exists. An error appears and the user is instructed to choose another.
  - The email of the user is not in the system database. An error appears and instructs the user to get in contact with their manager.
  - The user doesn't click on the confirmation email in 31 days. Their pending account is deleted.

Use Case 3: Add a new vacation.

Level: User-goal level

Primary actor: Tourism agency employee

Main success scenario:

- The employee selects the "Add Vacation" option from the main menu.
- The system prompts the employee to enter the vacation details, including type, location, price, and availability.
- The employee enters the details and saves the vacation.
- The system confirms that the vacation has been added successfully.
- Extensions:
  - The vacation details are incomplete or invalid: The system prompts the employee to enter valid data.
  - The vacation conflicts with an existing vacation: The system prompts the employee to choose an alternative date or location.

Use Case 4: Make a reservation.

Level: User-goal level

Primary actor: Tourism agency employee

Main success scenario:

- The employee selects the "Reserve Vacation" option from the main menu.
- The system prompts the employee to select the client and the vacation.
- The employee selects the client and vacation and enters the reservation details, including dates, price, and payment information.
- The system confirms that the reservation has been made successfully.
- Extensions:
  - The client or vacation is not found in the system: The system prompts the employee to enter valid data.
  - The vacation is no longer available: The system prompts the employee to choose an alternative vacation.

Use case 5: Add a new client.

Level: Sub-function level

Primary actor: Agency employee

Main success scenario:

- The employee selects the "Add Client" option.
- The system prompts the employee to enter the client's personal information, including name, address, email, phone number.
- The employee enters the required information and saves it.
- The system confirms that the client has been added to the database and assigns a unique client ID to the new client.
- The employee can now view, modify or delete the client's information.
- Extensions:
  - If the employee tries to add a client with missing or invalid information, the system will prompt the employee to correct the errors before saving the information.
  - If the employee tries to add a client with a duplicate ID, the system will prompt the employee to either modify the existing client information or create a new ID for the new client.

Use Case 6: Update vacation availability based on operator information.

Level: Sub-function level

Primary actor: Admin

Main success scenario:

- The admin receives an XML file from an operator containing information about hotel/trip availability.
- The admin updates the database with the new information.
- Extensions:
  - The XML file is invalid or incomplete: The system sends an error message to the operator.
  - The operator is not authorized to update the information: The system sends an error message to the operator.

Use case 7: Add a new employee.

Level: Sub-function level

Primary actor: Admin

Main success scenario:

- The admin selects the "Add Employee" option.
- The system prompts the admin to enter the employee's personal information, including name, address, email, phone number, and passport/ID number.
- The employee enters the required information and saves it.
- The system confirms that the client has been added to the database and assigns a unique client ID to the new client.
- The employee can now view, modify or delete the client's information.
- Extensions:
  - If the employee tries to add a client with missing or invalid information, the system will prompt the employee to correct the errors before saving the information.
  - If the employee tries to add a client with a duplicate ID, the system will prompt the employee to either modify the existing client information or create a new ID for the new client.

2.   UML Use-Case Diagrams