USE CASE 08: Client Books a Solo Trip

ID	UC08
Title	Client Books a Trip
Description	As a client of the Rail Network, I should be able to book a trip for myself according to the desired connection I searched for.
Primary Actor	Client.
Preconditions	- Client selected option to book on the terminal. - System successfully displayed the results of the search. - Client has identified a desired connections amongst the connections displayed from the search result. - Number of travellers is 1. - Desired connection has available seats/capacity/space. - Client inputs necessary information (name, age and id).
Postconditions	- Trip object created. - Newly created trip has a unique id. - Reservation created for all travellers. - Ticket created for reservation (just one since it's a solo trip). - Trip recorded in Trip Registry. - System displays booking confirmation to client.
Inputs	- Selected connection (amongst connection search results). - Client information: name, age and id. - Number of travellers is entered as 1.
Outputs	- Booking confirmation containing trip id. - Error message if there isn't enough space on connection or if failure. - Ticket information. - Trip details (connection details).
Main Success Scenario	1. Client selects the 'Book a trip' option from the terminal. 2. Client searches for a connection. 3. System displays connection search results. 4. Client selects the connection they want to book. 5. System asks for client details and client inputs details. 6. System asks if client wants to add travellers. 7. Client selects 'No'. 8. System validates client details and makes sure no duplicate trip/reservation exists. 9. System creates Trip, Reservation and Ticket objects (one of each). 10. System displays booking confirmation and details. 11. System records created trip in Trip Registry. 12. System prompts user if they want to go back to main menu or exit program.

USE CASE 09: Client Books a Family Trip

ID	UC09
Title	Client Books a Family Trip
Description	As a client of the Rail Network, I should be able to book a family trip for travellers other than myself according to the desired connection I searched for.
Primary Actor	Client.
Preconditions	- Client has previously searched for a connection via option 2 on the terminal. - System successfully displayed the results of the search. - Client has identified a desired connections amongst the connections displayed from the search result. - Client has entered the number of travellers. - Number of travellers is more than 1. - Desired connection has available seats/capacity/space for the number of travellers. - Client inputs necessary information (name, age and id of each traveller).
Postconditions	- Trip object created. - Newly created trip has a unique id. - Reservations created for all travellers. - Ticket created for each reservation (if a client books 3 reservations for 3 travellers, then 3 tickets are created). - Trip recorded in Trip Registry. - System displays booking confirmation.
Inputs	- Selected connection (amongst connection search results). - Client information: names, ages and ids of each travellers. - Number of travellers.
Outputs	- Booking confirmation containing trip id. - Error message if there isn't enough space on connection or if failure. - Tickets information. - Trip details (connection details).
Main Success Scenario	1. Client selects the 'Book a trip' option from the terminal. 2. Client searches for a connection. 3. System displays connection search results. 4. Client selects the connection they want to book. 5. System asks for client details and client inputs details. 6. System asks if client wants to add travellers. 7. Client selects 'Yes'. 8. Steps 5 and 6 are repeated until client selects 'No' when prompted to add travellers. 9. System validates client details and makes sure no duplicate trip/reservation exists.

	10. System creates Trip and Reservation (one of each) and Ticket objects (one for each traveller client has entered details for). 10. System displays booking confirmation and details. 11. System records created trip in Trip Registry. 12. System prompts user if they want to go back to main menu or exit program.

USE CASE 10: Client Views Booked Trips

ID	UC10
Title	Client Views Booked Trips
Description	As a client of the Rail Network, I should be able to see all the trips I had previously booked.
Primary Actor	Client.
Preconditions	- Client is registered in the system (valid information/credentials). - Client has selected 'View My Trips' option on the terminal.
Postconditions	- System displays Trip History (current, upcoming and past). - Client views Trip History separated into current, upcoming and past trips.
Inputs	- Client credentials (valid information/identification). - Trip date range filter (optional). - Trip status (current, upcoming and past) filter (optional).
Outputs	- List of trips client registered for, including trip id, connection information, list of travellers, ticket information and trip status.
Main Success Scenario	1. Client selects 'View My Trips' option in terminal. 2. System asks for client credentials, similar to a login. 3. Client enters their information. 4. System validates information. 5. System searches for matching trips and retrieves all the matches. 6. System displays trips into 2 categories: upcoming/future and past. 7. System displays trips summary (total number of trips displayed, number of future trips and number of past trips). 8. Client views list of trips with a summary of details. 9. Client selects trip in the list. 10. System displays detailed information on trip and connection. 11. Client goes back to trip list. 12. System prompts user if they want to go back to main menu or exit program.