TestCases for FlyHigh Requirements & UseCases

1. Add an element UseCase

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| Basic Flow | 1. Initiate Adding - Administrator chooses an option to add an element into the system. 2. Choosing an Element - Administrator chooses what new element they want to add and then goes to: step 3 if it is a flight; step 4 if it is an airport; step 5 if it is a plane; step 6 if it is a crew member. 3. Adding a Flight - Administrator enters all the neccessary data: number, departure time, arrival time, departure place, arrival place, plane number, crew; System stores the data and the UseCase ends. 4. Adding an Airport - Administrator enters all the neccessary data: code, name, city, zipcode, country, number of gates; System stores the data and the UseCase ends. 5. Adding a Plane - Administrator enters all the neccessary data: number, model, number of seats; System stores the data and the UseCase ends. 6. Adding a Crew Member - Administrator enters all the neccessary data: name, position, address, birthdate, id, phone number, e-mail; System stores the data and the UseCase ends. |
| Alternate Flow 1 – Invalid data for a flight | In Basic Flow Step 3 – Adding a Flight, if any of the entered data is not in a valid format, an appropriate message appears and the system rejoins the Basic Flow Step 3 – Adding a Flight. |
| Alternate Flow 2 – Flight already exists | In Basic Flow Step 3 – Adding a Flight, if there already exists a flight with the entered number, an appropriate message appears and the system rejoins the Basic Flow Step 3 – Adding a Flight. |
| Alternate Flow 3 – Doubled flight | In Basic Flow Step 3 – Adding a Flight, if there already exists a flight that has the same departure place and arrival place and the departure time differs less than one hour, an appropriate message appears and the system rejoins the Basic Flow Step 3 – Adding a Flight. |
| Alternate Flow 4 – Incorrect flight date | In Basic Flow Step 3 – Adding a Flight, if the departure date or the arrival date is already past, an appropriate message appears and the system rejoins the Basic Flow Step 3 – Adding a Flight. |
| Alternate Flow 5 – Unchronological flight dates | In Basic Flow Step 3 – Adding a Flight, if the departure date is after the arrival date, an appropriate message appears and the system rejoins the Basic Flow Step 3 – Adding a Flight. |
| Alternate Flow 6 – Flight data does not exist | In Basic Flow Step 3 – Adding a Flight, if the entered plane, arrival place, departure place or crew does not exist, an appropriate message appears and the system rejoins the Basic Flow Step 3 – Adding a Flight. |
| Alternate Flow 7 – Invalid data for an airport | In Basic Flow Step 4 – Adding an Airport, if any of the entered data is not in a valid format, an appropriate message appears and the system rejoins the Basic Flow Step 4 – Adding an Airport. |
| Alternate Flow 8 – Airport already exists | In Basic Flow Step 4 – Adding an Airport, if there already exists an airport with the entered code, an appropriate message appears and the system rejoins the Basic Flow Step 4 – Adding an Airport. |
| Alternate Flow 9 – Country does not exist | In Basic Flow Step 4 – Adding an Airport, if the entered country does not exist, an appropriate message appears and the system rejoins the Basic Flow Step 4 – Adding an Airport. |
| Alternate Flow 10 – Invalid data for a plane | In Basic Flow Step 5 – Adding a Plane, if any of the entered data is not in a valid format, an appropriate message appears and the system rejoins the Basic Flow Step 5 – Adding a Plane. |
| Alternate Flow 11 – Plane already exists | In Basic Flow Step 5 – Adding a Plane, if there already exists a plane with the entered number, an appropriate message appears and the system rejoins the Basic Flow Step 5 – Adding a Plane. |
| Alternate Flow 12 – Invalid data for a crew member | In Basic Flow Step 6 – Adding a Crew Member, if any of the entered data is not in a valid format, an appropriate message appears and the system rejoins the Basic Flow Step 6 – Adding a Crew Member. |
| Alternate Flow 13 – Crew member already exists | In Basic Flow Step 6 – Adding a Crew Member, if there already exists a flight with the entered number, an appropriate message appears and the system rejoins the Basic Flow Step 6 – Adding a Crew Member. |
| Alternate Flow 14 – Incorrect birthday | In Basic Flow Step 6 – Adding a Crew Member, if the entered birthday is after the date exactly 18 years before today’s date, an appropriate message appears and the system rejoins the Basic Flow Step 6 – Adding a Crew Member. |