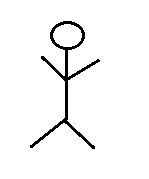
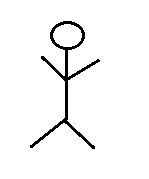
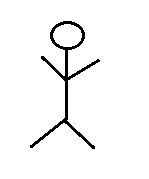
|  |
| --- |
| Choose User Type |
| Enter Flight Details |
| Enter Runway Details |
| Add New Flights |
| Add New Runways |
| Ascend the aircraft |
| Descend the aircraft |
| Approach to landing Runway |
| Abort Landing |
| Allocate regular runway |
| Allocate emergency runway |
| Deallocate runway after landing |
|  |



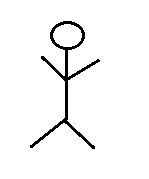
Trainee



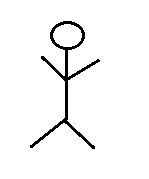
ATC Controller



Flight Manager



Aircraft



Runway

**USE CASE DESCRIPTION**

1. **Choose User Type:**
   1. Introduction

This case documents the procedure for the choosing the desired user type to simulate due to consideration of different variables in both the user type.

* Trainee (Enter flight details, enter runway details, add new flights, Add new runways)
* ATC controller (Enter runway details, Add new runways)
  1. Actors

Trainee, ATC controller

* 1. Pre-Condition

None

* 1. Post-Condition

Different simulation screens are presented to the user as per chosen user type.

* 1. Flow of Events

1.5.1 Basic Flow

The use case starts when user enters his preferred user type in to simulator.

* The system requests user to choose his/her user type from drop down menu.
* Object for the chosen type is created.
* If the user is trainee, then he is provided trainee screen to fill out simulation details.
* If the user is ATC controller the he is provided ATC controller simulation screen to create a simulation scenario.

1.5.2 Alternative Flow

* Object is not created for chosen user type then try to take user input again.
  1. Special Requirement

None

* 1. Related Use Cases

None

1. **Enter Runway Details**
   1. Introduction:

This use case documents the procedure for entering fight details as user type trainee.

* Raise Emergency signal (if required)
* Type/Size of aircraft
* Enter fuel left in the aircraft at the time of landing schedule
* Enter current altitude of the aircraft at the time of landing schedule
* Enter current speed of the aircraft at the time of landing scheduling

2.2 Actors

Trainee

2.3 Pre-Condition

Trainee must be selected be selected as user type.

* 1. Post-Condition

If input is submitted in proper format the user can add another flight. Otherwise, an error message “Input mismatch” will be displayed.

* 1. Flow of Events
     1. Basic Flow

The use case starts when the user enters flight data into the designated fields.

* The system reads and validates the input entered by the user
* Input validation is done by matching the data type of desired and entered values.
* Add another flight button is created is activated for the user to enter another flight.
* The use case ends.
  + 1. Alternative Flow
       1. Incorrect input

If the entered input is not matching with the correct data type of the every input field an error message “Input mismatch” is shown. Enter flight details

* + - 1. Pressing new flight button without filling details of previous flight

State is unchanged.

* 1. Special Requirements

None

* 1. Related Use cases

None

1. **Enter Flight Details**
   1. Introduction:

This use case documents the procedure for entering fight details as user type trainee.

* Raise Emergency signal (if required)
* Type/Size of aircraft
* Enter fuel left in the aircraft at the time of landing schedule
* Enter current altitude of the aircraft at the time of landing schedule
* Enter current speed of the aircraft at the time of landing scheduling

3.2 Actors

Trainee

3.3 Pre-Condition

Trainee or ATC Controller must be selected be selected as user type.

* 1. Post-Condition

If input is submitted in proper format the user can add another runway. Otherwise, an error message “Input mismatch” will be displayed.

* 1. Flow of Events
     1. Basic Flow

The use case starts when the user enters runway data into the designated fields.

* The system reads and validates the input entered by the user
* Input validation is done by matching the data type of desired and entered values.
* Add another runway button is activated for the user to enter another runway details.
* The use case ends.
  + 1. Alternative Flow
       1. Incorrect input

If the entered input is not matching with the correct data type of every input field an error message “Input mismatch” is shown. Enter runway details again.

* + - 1. Pressing new runway button without filling details of previous flight,

State is unchanged.

* 1. Special Requirements

None

* 1. Related Use cases

None