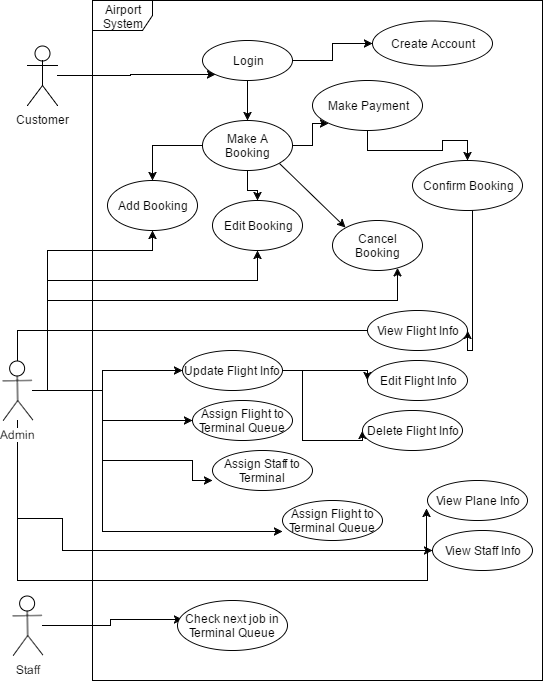
# Use Cases

USECASE2.png

**IMPROVEMENT NEEDED!!!  
  
‘I believe you need at least one more type of user, namely the staff. You may want to have different levels of staff (e.g. line manager, supervisor and technician).  
I am not sure that it should be the Admin to assign staff rather than assigning a flight to a terminal queue with all the jobs assigned to that terminal. In this case the staff assigned to that terminal just has to check the next job in the queue. Everything else looks good. ‘**

**- Pedro**

**IMPROVED VERSION OF USECASE DIAGRAM**



|  |  |  |
| --- | --- | --- |
| **ID:** 1 | **Name:** Create Account | |
| **Actors Involved:** Customer | | **Preconditions:** User runs system/ selects create from the Main Menu |
| **Main Flow**  The user enters the create account through the selection on the main menu, the user is prompted with each detail, e.g. forename, surname, phone number. Each detail is validated such as length check on phone number and format check on email address. When all valid data is entered the system asks the user for confirmation, if the user selects yes, the system will save that users valid details to the xml file. | | **Alternative Flow**   1. User enters invalid data, error message occurs, user cannot continue until valid data is entered 2. User doesn’t confirm details, system returns to the main menu without saving 3. Details entered are already in the xml file, error message occurs, create account function begins again from the start |
| **Post conditions:** Customer details are saved to the XML file | | |

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| **ID:** 2 | **Name:** Login | |
| **Actors Involved:** Customer | | **Preconditions:** user has created an account |
| **Main Flow**  The user enters the log-in through the selection on the main menu the user enters their email and password, the system checks the xml file for a matching email and password and returns the user to the main menu, logged in | | **Alternative Flow**   1. User enters invalid data; an error message occurs until the user enters valid log in details. The user cannot access features such as ‘Make a Booking’ until they have logged in successfully. |
| **Post conditions:** User returns to the main menu, logged in as an admin or regular user. | | |

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| **ID:** 3 | **Name:** Make A Booking | |
| **Actors Involved:** Customer | | **Preconditions:** user is logged in |
| **Main Flow**  The user enters the make a booking through the main menu | | **Alternative Flow**  x |
| **Post conditions:** x | | |

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| **ID:** 4 | **Name:** Add Booking | |
| **Actors Involved:** Customer, Admin | | **Preconditions:** U |
| **Main Flow** | | **Alternative Flow**  g |
| **Post conditions:** g | | |

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| --- | --- | --- |
| **ID:** 5 | **Name:** Make Payment | |
| **Actors Involved:** Customer | | **Preconditions:** x |
| **Main Flow**  x | | **Alternative Flow**  x |
| **Post conditions:** x | | |

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| **ID:** 6 | **Name:** Confirm Booking | |
| **Actors Involved:** Customer | | **Preconditions:** x |
| **Main Flow**  After | | **Alternative Flow**  x |
| **Post conditions:** x | | |

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| **ID:** 7 | **Name:** Edit Booking | |
| **Actors Involved:** Customer, Admin | | **Preconditions:** U |
| **Main Flow**  After a user, has made a booking, that is saved in the xml file, the user selects ‘Edit Booking’ in which their data is appended as their current booking is removed and replaced with a new booking as the user selects the flight locations, times and seat allocation, the new booking is then appended in the booking xml file. | | **Alternative Flow**  g |
| **Post conditions:** g | | |

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| **ID:** 8 | **Name:** Cancel Booking | |
| **Actors Involved:** Admin, Customer | | **Preconditions:** U |
| **Main Flow**  After a user, has made a booking, that is saved in the xml file, the user selects ‘Edit Booking’ in which their booking is deleted and appends the booking xml file for that booking from the user, the seat allocation removed from the system will then we available again the Make a Booking section. | | **Alternative Flow**  g |
| **Post conditions:** | | |

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| **ID:** 9 | **Name:** View Flight Info | |
| **Actors Involved:** Admin, Customer, Staff | | **Preconditions:** the user is logged into the system |
| **Main Flow**  When the View Flight Info is selected from the menu regardless of access level, the flight info is displayed for each terminal, the timeboard displays all times, previously sorted by time using Quicksort and placed in the queue. | | **Alternative Flow**  g |
| **Post conditions:** | | |

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| **ID:** 10 | **Name:** Update Flight Info | |
| **Actors Involved:** Admin | | **Preconditions:** U |
| **Main Flow**  D | | **Alternative Flow**  g |
| **Post conditions:** g | | |

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| --- | --- | --- |
| **ID:** 11 | **Name:** Edit Flight Info | |
| **Actors Involved:** Admin | | **Preconditions:** U |
| **Main Flow**  d | | **Alternative Flow**  g |
| **Post conditions:** g | | |

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| --- | --- | --- |
| **ID:** 12 | **Name:** Delete Flight Info | |
| **Actors Involved:** Admin | | **Preconditions:** U |
| **Main Flow**  d | | **Alternative Flow**  g |
| **Post conditions:** g | | |

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| **ID:** 13 | **Name:** Assign staff to terminal | |
| **Actors Involved:** Admin | | **Preconditions:** U |
| **Main Flow**  d | | **Alternative Flow**  g |
| **Post conditions:** g | | |

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| --- | --- | --- |
| **ID:** 14 | **Name:** Assign flight to terminal queue | |
| **Actors Involved:** Admin | | **Preconditions:** U |
| **Main Flow**  d | | **Alternative Flow**  g |
| **Post conditions:** g | | |

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| --- | --- | --- |
| **ID:** 15 | **Name:** View Plane info | |
| **Actors Involved:** Admin | | **Preconditions:** U |
| **Main Flow**  d | | **Alternative Flow**  g |
| **Post conditions:** g | | |

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| --- | --- | --- |
| **ID:** 16 | **Name:** View Staff info | |
| **Actors Involved:** Admin | | **Preconditions:** The user must be signed in as admin |
| **Main Flow**  When the admin is logged in, from the admin menu the user selecy | | **Alternative Flow**  g |
| **Post conditions:** g | | |

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| **ID:** 17 | **Name:** check next job in terminal queue | |
| **Actors Involved:** Staff | | **Preconditions:** U |
| **Main Flow**  d | | **Alternative Flow**  g |
| **Post conditions:** g | | |