|  |  |
| --- | --- |
| Client | Recognized airline |
| User | Crew members |
| Requirements | R1. The system must load the information corresponding to the passengers of a flight.  R2. The system must register passenger information and the arrival time.  R3 The system must register flight information.  R4. The system must prioritize passengers by a hierarchy of given conditions of priority.  R5. The system must show the order of entry to the aircraft.  R6. The system should allow the exit to be dictated in such a way that those closest to the door exit first. |
| Context | Our team ha s been appointed to develop software for a well known airline that will allow the airline to improve its processes when handling incoming and outgoing flights. |
| Non-Functional requirements | NFR1. The search and register actions must be done in the most efficient way |
| Process requirements | PR. |

|  |  |  |  |
| --- | --- | --- | --- |
| Name or identifier | R1. Load passengers information | | |
| Summary | The system must load the information corresponding to the passengers of a flight. | | |
| Inputs | **Name** | **Data type** | **Selection or repetition condition** |
| flyinfo | Txt | must be different from null |
| General activities necessary to obtain the results | 1. select the flight information to be loaded. 2. in case the data exists, the system must load it. | | |
| Result or Postcondition | the system will store the corresponding flight data | | |
| Outputs | **Name** | **Data type** | **Selection or repetition condition** |
| msg | String | the message will show whether or not the flight information was uploaded. |

|  |  |  |  |
| --- | --- | --- | --- |
| Name or identifier | R2: Register Passenger Arrival | | |
| Summary | R2. The system must register passenger information and the arrival time. | | |
| Inputs | **Name** | **Data type** | **Selection or repetition condition** |
| Name | String | Cant be null |
| Id | Int | Cant be null |
| Ticket | String | Cant be null |
| Miles | Int | Cant be null or less than 0. |
| isFirstClass | boolean | Cant be null. |
| ArrivalTime | Calendar | Null if passenger doesn’t show up. |
| Age | int | Cant be less than 0 or null. |
| typeHelp | typeHelp | Cant be null. |
| InAircraft | boolean | Cant be null. |
| General activities necessary to obtain the results | 1.The system registers passenger data.  2.The system modifies ArrivaTime. | | |
| Result or Postcondition | A list showing all passengers who arrived with their respective arrival times should be generated if ArrivalTime is null deletes. | | |
| Outputs | **Name** | **Data type** | **Selection or repetition condition** |
|  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Name or identifier | R3: Register flight info | | |
| Summary | The system must register flight information. | | |
| Inputs | **Name** | **Data type** | **Selection or repetition condition** |
| numRowsNormal | Int | Cant be null |
| numRowsFirstClass | Int | Cant be null |
| numSeatsPerRow | Int | Cant be null |
| General activities necessary to obtain the results | 1.uploads txt  2.system creates new fight | | |
| Result or Postcondition | Creates new flight to place passengers | | |
| Outputs | **Name** | **Data type** | **Selection or repetition condition** |
| msg | String | “new flight created” |

|  |  |  |  |
| --- | --- | --- | --- |
| Name or identifier | R4: Priority List | | |
| Summary | R4: System must classify passengers in order of priority list, by hierarchy of section and time of arrival. If its first class the priority is retirement age, special needs, accumulated miles, time of arrival. | | |
| Inputs | **Name** | **Data type** | **Selection or repetition condition** |
| Passenger List | Array | If Array is empty, If Array is full. |
| General activities necessary to obtain the results | 1. inputs passenger list array | | |
| Result or Postcondition | Returns priority queue of passengers in order of entry. | | |
| Outputs | **Name** | **Data type** | **Selection or repetition condition** |
| Entry List | Array | must be different from null |

|  |  |  |  |
| --- | --- | --- | --- |
| Name or identifier | R5: Entry List | | |
| Summary | The system must show the order of entry to the aircraft. | | |
| Inputs | **Name** | **Data type** | **Selection or repetition condition** |
| Entry List | Array | must be different from null |
| General activities necessary to obtain the results | 1.system must read the input list  2.the system will display the list on the screen | | |
| Result or Postcondition | a list should be generated showing all passengers who arrived with their respective arrival times | | |
| Outputs | **Name** | **Data type** | **Selection or repetition condition** |
| msg | String | must be a length different from 0 |

|  |  |  |  |
| --- | --- | --- | --- |
| Name or identifier | R6: Exit List | | |
| Summary | The system should allow the exit to be dictated in such a way that those closest to the door exit first. | | |
| Inputs | **Name** | **Data type** | **Selection or repetition condition** |
| Seating order | Array | If empty |
| General activities necessary to obtain the results | 1.the system will read the aircraft's exit list  2.based on this list, we will start giving out according to the order until there is no one left on the list. | | |
| Result or Postcondition | a message should be displayed with all the packages that went out | | |
| Outputs | **Name** | **Data type** | **Selection or repetition condition** |
| msg | String | must be a length different from 0 |