**SOFTWARE ENGINEERING PROBLEM SPECIFICATION TABLE:**

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|---|---|
| **CLIENT** | The airline |
| **USER** | Airline staff |
| **FUNCTIONAL REQUIREMENTS** | - R1. Load information about all passengers of a fly<br>- R2. Search passenger<br>- R3 Show the get on order<br>- R4 Show the get out order |
| **PROBLEM CONTEXT** | A renowned airline needs a system to organize the order that the users could follow to get on the plane and the order to get out the plane. |

**Functional Requirements Analysis Tables:**

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|---|---|---|---|
| Name or ID | R1. Load information about all passengers of a fly | | |
| Summary | The system must allow to load all information about all passengers of a fly by one input | | |
| Inputs | Input name | Data type | Selection or repetition condition |
| | passengers | String | If the user is trying to load the information about passengers of a fly |
| General activities necessary to achieve the results | The system must instance all entered passengers using passenger and FCPassenger classes and save them in a hash table. | | |
| Result or postcondition | The passengers will be available to start the expenting for the fly | | |
| Outputs | Output name | Data type | Selection or repetition condition |
| | success | String | If all passengers were added to the system |
| | error | String | If there was an error and the passengers weren't added |

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|---|---|---|---|
| Name or ID | R2. Search for passengers. | | |
| Summary | When the passengers are arriving at the airport, the system must be able to search a passenger from the registered data about the fly. | | |
| Inputs | Input name | Data type | Selection or repetition condition |
| | id | String | If a passenger is trying to get to the plane |
| General activities necessary to achieve the results | The system must check if the passenger is registered at the data fly. If the player is registered in the data, the system must put the passenger in a queue, depending on his priority, to get on the plane. Else, the system must show an error message. | | |
| Result or postcondition | The passenger will be waiting in a queue,depending on his priority, for get on the plane or the system will show an error message. | | |
| Outputs | Output name | Data type | Selection or repetition condition |
| | success | String | If the passenger was registered at the data fly |
| | error | String | If the passenger wasn't registered at the data fly |

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|---|---|---|---|
| Name or ID | R3. Show the get on order | | |
| Summary | The system must be able to show the get on order for the fly | | |
| General activities necessary to achieve the results | The system must construct a string with the get on order. For that, the system must consider the arrival order and the priority of the first class passengers. | | |
| Result or postcondition | The system must show a String with the get on order. | | |
| Outputs | Output name | Data type | Selection or repetition condition |
| | order | String | If the fly is going to start |

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|---|---|---|---|
| Name or ID | R4. Show the get out order | | |
| Summary | The system must be able to show the get out order for the fly | | |
| General activities necessary to achieve the results | The system must construct a string with the get out order. For that, the system must consider that the passengers must get out depending of his closeness to the aisle. | | |
| Result or postcondition | The system must show a String with the get out order. | | |
| Outputs | Output name | Data type | Selection or repetition condition |
| | order | String | If the fly has finished |

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|---|---|---|---|
| Name or ID | | | |
| Summary | | | |
| Inputs | Input name | Data type | Selection or repetition condition |
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| General activities necessary to achieve the results | | | |
| Result or postcondition | | | |
| Outputs | Output name | Data type | Selection or repetition condition |
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