Identification of the problem:

In general, the problem relates to the organization and management of data and processes to ensure efficient and satisfactory service for the airline's customers. The problem focuses on how to load passenger data into the system, how to search and record information of passengers arriving at the boarding lounge, and how to sort passengers for boarding the aircraft. In addition, there is an additional problem of how to handle first class passengers in a special way at the time of boarding.

gathering the necessary information:

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| --- | --- |
| CLIENT | airline |
| USER | airline administrator |
| FUNCTIONAL REQUIREMENT | RF1: The system must be able to load passenger information for a flight by means of a plain text file.  RF2: The system must be able to efficiently search for complete passenger information once a passenger arrives at the boarding lounge.  RF3: The system must be able to record the arrival of a passenger at the boarding lounge.  RF4: The system must be able to show the crew member in charge in which order passengers should enter the aircraft.  RF5: The system must allow priority to be given to first class passengers based on mileage accrual, special care required, seniority or other relevant data. |
| NO FUNCTIONAL REQUIREMENT | RNF1: The system must be efficient in searching for passenger information, even when the amount of data is significantly very large.  RNF2: The system must be easy to use for the crew member in charge.  RNF3: The system must be secure and reliable, guaranteeing the privacy of passenger information.  RNF4: The system must be scalable,  permitiendo la adición de nuevas funcionalidades en el futuro.  RNF5: The system should be developed using good programming practices and industry standards to ensure its quality and maintainability. |