Requirements - Shqipe Airline

Functional Requirements

Requirement Number	*Requirement*	*Comment*
1	The system shall allow admins to monitor user accounts and permissions, ensuring effective security measures.	Admins can oversee user accounts and permissions.
2	The system shall incorporate client feedback for evaluating flight booking process performance.	Uses client feedback to improve the booking process.
3	The system shall analyze flight frequency data in reports to enhance booking pattern understanding over time.	Analyzes flight frequency data to understand booking trends.
4	The system shall allow admins to access financial reports.	Provides financial reports access to admins.

Use Cases

The system shall allow admins to monitor user accounts and permissions, ensuring effective security measures.

UC Name	*UC - 01* *User Account and Permission Management*
Summary	This requirement allows admins to oversee user accounts and permissions within the system. Admins have the authority to control user access and privileges for those under their supervision, which helps to maintain security procedures and manage resources effectively.

Dependency	
Actors	*Primary Actor:* Admin *Secondary Actor:* System
Preconditions	• The system must be operational and accessible. • The admin must be authenticated and logged into the system. • User accounts must already exist within the system.
Description of the Main Sequence	• *Step 1:* The admin accesses the user account management interface within the system. • *Step 2:* The system displays a list of existing user accounts, along with their associated permissions. • *Step 3*: The admin selects a specific user account they wish to modify. • *Step 4:* The system presents options to edit the permissions or details of the selected user account. • *Step 5:* The admin makes the necessary changes to the user account, such as adjusting permissions or updating user information. • *Step 6:* The admin confirms the changes made. • *Step 7:* The system updates the user account according to the modifications made by the admin. • *Step 8:* The use case concludes, returning the admin to the user account management interface.

Description of the Alternative Sequence	• **Step 1:** If the selected user account is not found in the system, the admin receives a notification indicating the account does not exist. • **Step 2:** The use case concludes, returning the admin to the user account management interface.
Non functional requirements	• **Performance:** Achieve quick response times and support concurrent operations efficiently. • **Security:** Ensure all operations are over secure. • **Scalability:** The system should be capable of handling a large number of accounts. • **Reliability:** Ensure high availability, minimal downtime, and regular data backups for system integrity.
Postconditions	The system correctly implements and reflects the changes the admin makes to the user account, ensuring that any changes to permissions or user details are accurately updated.

The system shall incorporate client feedback for evaluating flight booking process performance.

UC Name	**UC - 02 Incorporate Client Feedback**
Summary	This requirement ensures that client feedback is considered in evaluating the performance of the flight booking process.
Dependency	

Actors	***Primary Actor:*** Passengers ***Secondary Actor:*** System, Admin
Preconditions	• The system must be operational and accessible. • The system must have a mechanism in place for clients to submit reviews or feedback about their experience. • Clients must have interacted with the system or its services to provide meaningful reviews or feedback. • The admin must be authenticated and logged into the system. • Admins must have appropriate permissions to access and analyze the feedback data. • The system should have infrastructure in place to collect, store, and manage client reviews efficiently.
Description of the Main Sequence	• ***Step 1:*** Clients submit reviews or feedback through the designated feedback mechanism provided by the system. • ***Step 2:*** Admins review and analyze the received feedback to identify common themes, trends, or areas for improvement. • ***Step 3:*** Based on the analysis, prioritization, and decision-making process, relevant changes or enhancements are identified for incorporation into the system.
Description of the Alternative Sequence	• ***Step 1:*** In case the feedback mechanism provided by the system is not accessible or malfunctioning, clients may resort to alternative communication channels such as email, phone calls to provide their feedback. • ***Step 2:*** Admins manually gather feedback received through alternative channels and document them for analysis.

	• **Step 3:** The analysis of feedback gathered through alternative channels may differ in process or priority compared to feedback received through the system's designated mechanism. • **Step 4:** Based on the analysis, relevant changes or enhancements are identified for incorporation into the system, considering both feedback received through the system and alternative channels.
Non functional requirements	• **Scalability**: System should handle multiple users without performance degradation. • **Availability**: Maintain uptime, with minimal scheduled maintenance during off-peak hours. • **Reliability**: Ensure accurate data retrieval and display with built-in redundancy and failover mechanisms.
Postconditions	The successful retrieval, selection, and utilization of client feedback to enact system improvements.

The system shall analyze flight frequency data in reports to enhance booking pattern understanding over time.

UC Name	**UC - 03 Include Flight Frequency Data**
Summary	This requirement ensures that the reports offer comprehensive analysis by considering the frequency of flight occurrences, allowing for a deeper understanding of booking patterns and trends over time.
Dependency	

Actors	***Primary Actor:*** Admin ***Secondary Actor:*** System
Preconditions	- The system must be operational and accessible. - Flight frequency data must be accessible. - The admin must be authenticated and logged into the system. - Admins must have necessary permissions to access and integrate data. - The system must be compatible with the format and structure of the flight frequency data. - Adequate technical resources must be available for data integration. - Clear documentation and understanding of requirements are necessary.
Description of the Main Sequence	***Step 1:*** Admin accesses flight frequency data. ***Step 2:*** Validate compatibility of the data format and structure with the system. ***Step 3:*** Configure necessary permissions and settings for data integration. ***Step 4:*** Implement data integration procedures into the system. ***Step 5:*** Conduct testing to ensure accuracy and functionality of integrated data. ***Step 6:*** Provide documentation as needed for users accessing flight frequency data within the system. ***Step 7:*** Monitor ongoing data updates and system performance to maintain data accuracy and reliability.

Description of the Alternative Sequence	• ***Step 1:*** If flight frequency data is unavailable, initiate communication with alternative data providing channels. • ***Step 2:*** Adapt data integration procedures to accommodate different data formats or structures from alternative sources. • ***Step 3:*** Validate the quality and reliability of data obtained from alternative sources through thorough testing and validation processes.
Non functional requirements	• ***Performance***: Ensure fast data processing and display. • ***Scalability***: System should handle multiple users without performance degradation. • ***Availability***: Maintain uptime, with minimal scheduled maintenance during off-peak hours. • ***Reliability***: Ensure accurate data retrieval and display with built-in redundancy and failover mechanisms. • ***Security***: Adhere to industry-standard security practices, including encryption, access controls, and regular audits.
Postconditions	The system successfully integrates accurate and accessible flight frequency data, ensuring stability, updated documentation and ongoing monitoring for reliability.

The system shall allow admins to access financial reports.

UC Name	***UC - 04 Financial Reports***
Summary	This requirement involves admins accessing financial reports

Dependency	
Actors	***Primary Actor:*** Admin ***Secondary Actor:*** System
Preconditions	• The system must be operational and accessible. • The admin must be authenticated and logged into the system.
Description of the Main Sequence	• ***Step 1:*** Admins are directed to the financial reports interface. • ***Step 2:*** They request the needed financial data • ***Step 3:*** The system retrieves the requested financial data and generates the report. • ***Step 4:*** The system presents the report in a user-friendly format (table, graphic,charts). • ***Step 5:*** Admins analyze the presented data to gain insights in financial health.
Description of the Alternative Sequence	• ***Step 1:*** If the system encounters an error and is unable to retrieve the required data, it displays an error message and admins notify of the issue.
Non functional requirements	• ***Security:*** Access to financial reports should be restricted to authorized staff only to maintain data confidentiality. • ***Usability:*** The system interface for accessing financial reports should be intuitive and easy to navigate for shareholders.
Postconditions	Admins have successfully accessed financial reports