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Student Kit

Objective

The Airport Feedback App aims to automate the feedback collection process at airports, allowing passengers to submit real-time feedback on airport services (e.g., staff, lounges, cleanliness). Admins can view and manage this feedback to enhance service quality and passenger satisfaction. The app aims to replace the traditional paper-based feedback system with a more efficient, web-based platform accessible via the airport's Wi-Fi.

Requirements Specification (RS)

A Requirements Specification (RS) document is a critical component of software development projects. It outlines the detailed functional and non-functional of the system that needs to be developed. Below is an example of how you can structure an RS document for an Online Telephone & Newspaper Billing System:

Sr No.	Requirement	Essential/Desirable	Description	Remarks
RS1	User Registration	Essential	Allows passengers to register on the system to provide feedback.	
RS2	User Login	Essential	Enables registered users to log in to provide feedback and view flight details.	
RS3	Submit Feedback	Essential	Users can rate various airport departments (e.g., lounge, staff, cleanliness) on a scale of 1-5 and submit written feedback.	
RS4	View Flight Details	Desirable	Passengers can view flight details using the flight number.	

RS5	Admin Login	Essential	Admins can log in to view and manage feedback.	
RS6	Filter Feedback	Essential	Admins can filter feedback by criteria such as department, rating, and time period.	
RS7	Feedback Analysis (with Machine Learning)	Desirable	The system can generate reports analyzing feedback trends using machine learning.	
RS8	Password Reset	Essential	Admins and users can reset their passwords.	
RS9	Notification System	Desirable	The system sends notifications to admins when new feedback is received.	
RS10	Data Security	Essential	Ensures that only authorized users (admins) can view sensitive feedback data.	

Database Fields Specification

Passenger Table :

No.	Field Name	Range of valid values for the field	Remarks
1	Passenger ID	Integer (1 to 10000)	Unique identifier for each passenger
2	First Name	Up to 15 characters in length.	Special characters like underscore are not allowed.
3	Last Name	Up to 15 characters in length.	Special characters like underscore are not allowed.

| 4	Email id	Up to 30 characters in length with valid email id rules.	Passenger's contact email
5	Password	Up to 15 characters in length.	Special characters like underscore are allowed.
6	Flight Number	Alphanumeric	Passenger's flight number

Feedback Table :

No	Field Name	Range of Valid Values	Remark
1	Feedback ID	Integer (1 to 10000)	Unique identifier for each feedback entry
2	Passenger ID	Integer (1 to 10000)	Linked to the passenger providing feedback
3	Department	String (e.g., Lounge, Staff)	The department being rated
4	Rating	Integer (1 to 5)	Passenger's rating of the department
5	Comments	String (up to 500 characters)	Optional feedback comments
6	Submission Date	Date	Date and time when the feedback was submitted

Admin Table :

No	Field Name	Range of Valid Values	Remark
1	Admin ID	Integer (1 to 10000)	Unique identifier for each admin
2	Name	String (up to 30 characters)	Admin's name
3	Email	Valid email format	Admin's contact email
4	Password	Alphanumeric (up to 15 chars)	Encrypted password

High-Level Design (HLD)
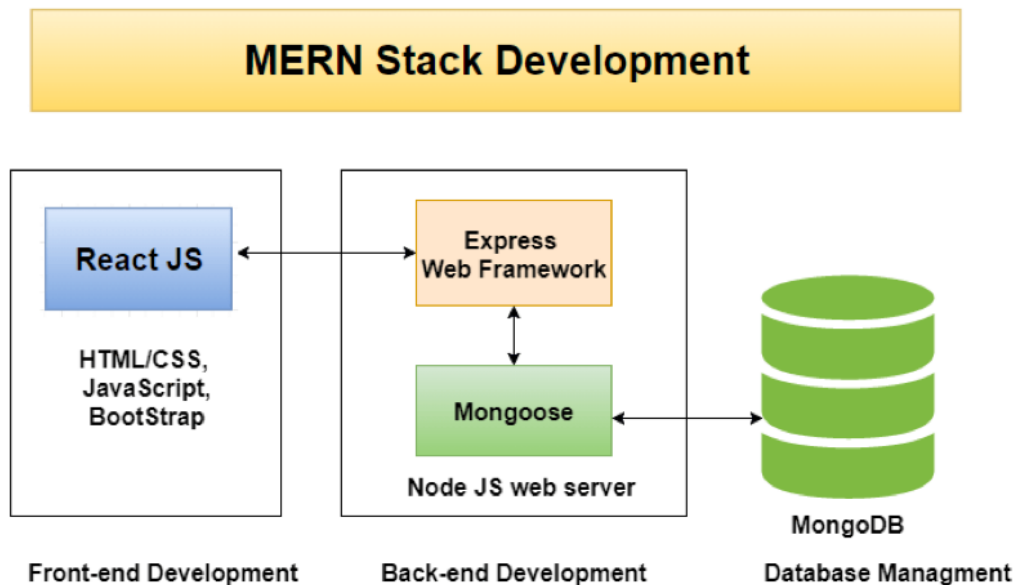
Passenger Side :

1. **Login/Registration:** Passengers create an account or log in to submit feedback.
2. **Feedback Submission:** Rate services (1-5) and provide optional comments.
3. **View Flight Details:** Passengers can search flight details by flight number.
4. **Profile Management:** Passengers can update their contact information and password.

Admin Side:

1. **Login:** Admins log in to manage feedback.
2. **Feedback Management:** Admins view, filter, and analyze feedback.
3. **Reports & Analysis:** Admins generate reports on feedback trends using machine learning.
4. **Password Reset:** Admins can reset their account password.

Test-Plan (TP)

The test-plan is basically a list of test cases that need to be run on the system. Some of the test cases can be run independently for some components (report generation from the database, for

example, can be tested independently) and some of the test cases require the whole system to be ready for their execution. It is better to test each component as and when it is ready before integrating the components.

It is important to note that the test cases cover all the aspects of the system (ie, all the requirements stated in the RS document).

Se No.	Test Case Title	Description	Expected Result	Requirement in RS Table	Results
1	User Registration	Test passenger registration.	Passenger successfully creates a new account.	RS1	Passed
2	User Login	Test user login with valid credentials.	Passenger logs in successfully.	RS2	Passed
3	Submit Feedback	Test the feedback submission process.	Feedback is submitted with a rating and comments.	RS3	Passed
4	Admin Login	Test admin login with valid credentials.	Admin logs in successfully.	RS4	Passed
5	Filter Feedback	Test feedback filtering by department and rating.	Admin can filter feedback based on the selected criteria.	RS5	Passed
6	Feedback Analysis	Test generation of feedback analysis using machine learning.	The system generates trend reports from the feedback data.	RS6	Passed
7	Password Reset	Test password reset functionality.	Users and admins can reset their passwords via email.	RS7	Passed