Final Sprint Backend and Frontend Deployment

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The final sprint project is a Flight and Airport Management System developed as part of the SDAT Summer 2025 final sprint. The system allows users to manage flights, airports, airlines, and gates through a backend REST API and a user-friendly React-based frontend.

The backend is built with Java Spring Boot and uses MySQL for persistent storage. The database is hosted on AWS RDS, and the backend is containerized with Docker and deployed to AWS ECS. The frontend is built with React and deployed to AWS S3, pulling live data from the backend.

As the Backend Lead, I was responsible for:

* Designing and implementing all backend REST API endpoints
* Configuring the MySQL database locally and on AWS RDS
* Dockerizing then backend and pushing images to AWS ECR
* Deploying the backend on AWS ECS and connecting it to the frontend.