MAJOR PROJECT - 20MX41

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TITLE: AUTOAEROSYNC

Abstract:

AutoAeroSync is an important upgrade to existing aircraft fleet maintenance system, focusing on improving the On-boarding process. This plug-in automates the extraction of data from various PDF formats, eliminating the need for manual entry and ensuring accuracy and speed. Engineers review and correct the extracted data, while auditors validate it. The system also includes a dynamic status tracking feature for continuous modifications. AutoAeroSync aims to minimize errors, reduce processing times, and enhance efficiency in maintaining accurate aircraft records on our platform. This project not only improves aircraft fleet management but also advances automated data extraction and integration into existing application's database.

Objectives of proposed system:

- Automated Data Extraction
- Reduced Dependency on Manual Input
- Time-Efficient Processes

Technology:

- RedwoodJS - FullStack Web Application Framework

Identified Modules:

- Authentication & Authorization Module
- RBAC (Role-Based Access Control) Module
- Send Email Module
- Invoking FastAPI for PDF Extraction Module
- Data Review & Correction Module
- Comment Management Module
- Dynamic PDF-Status Tracking Module
- Final Data Integration Module

Work Done So Far:

- Basic Setup for SignUp and SignIn using Clerk Authentication provider
- Onboarding Form Design
- Storing PDFs into AWS S3