Abstract

The **Insurance Policy Management System** is a comprehensive full-stack web application designed to streamline the lifecycle of insurance products, including Life, Health, and Motor policies. Built using **ASP.NET Core Web API** and **Angular**, the system addresses the inefficiencies of manual policy onboarding and delayed claim processing by providing a centralized, role-based platform for Admins, Agents, and Customers.

The backend is developed with **Clean Architecture** principles, utilizing **Entity Framework Core** for robust data management and **JWT Authentication** for secure access. A key technical highlight of the system is the implementation of a **Soft-Delete mechanism (Feature C)**; instead of removing records, the system preserves data integrity by managing "Active/Inactive" states, reflecting real-world enterprise standards for audit trails.

On the frontend, the application offers an intuitive user experience powered by **Angular Material**. To enhance decision-making, the system integrates **dynamic data visualization (Feature B)**, using interactive charts to display policy distributions and claim statuses. By automating workflows—from policy issuance to claim settlement—and providing real-time status tracking, the project demonstrates a scalable solution for modernizing insurance operations while ensuring high code quality and data persistence.