

## **1. Insurance Policy Management System**

### **Project Description**

The Insurance Policy Management System is a web-based application developed to manage insurance policies and customer policy details. It enables insurance providers to create policies, assign them to customers, and track policy status throughout its lifecycle.

The Angular frontend provides screens for policy creation, customer enrollment, and policy tracking. The Spring Boot backend handles policy processing, validations, and database operations using Spring Data JPA. The application is containerized using Docker and deployed on Azure cloud infrastructure for scalable and reliable access.

### **Key Objectives**

- Digitize insurance policy management processes
- Improve tracking and visibility of policy information

### **Core Functionalities**

- Create and manage insurance policies
- Register customers and assign policies
- Track policy status (Active, Expired, Pending)
- View policy details including premium and duration
- Validate policy data and handle exceptions

### **Technology Stack**

- Frontend: Angular
- Backend: Spring Boot, Spring Data JPA
- Database: PostgreSQL / MySQL / H2
- DevOps: Docker, Azure App Service