InsurAI - Corporate Policy Automation & Intelligence System

# Introduction

InsurAI is a smart insurance management platform designed to:  
• Automate corporate policy management  
• Ensure accuracy in insurance operations  
• Provide transparency in claims and applications  
• Improve customer satisfaction through AI-driven services

# System Architecture

The system follows a 3-tier architecture:  
1. Frontend: Web Application (HTML, CSS, JS)  
2. Backend: Java Spring Boot REST APIs  
3. Database: MySQL / PostgreSQL (SQL-based)  
  
Integration via secure REST endpoints with JWT authentication.

# Database Schema

Main Entities:  
• Users – Stores personal details & login credentials  
• Policies – Defines insurance products  
• Applications – Tracks insurance applications  
• Claims – Manages claim requests & status  
  
Relationships:  
• One user → many applications  
• One user → many claims

# Backend Modules (Java + SQL)

1. Authentication Module  
 • Signup, Login, JWT-based security  
  
2. Policy Management  
 • Retrieve insurance policies  
 • Agent management  
  
3. Application Management  
 • Apply for insurance  
 • Track status (Submitted, Approved, Rejected)  
  
4. Claims Management  
 • Submit claims with documents  
 • Admin review and status update

# System Workflow

1. User registers or logs in (JWT authentication)  
2. User views available insurance policies  
3. User applies for insurance (stored in DB)  
4. User can submit claims with proof  
5. Admin verifies and updates claim/application status  
6. Users track status via Profile section

# Key Benefits

• Automation reduces manual work  
• Secure authentication using JWT  
• Centralized database ensures consistency  
• Faster claims & policy approvals  
• Scalable architecture for corporate use  
• Integration-ready for AI-driven risk analysis

# Conclusion & Future Scope

InsurAI with Java + SQL backend provides a reliable foundation for corporate policy automation and intelligence.  
  
Future Enhancements:  
• AI-based fraud detection  
• Predictive analytics for policy pricing  
• Cloud deployment for scalability  
• Mobile application support