



# Java-InsurAI: Corporate Policy Automation & Intelligence System

AI-Powered Voice Recognition System for Automated Policy Management and Customer Service

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# Introduction

## Project Overview:

Java-InsurAI is an AI-driven corporate insurance automation platform designed to simplify and streamline policy management. It integrates intelligent voice recognition and scheduling capabilities to enhance customer-agent interaction and operational efficiency.

## Objectives:

- Automate the end-to-end process of corporate policy management.
- Provide users with seamless appointment scheduling and policy tracking.
- Use AI and voice recognition to handle customer queries efficiently.
- Offer a secure environment with authentication using JWT tokens.

# Problem Statement

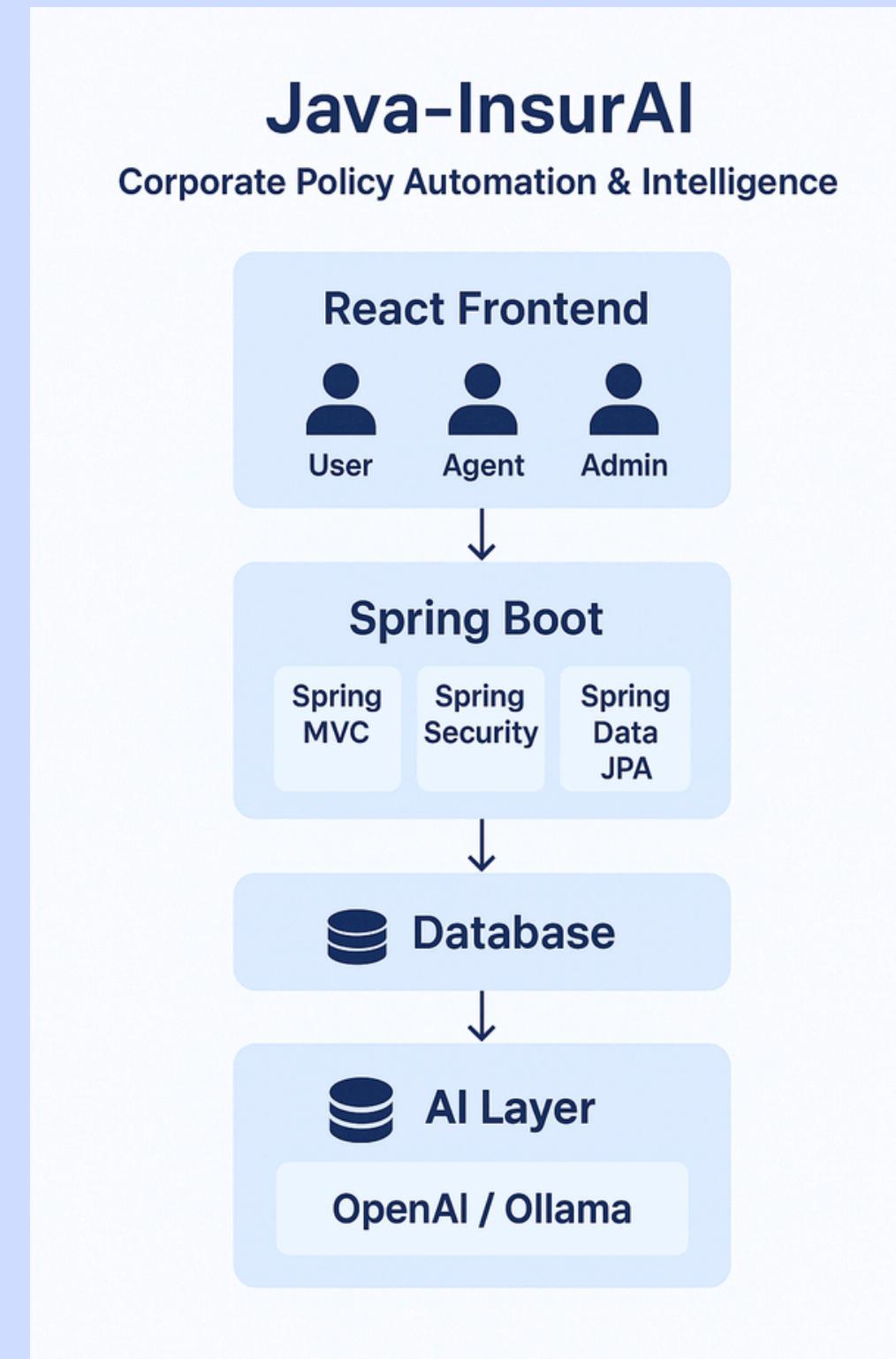
## Challenges Identified:

- Manual policy handling processes cause inefficiency and delays.
- Lack of proper communication channels between customers and agents.
- Absence of AI-based assistance results in slow query resolution.

# Solution Domain

- AI-powered voice recognition for query resolution.
- Automated appointment and plan management.
- Real-time agent scheduling and tracking.
- Enhanced customer and agent experience via smart dashboards.

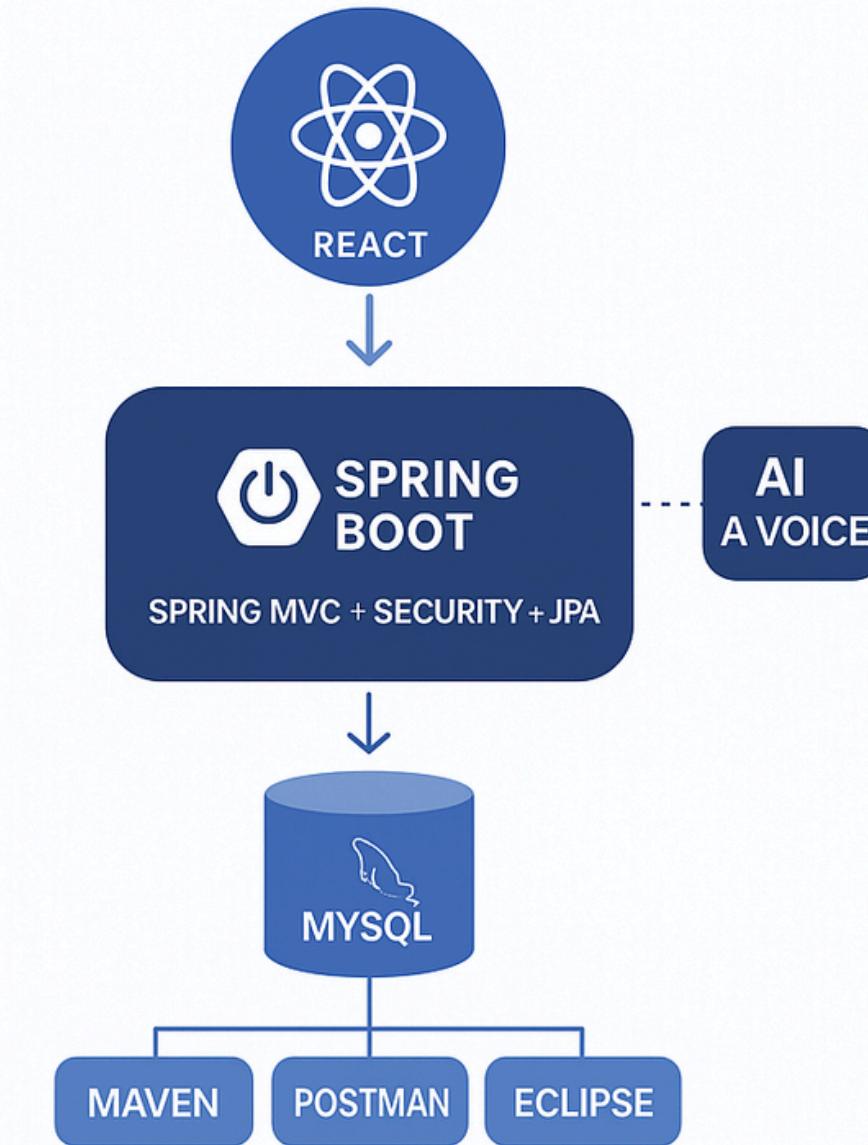
# System Architecture Diagram



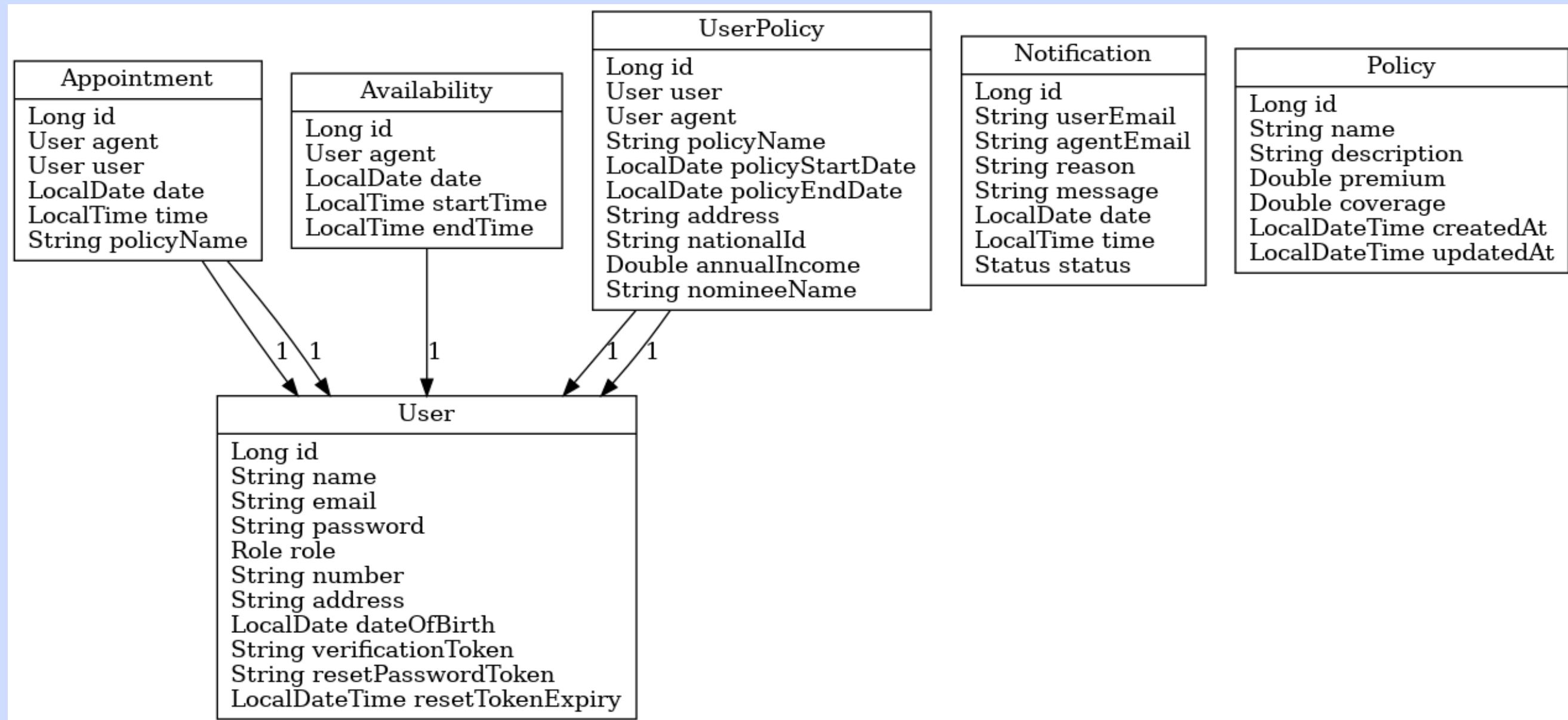
# Technology Stack

## Technology Stack

Layer	Technologies
Frontend	React
Backend	Spring Boot (Spring MVC, Spring Security)
Database	MySQL
AI & Voice	OpenAI
Tools	Maven, Postman, Eclipse



# Class diagram



# Modules Overview

The Java-InsurAI Corporate Policy Application consists of the following key modules:

1. Authentication (JWT)
2. Voice Recognition
3. Appointment Scheduling
4. Agent Availability
5. Plan Management
6. Notification System
7. Admin Dashboard

# Module Implementation

## 1. User Authentication & JWT

The screenshot displays the homepage of the InsurAi insurance platform. At the top, there is a navigation bar with the InsurAi logo, Home, About, Services, Contact, Login, and Sign Up buttons. The main header features the text "Welcome to InsurAi" and a subtitle describing it as a "Revolutionary AI-powered insurance platform that puts you in control. Smart protection for a smarter future." Below this, there are two calls-to-action: "Get Started Free" and "Learn More". A section titled "Why Choose InsurAi?" highlights the company's cutting-edge technology and customer-first approach. At the bottom, four cards showcase the platform's features: "Comprehensive Coverage" (blue icon), "AI-Powered Solutions" (purple icon), "Instant Claims" (orange icon), and "Mobile First" (yellow icon). Each card has a brief description below it.

**Welcome to InsurAi**

Revolutionary AI-powered insurance platform that puts you in control.  
Smart protection for a smarter future.

Get Started Free    Learn More

**Why Choose InsurAi?**

Experience insurance like never before with our cutting-edge technology and customer-first approach.

**Comprehensive Coverage**

**AI-Powered Solutions**

Experience the future of

**Instant Claims**

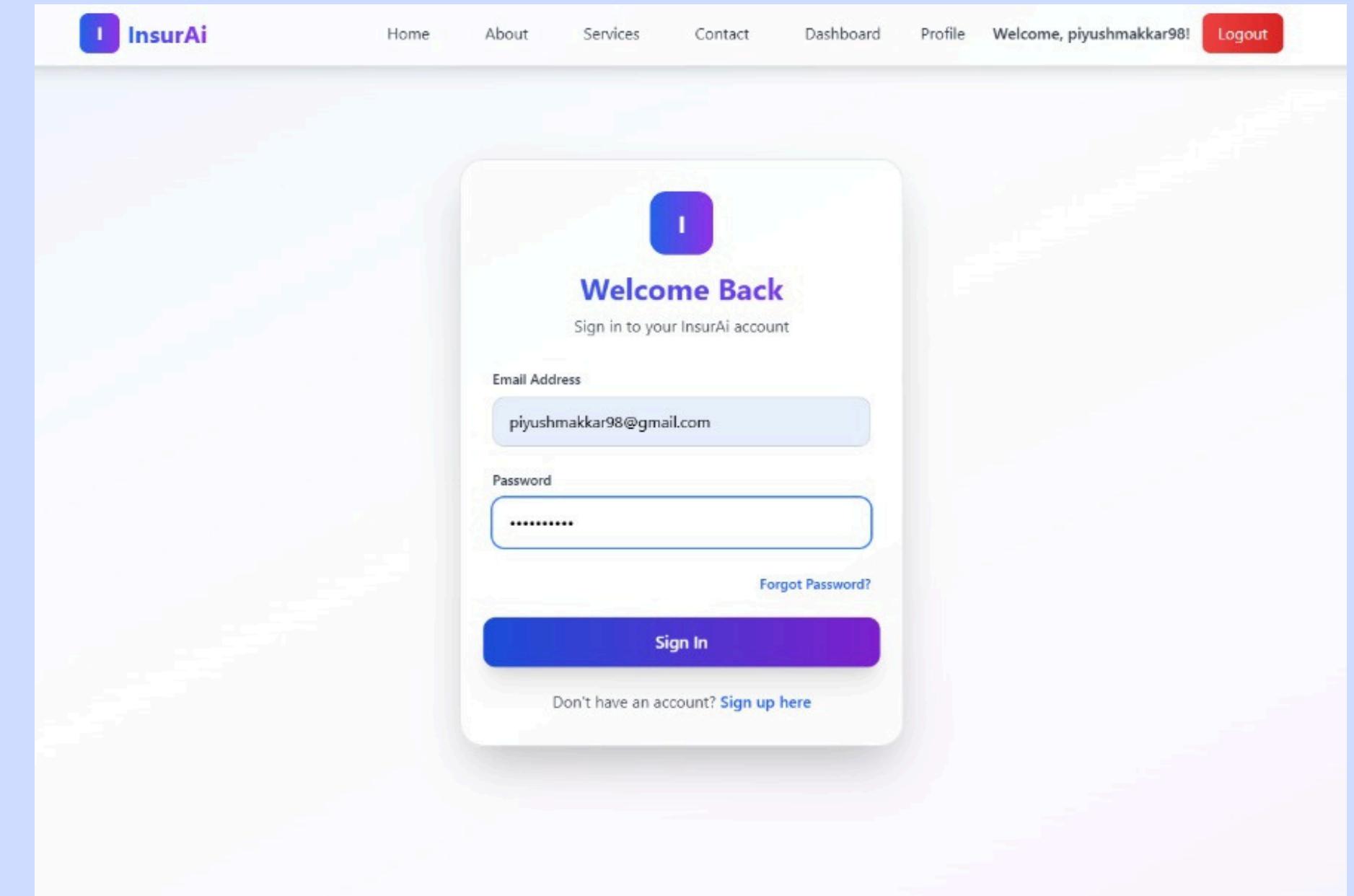
File and process claims in

**Mobile First**

Manage your insurance on-the-

## Description:

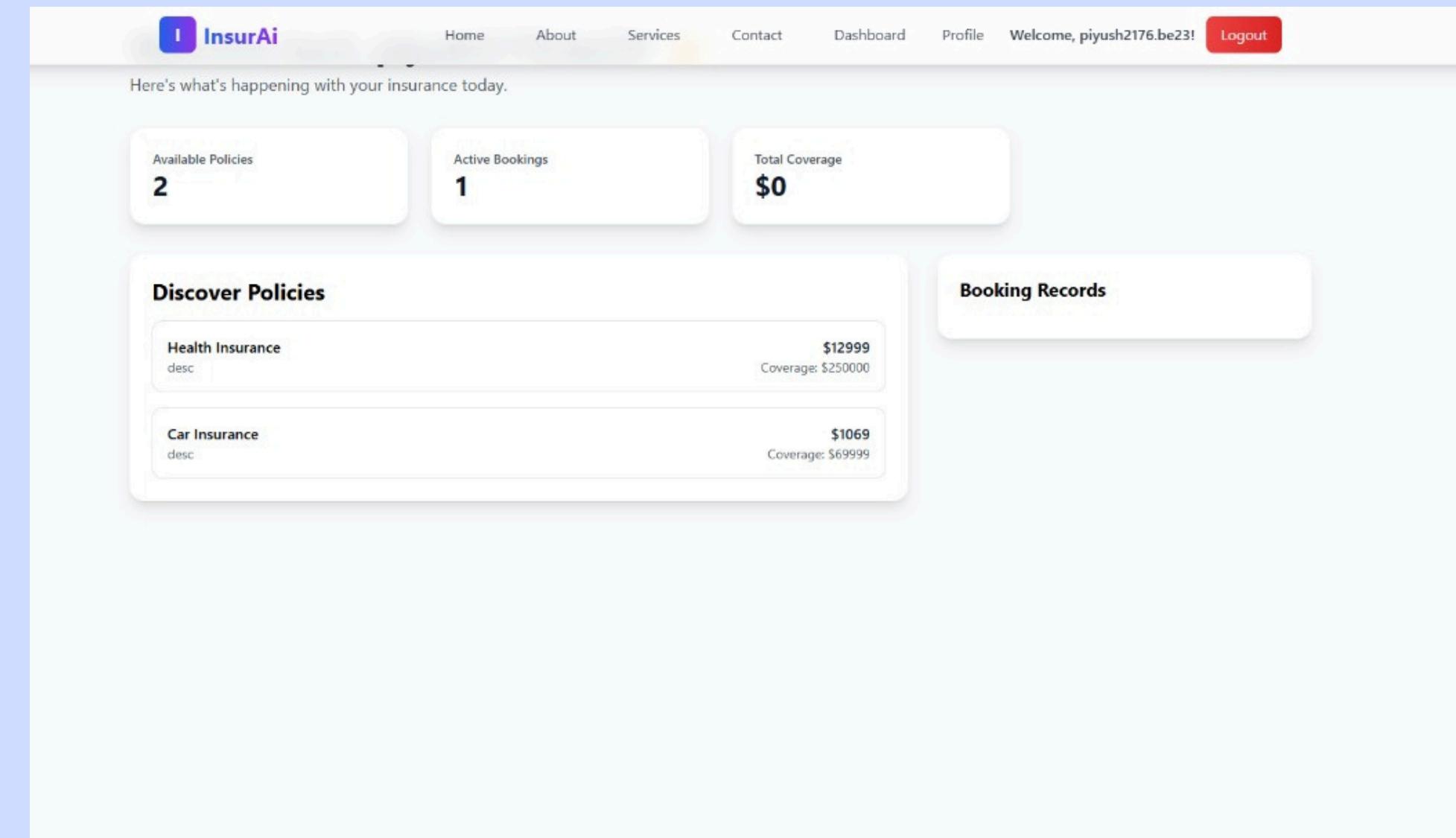
- Handles user login, registration, and secure access using JSON Web Tokens.
- Includes workflow and UI screenshots demonstrating implementation.



# 2. Appointment Scheduling Interface

## Description:

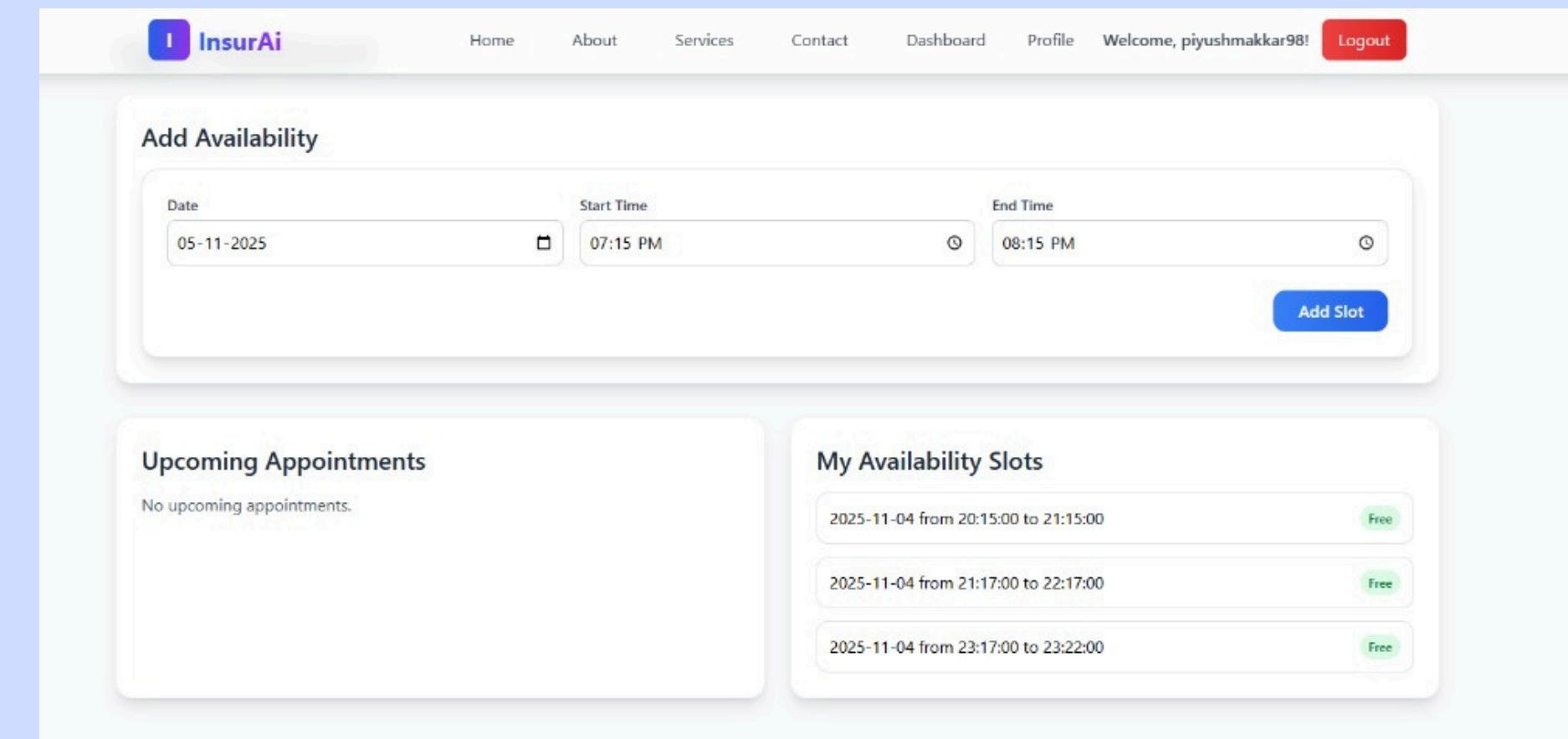
- Allows users to book, view, and manage appointments with agents.
- Includes workflow and UI screenshots demonstrating implementation.



# 3. Agent Management

## Description:

- Enables admins to track and manage agent details, availability, and performance.
- Includes workflow and UI screenshots demonstrating implementation.



**InsurAi**

Home About Services Contact Dashboard Profile Welcome, piyush2176.be23! Logout

Manage your account information and your policy details

**Piyush**  
piyush2176.be23@chitkara.edu.in  
Member since October 2022

Edit Profile

Full Name: Piyush Email: piyush2176.be23@chitkara.edu.in

Phone Number:  Date of Birth: dd-mm-yyyy

Address:

**Profile Stats**

Active Policies	1
Years with us	2
Savings	\$2,400

**Quick Actions**

- Change Password
- Download Policies
- Notification Settings
- Logout

**My Policies**

**Car Insurance**  
Provided By: Piyush  
Policy Ending On: 2026-11-04

ACTIVE Update Details

**Recent Activity**

Policy Renewal: Completed  
2024-10-01

Claim Filed: Processing

# 5. Notification & Admin Dashboard

Description:

- Displays key metrics, notifications, and activity reports for users and admins.
- Includes workflow and UI screenshots demonstrating implementation.

The screenshot shows the InsurAI Admin Dashboard. The top navigation bar includes links for Home, About, Services, Contact, Dashboard, Profile, and Logout. A welcome message "Welcome, piyushmakkar9800!" is displayed next to the Logout button. On the left, a sidebar menu lists "Users" (selected), "Policies", "User Policies", "Bookings", and "Notifications". The main content area displays a table of users with columns for ID, Name, Email, Role, and Actions (Delete). The data is as follows:

ID	Name	Email	Role	Actions
1	Piyush Makkar	piyushmakkar9800@gmail.com	ADMIN	Delete
2	Pyush	piyushmakkar98@gmail.com	AGENT	Delete
3	Piyush	piyush2176.be23@chitkara.edu.in	USER	Delete
14	chitkara	chitkarauniversitydontreply@gmail.com	AGENT	Delete

thank  
you

