



# 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:

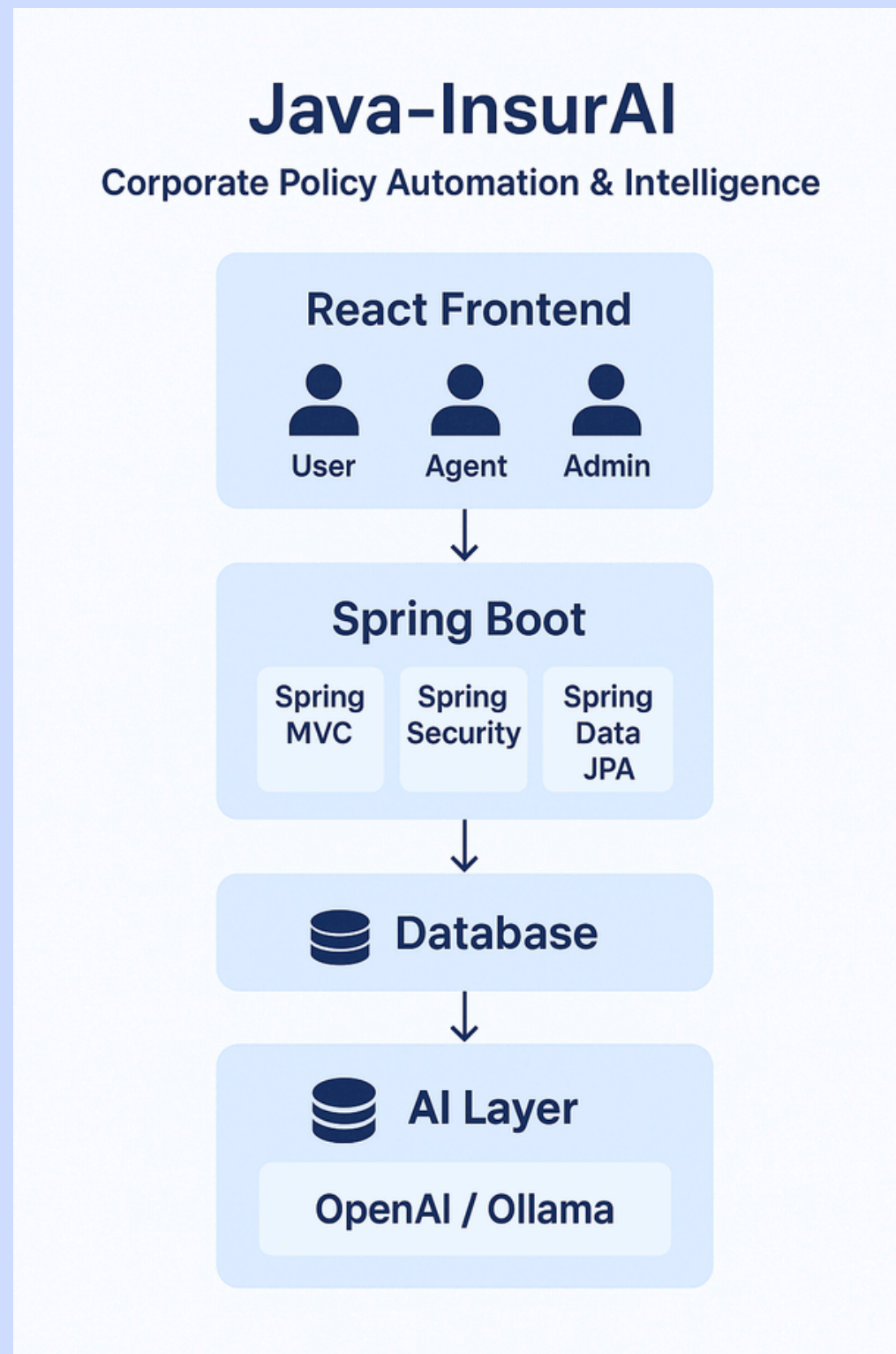
- Manual policy handling processes cause inefficiency and delays.
- Lack of proper communication channels between customers and agents.
- Absence of AI-based assistance results in slow query resolution.

# 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

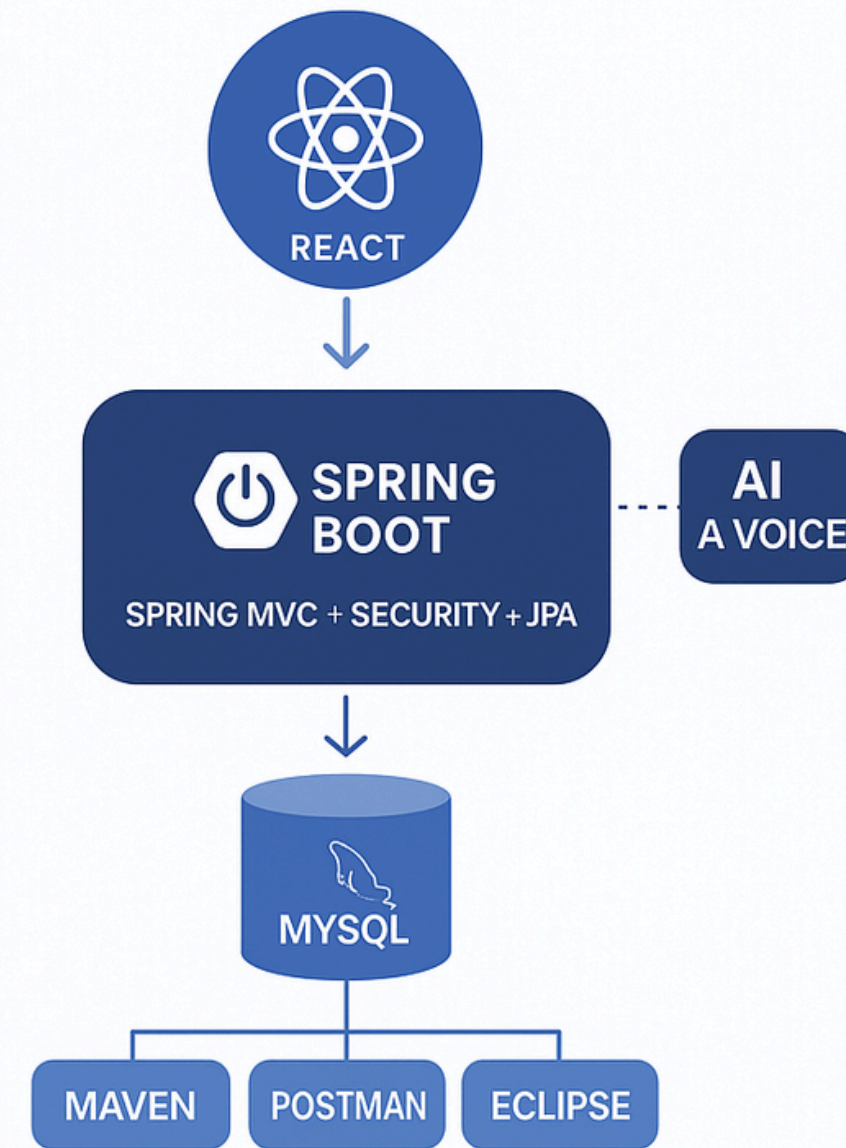




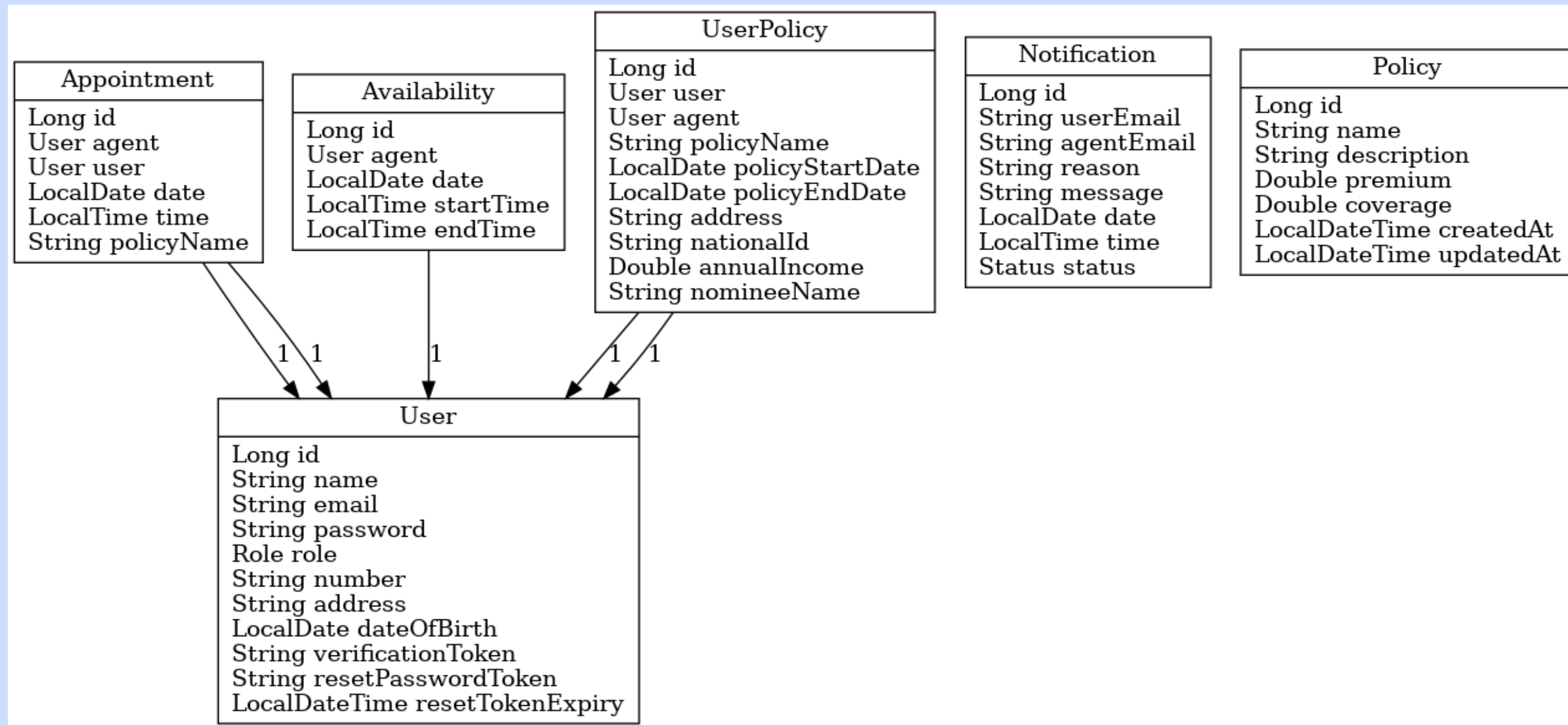
# Technology Stack

## 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

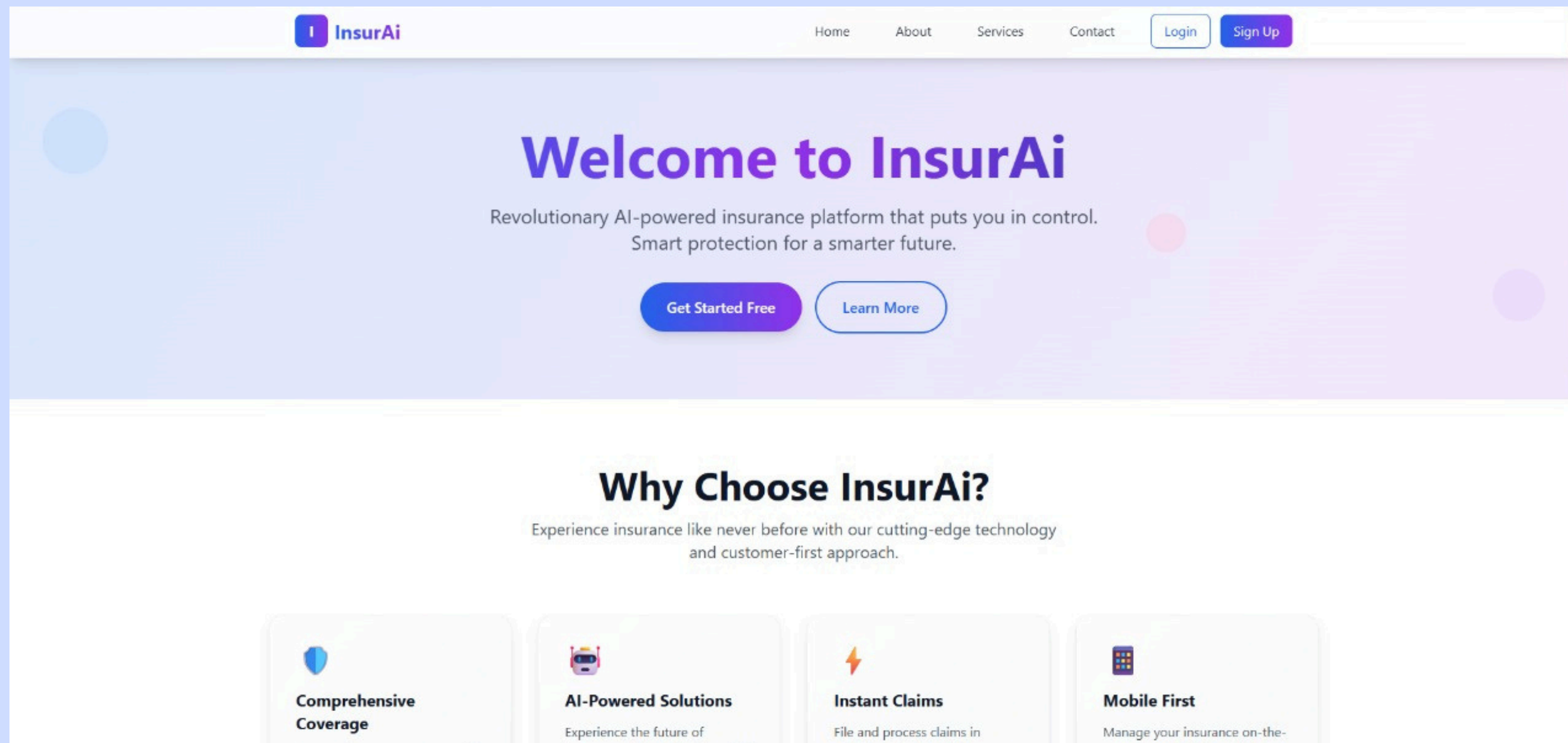
The Java-InsurAI Corporate Policy Application consists of the following key modules:

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



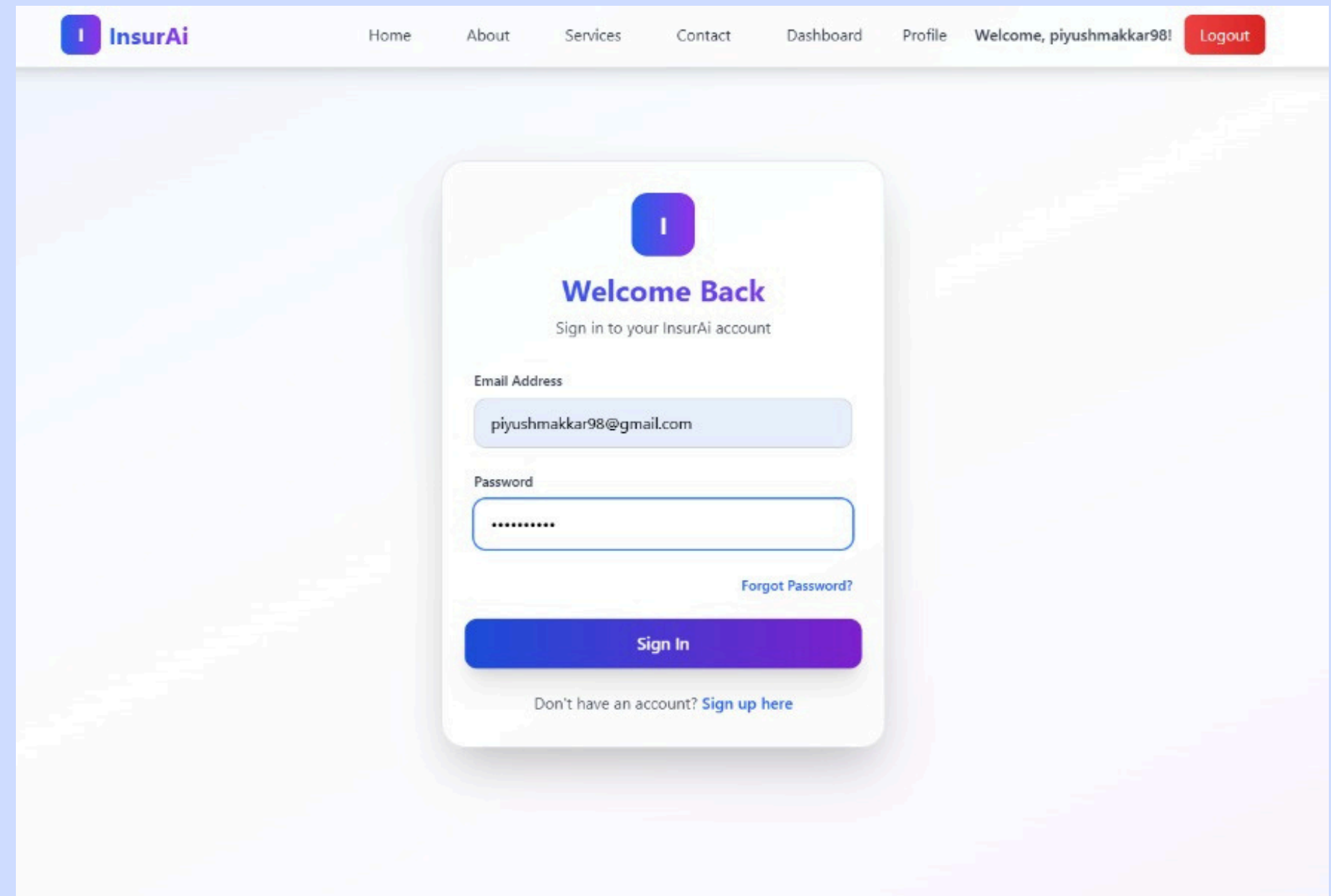
# Module Implementation

## 1. User Authentication & JWT



## Description:

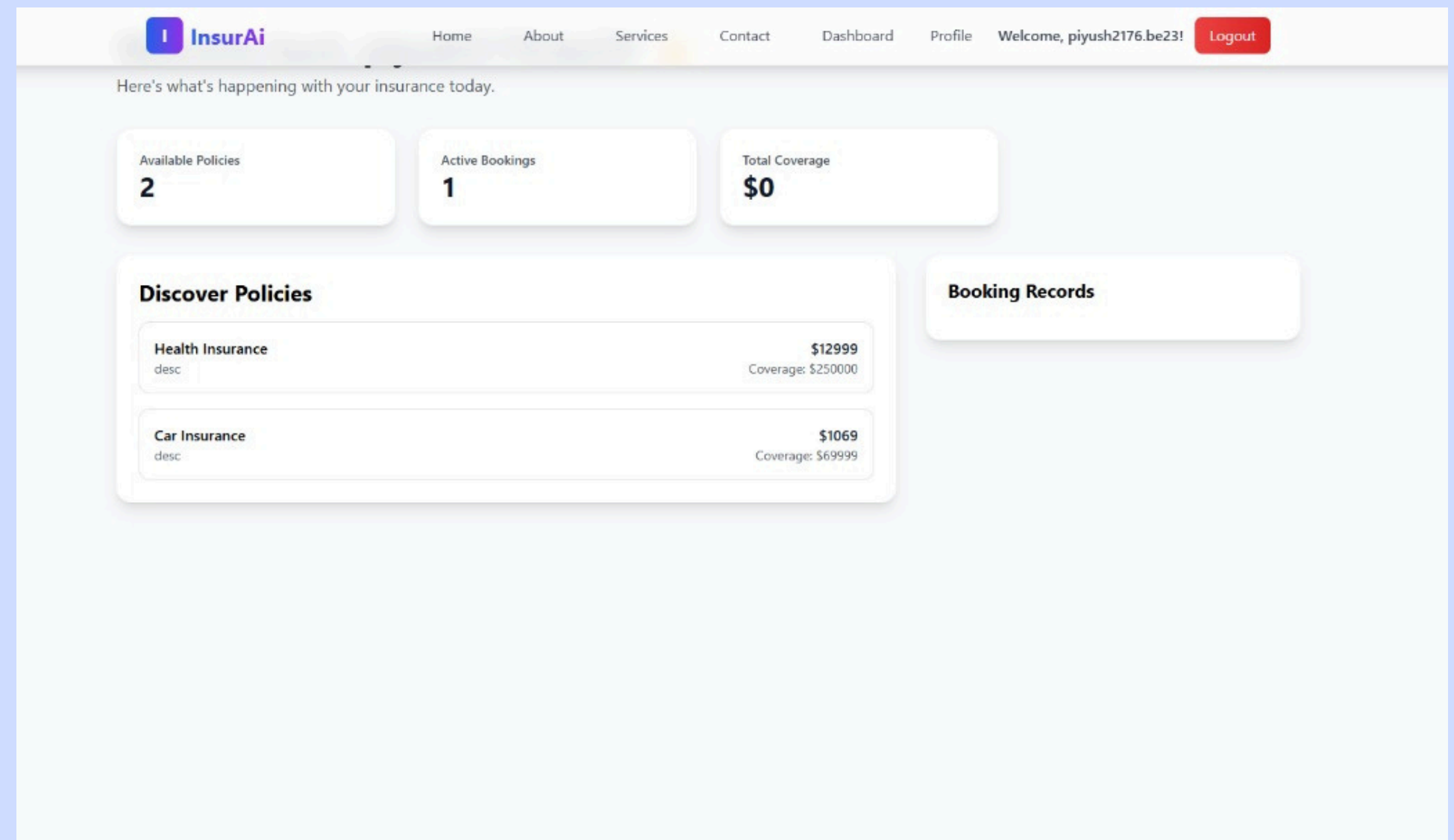
- Handles user login, registration, and secure access using JSON Web Tokens.
- Includes workflow and UI screenshots demonstrating implementation.



# 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

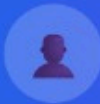
Description:

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

The screenshot displays the InsurAi Agent Management interface. At the top, a navigation bar includes the InsurAi logo and links for Home, About, Services, Contact, Dashboard, Profile, and a user greeting 'Welcome, piyushmakkar98!' with a Logout button. The main content area features a 'Add Availability' form with input fields for Date (05-11-2025), Start Time (07:15 PM), and End Time (08:15 PM), each with a calendar icon. An 'Add Slot' button is positioned to the right of the form. Below the form, there are two sections: 'Upcoming Appointments' which shows 'No upcoming appointments.', and 'My Availability Slots' which lists three slots for 2025-11-04, each marked as 'Free'.

Date	Start Time	End Time	Status
05-11-2025	07:15 PM	08:15 PM	
2025-11-04	20:15:00	21:15:00	Free
2025-11-04	21:17:00	22:17:00	Free
2025-11-04	23:17:00	23:22:00	Free

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

My Policies

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

ACTIVE

Update Details

Profile Stats

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

Quick Actions

- Change Password
- Download Policies
- Notification Settings
- Logout

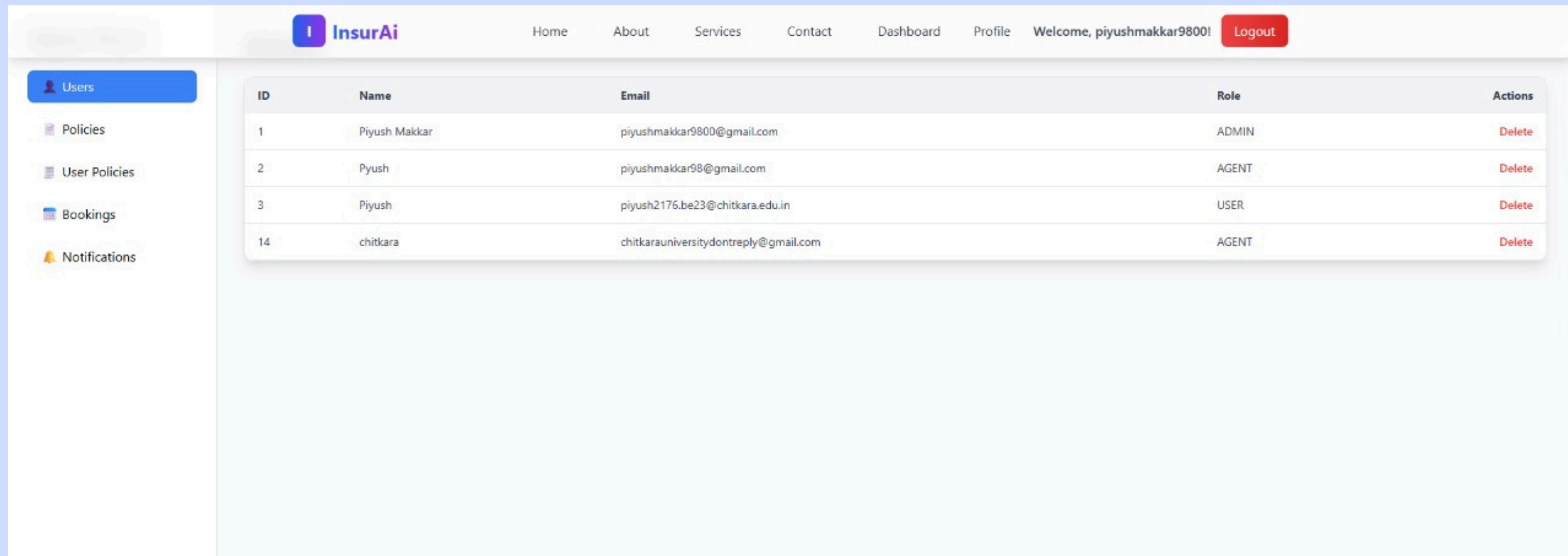
Recent Activity

Policy Renewal	Completed
2024-10-01	
Claim Filed	Processing

# 5. Notification & Admin Dashboard

Description:

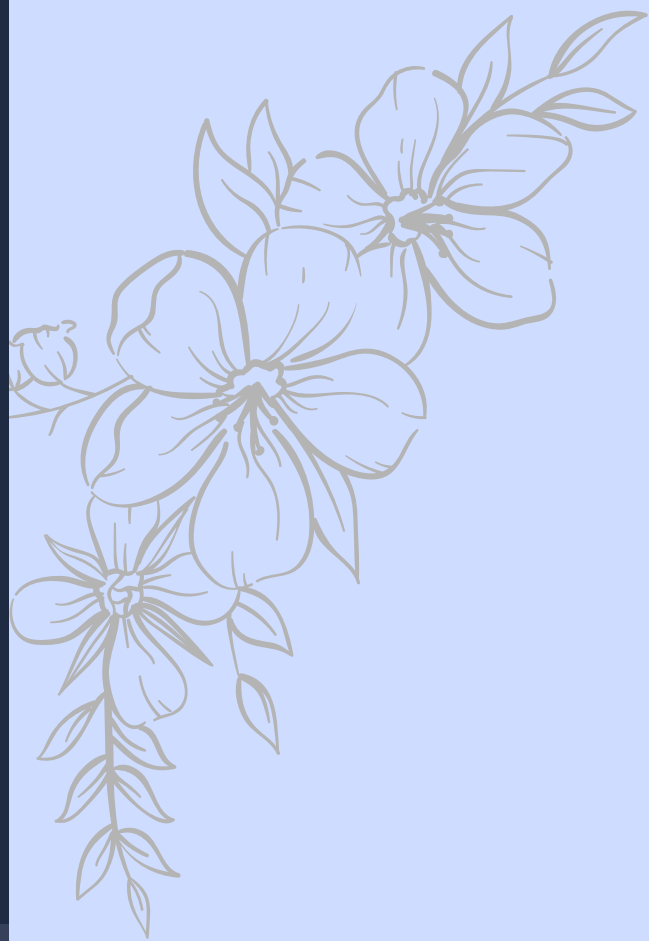
- Displays key metrics, notifications, and activity reports for users and admins.
- Includes workflow and UI screenshots demonstrating implementation.



The screenshot displays the 'InsurAi' Admin Dashboard. The top navigation bar includes links for Home, About, Services, Contact, Dashboard, Profile, and a welcome message for 'piyushmakkar9800!' with a Logout button. The left sidebar contains menu items: Users (selected), Policies, User Policies, Bookings, and Notifications. The main content area shows a table of users with columns for ID, Name, Email, Role, and Actions.

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

