

# InsurAI – Corporate Policy Automation and Intelligence System

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## Problem Statement

Managing corporate insurance policies is often complex, manual, and error-prone. Traditional systems require heavy human intervention for policy creation, claims settlement, compliance checks, and reporting. This leads to delays, inconsistencies, and higher operational costs.

**InsurAI aims to automate and streamline these processes using AI and modern web technologies, improving efficiency, accuracy, and customer satisfaction.**

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## 1. 🚀 Project Overview

**InsurAI (Insurance AI Automation & Verification System)** is a **web-based platform** designed to:

- Automate **corporate policy management**.
- Provide **AI-powered verification** and **expert validation**.
- Deliver a **modern, user-friendly interface** with **dark/light mode support**.

The platform allows:

- Users to **register, login, and access dashboards**.
  - Viewing and managing **policies**.
  - Verifying policies against **industry standards**.
  - Visualizing real-time updates and automation status.
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## 2. 🌀 Core Features (MVP Scope)

- **Authentication**
  - User registration & login.
  - Role-based access (User, Admin).
- **Dashboard**
  - Displays policy stats (active, pending, verified).
  - Personalized after login (⚠ No dummy stats for guests).
- **Policies Management**

- Create, edit, view, and delete corporate policies.
  - Integration with AI/ML verification (future enhancement).
  - **Verification System**
    - AI + Expert validation workflows.
    - Fraud detection (future).
  - **User Experience**
    - Responsive UI (mobile + desktop).
    - Light/Dark mode toggle.
    - Animations (Framer Motion).
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### 3. ✂ Tech Stack

#### Frontend

- **React.js** (SPA architecture).
- **React Router v6** (page navigation).
- **Tailwind CSS** (utility-first styling).
- **Framer Motion** (animations).

#### Backend

**Spring Boot + MySQL + Spring Security (JWT) + REST APIs**

#### Database

- **MySQL** (structured corporate policy data, widely used).

#### Future Integrations

- **AI models (NLP, ML)** for policy analysis.
  - **CI/CD pipelines** for scaling.
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### 4. ☺ UI/UX Design Guidelines

- **Theme**
  - Light: Soft Indigo + Blue gradients.
  - Dark: Gray + Indigo gradients.
  - Smooth transitions with transition-colors duration-500.
- **Typography**
  - font-extrabold for headers.
  - font-medium for navigation.
- **Animations**

- Page transitions: framer-motion.
  - Hover effects: Tailwind + Motion.
  - **Responsiveness**
    - Flexbox & Grid system.
    - Mobile-first design.
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## 5. Security & Auth (Planned)

- JWT-based authentication.
- Encrypted password storage (bcrypt).
- Role-based access control.
- Session management & logout.

## 6. Implemented Screens and Components

Based on the progress made in the frontend development using React.js, several key screens and components have been created to form the foundation of the InsurAI platform. These elements focus on providing a seamless user interface for navigation, theme management, and core functionalities related to policy management and verification. Below is a detailed overview of each implemented screen/component, including their purpose, key features, and how they contribute to the overall user experience. These are built as functional components using React hooks (e.g., useState, useEffect) for state management, with Tailwind CSS for styling and Framer Motion for animations.

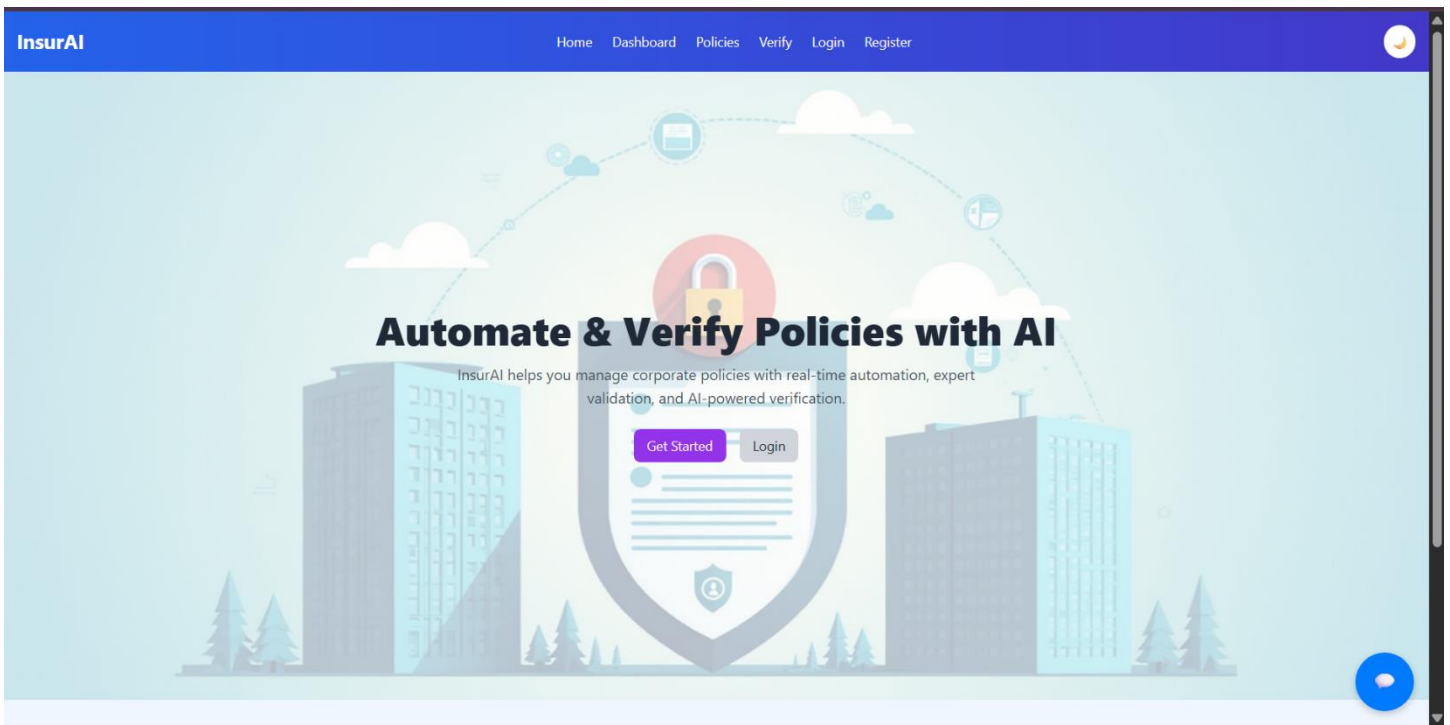
### 6.1 Home Screen

#### **Description:**

Landing page introducing InsurAI's purpose and guiding users to register or log in.

#### **Key Features:**

- Hero section with tagline and CTA buttons.
- Navigation links (Home, Dashboard, Policies, Verify).
- Light/Dark theme toggle with smooth transitions.
- Responsive, animated layout using Tailwind + Framer Motion



## 6.2 User Dashboard

### Description:

Main hub for users after login, showing policy stats and quick access to key modules.

### Key Features:

- Personalized greeting and summary cards.
- Policy and application overview table.
- Sidebar for quick navigation.
- Redirects to login if unauthenticated.

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## 6.3 Policies & Applications

### Description:

Manages corporate insurance policies and applications.

### Key Features:

- View, create, edit, and delete policies.
  - Search, filter, and sort options.
  - Role-based access (user/admin).
  - AI verification placeholder for future integration.
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## 6.4 Claims Page

### Description:

Allows users to file and track insurance claims easily.

### Key Features:

- Claim submission with details and document upload.
  - Status tracking: Submitted, Under Review, Approved, Rejected.
  - Responsive table for claim history.
  - Notifications for status updates (planned).
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## 6.5 Verify Page

### Description:

Verifies policy documents using AI and expert workflows.

### Key Features:

- Upload or select policy for verification.
  - Displays AI results and expert validation status.
  - Animated progress bar for workflow tracking.
  - Fraud detection planned for future.
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## 6.6 Admin Dashboard

### Description:

Admin-only view for managing users and policies.

### Key Features:

- Overview cards (Total Users, Total Policies).
  - Applications table with color-coded status.
  - Role-based sidebar navigation.
  - Dynamic data from backend APIs.
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## 6.7 Admin Profile

### Description:

Admin's personal details and credential management.

### Key Features:

- View and edit name, email, and password.
- Secure password encryption (bcrypt).

- Consistent UI with dashboard theme.
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## **6.8Chatbot**

### **Description:**

Interactive AI assistant for user help and navigation.

### **Key Features:**

- Floating chat icon on all pages.
- Basic Q&A with planned AI integration.
- Smooth slide-in animation.
- Future backend linkage for smart replies.