

# Claims Management System

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# Design Layout and Choices

## Colors

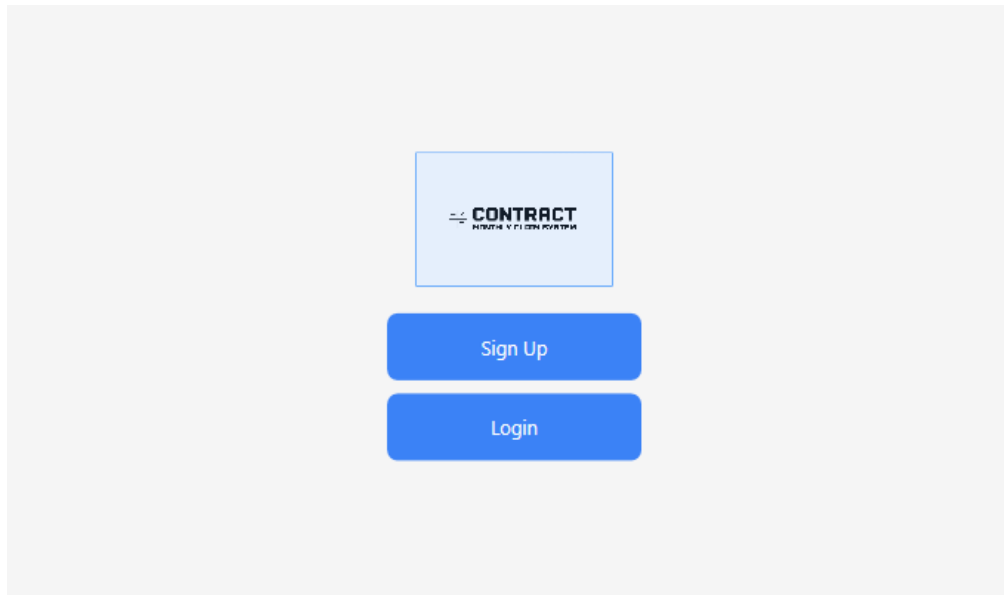
- **Primary Button Background:** #3B82F6 (Bright Blue)
- **Primary Button Foreground:** White
- **Sidebar Button Background:** #1E3A8A (Deep Blue)
- **Sidebar Button Hover Background:** #344953 (Dark Grayish Blue)
- **Sidebar Button Hover Border:** #4A5B6A (Light Grayish Blue)
- **Navbar Background:** #1A237E (Dark Blue)
- **Main Content Background:** #FFFFFF (White)
- **Main Content Foreground:** #111111 (Almost Black)
- **Page Background:** #f5f5f5 (Light Gray)

## Landing Page

**Purpose:** Serve as the entry point to the application, offering users options to sign up or log in.

### **Layout and Functionality:**

- **Background:** Neutral, clean background (#f5f5f5) to keep the focus on primary actions.
- **Buttons:**
  - **Sign Up:** Prominently styled with PrimaryButtonStyle to attract attention.
  - **Log In:** Styled consistently with the Sign Up button for a unified look and feel.

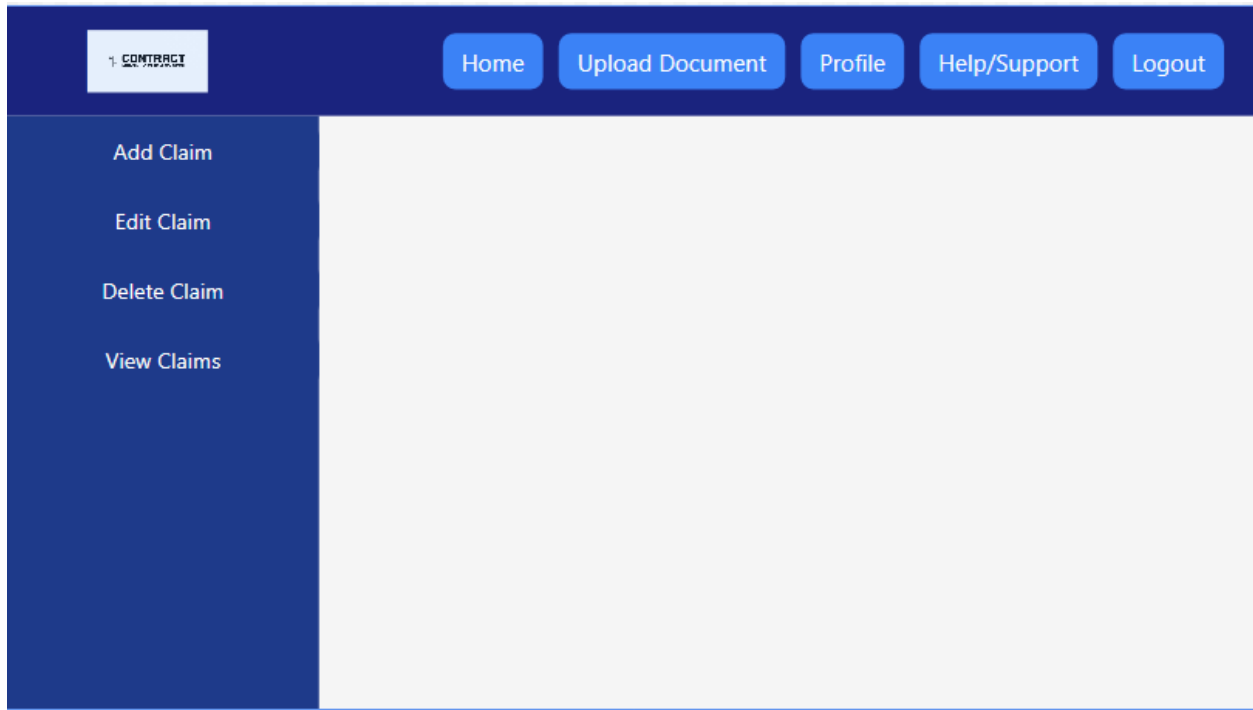


## Lecturer View

**Purpose:** Allow lecturers to manage claims, including adding, editing, and viewing claims.

### **Layout and Functionality:**

- **Top Navbar:** Includes global navigation actions such as "Home," "Profile," and "Help/Support."
- **Left Sidebar:** Provides quick access to claim management options like "Add Claim," "Edit Claim," and "View Claims."
- **Main Content Area:** Displays detailed information related to the selected action.

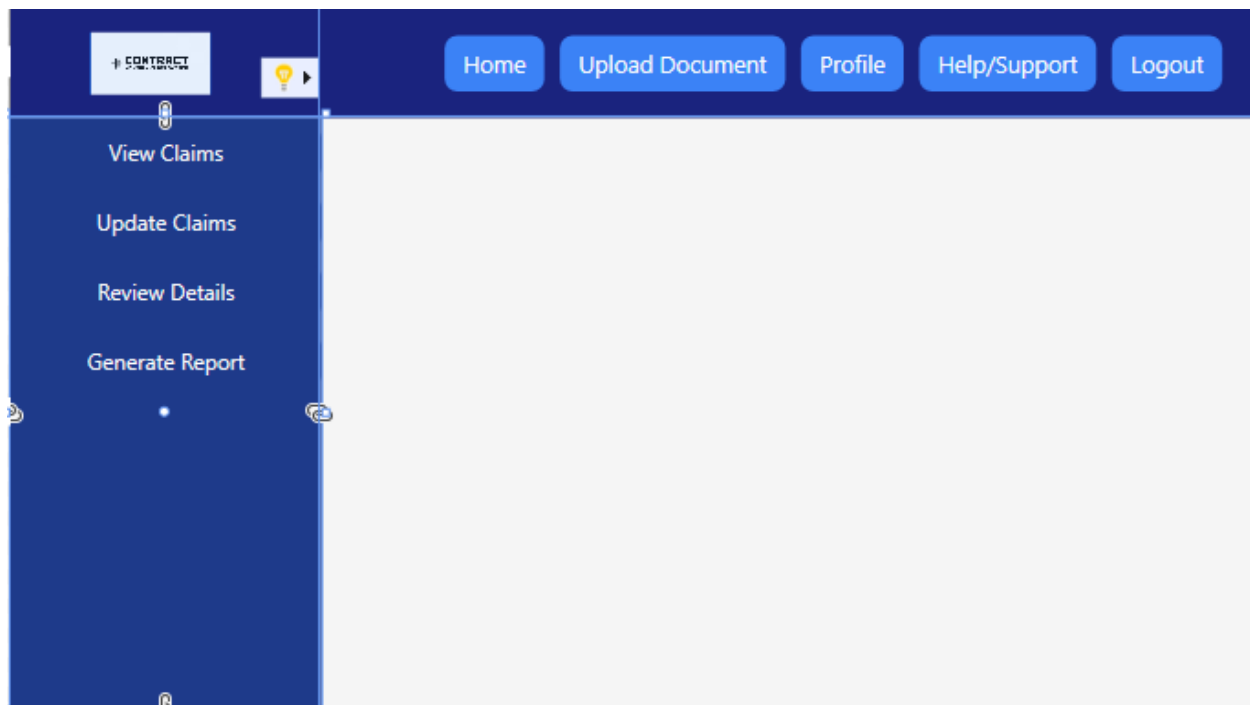


## Reviewer View

**Purpose:** Enable reviewers to view, update, and manage claims and generate reports.

### **Layout and Functionality:**

- **Top Navbar:** Mirrors the Lecturer View for consistency, offering "Home," "Profile," and "Help/Support."
- **Left Sidebar:** Focuses on review-related tasks such as "Update Claims," "View Claims," and "Generate Report."
- **Main Content Area:** Dedicated to displaying and interacting with claims and reports.



# Database Structure

## Purpose

The database is designed to efficiently manage and relate claims, users (lecturers and reviewers), and their interactions.

## Tables and Their Relationships

### **CommonClaimsModel**

**Purpose:** Holds basic information about claims that are common across different types of claims.

#### **Fields:**

- ClaimId (Primary Key): Unique identifier for each claim.
- ClaimTitle: Title of the claim.
- ClaimDescription: Detailed description of the claim.
- DateSubmitted: Date when the claim was submitted.

CommonClaims
+ ClaimId(PK): int
+ ClaimTitle: string
+ ClaimDescription: string
+ DateSubmitted: DateTime

### **LecturerModel**

**Purpose:** Stores information about lecturers who submit claims.

#### **Fields:**

- PK\_LecturerID (Primary Key): Unique identifier for each lecturer.
- LecturerName: Name of the lecturer.
- LecturerEmail: Email address of the lecturer.
- LecturerHourlyRate: Hourly rate of the lecturer.
- Modules: Array of modules taught by the lecturer.

### Relationships:

- **SubmittedClaimsModel:** References PK\_LecturerID to link claims submitted by lecturers.

Lecturer
+ PK_LecturerID (PK): int
+ LecturerName: string
+ LecturerEmail: string
+ LecturerHourlyRate: Float
+ Modules: String[]

### ReviewerModel

**Purpose:** Contains details about reviewers who assess claims.

### Fields:

- PK\_ReviewerID (Primary Key): Unique identifier for each reviewer.
- ReviewerName: Name of the reviewer.
- ReviewerRole: Role or designation of the reviewer.
- ReviewerEmail: Email address of the reviewer.

### Relationships:

- **ReviewedClaimsModel:** References PK\_ReviewerID to link claims reviewed by the reviewer.

Reviewer
+ PK_ReviewerID (PK): int
+ ReviewerName: string
+ ReviewerEmail: string
+ ReviewerRole: string



## SubmittedClaimsModel

**Purpose:** Extends CommonClaimsModel to include information specific to claims submitted by lecturers.

### Fields:

- FK\_LecturerId (Foreign Key): Links to LecturerModel to identify the lecturer who submitted the claim.
- FK\_ClaimId (Foreign Key): Links to CommonClaimsModel to reference the claim.

### Relationships:

- **LecturerModel:** Connected through FK\_LecturerId.
- **CommonClaimsModel:** Connected through FK\_ClaimId.

SubmittedClaims
+ FK_ClaimID (FK): int
+ FK_LecturerID (FK): int

## ReviewedClaimsModel

**Purpose:** Extends CommonClaimsModel to include review-specific information about claims.

### Fields:

- FK\_ClaimID (Foreign Key): Links to CommonClaimsModel to reference the claim.
- ClaimStatus: Enum indicating the status of the claim.
- IsValid: Boolean indicating if the claim is valid.
- ReviewerId (Foreign Key): Links to ReviewerModel to identify the reviewer who assessed the claim.

### Relationships:

- **CommonClaimsModel:** Connected through FK\_ClaimID.
- **ReviewerModel:** Connected through ReviewerId.

ReviewedClaims
+ FK_ClaimID (FK): int
+ ClaimStatus: enum
+ IsValid: bool
+ FK_ReviewerId (FK): bool