

About

CourtTrack – Legal Case & Document Management with AI Summaries

Built a full-stack legal case management system (React, Express, MySQL) with complex DBMS features (triggers, stored procedures, transactions, views).

Integrated AI-powered NLP to automatically generate summaries & keywords for uploaded legal documents, enabling fast search and retrieval.

Designed lawyer and client dashboards with searchable case histories, document management, and upcoming hearing schedules.

to remember

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CREATE TABLE cases ( |  
| id int NOT NULL AUTO_INCREMENT, |  
| title varchar(255) NOT NULL, |  
| description text, |  
| filed_date timestamp NULL DEFAULT CURRENT_TIMESTAMP, |  
| lawyer_id int DEFAULT NULL, |  
| client_id int DEFAULT NULL, |  
| status enum('pending','approved','rejected') DEFAULT 'pending', |  
| PRIMARY KEY (id), |  
| KEY lawyer_id (lawyer_id), |  
| KEY client_id (client_id), |  
| CONSTRAINT cases_ibfk_1 FOREIGN KEY (lawyer_id) REFERENCES users (user_id |  
| ), |  
| CONSTRAINT cases_ibfk_2 FOREIGN KEY (client_id) REFERENCES users (user_id |  
| ) |  
| ) ENGINE=InnoDB AUTO_INCREMENT=9 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |  
| CREATE TABLE clients ( |  
| client_id int NOT NULL AUTO_INCREMENT, |  
| user_id int DEFAULT NULL, |  
| address varchar(255) DEFAULT NULL, |  
| PRIMARY KEY (client_id), |  
| KEY user_id (user_id), |  
| CONSTRAINT clients_ibfk_1 FOREIGN KEY (user_id) REFERENCES users (user_id |  
| ) |  
| ) ENGINE=InnoDB AUTO_INCREMENT=3 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |  
| CREATE TABLE judges ( |  
| id int NOT NULL AUTO_INCREMENT, |  
| name varchar(255) NOT NULL, |  
| court varchar(255) NOT NULL, |
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| experience int DEFAULT NULL, |
| appointed_date timestamp NULL DEFAULT CURRENT_TIMESTAMP, |
| PRIMARY KEY (id) |
| ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
| CREATE TABLE lawyers ( |
| lawyer_id int NOT NULL AUTO_INCREMENT, |
| user_id int DEFAULT NULL, |
| specialization varchar(100) DEFAULT NULL, |
| PRIMARY KEY (lawyer_id), |
| KEY user_id (user_id), |
| CONSTRAINT lawyers_ibfk_1 FOREIGN KEY (user_id) REFERENCES users (user_id |
| ) |
| ) ENGINE=InnoDB AUTO_INCREMENT=3 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
| CREATE TABLE notifications ( |
| id int NOT NULL AUTO_INCREMENT, |
| user_id int NOT NULL, |
| message text NOT NULL, |
| is_read tinyint(1) DEFAULT '0', |
| created_at timestamp NULL DEFAULT CURRENT_TIMESTAMP, |
| PRIMARY KEY (id), |
| KEY user_id (user_id), |
| CONSTRAINT notifications_ibfk_1 FOREIGN KEY (user_id) REFERENCES users (us | | er_id) |
| ) ENGINE=InnoDB AUTO_INCREMENT=14 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_c |
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| CREATE TABLE users ( |
| user_id int NOT NULL AUTO_INCREMENT, |
| name varchar(100) DEFAULT NULL, |
| email varchar(100) DEFAULT NULL, |
| password_hash varchar(255) DEFAULT NULL, |
| role enum('lawyer','client') NOT NULL, |
| created_at timestamp NULL DEFAULT CURRENT_TIMESTAMP, |
| PRIMARY KEY (user_id), |
| UNIQUE KEY email (email) |
| ) ENGINE=InnoDB AUTO_INCREMENT=22 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_c |
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