

Grievance Web Application Documentation

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1. Project Overview

The Grievance Web Application is a platform that empowers individuals to voice their concerns and grievances directly to the appropriate authorities. The platform ensures that every issue is heard and addressed promptly, fostering a transparent and responsive environment where users can submit, track, and resolve grievances with ease.

2. Technologies Used

- **Frontend:**
 - React.js: For building the user interface.
 - React Router: For handling navigation within the app.
 - Axios: For making HTTP requests to the backend.
 - React Icons: For incorporating icons into the interface.
 - CSS: For styling the application.
- **Backend:**
 - Node.js: For running the backend server.
 - Express.js: For building RESTful APIs.
 - MongoDB: For storing user and grievance data.
 - Mongoose: For modeling the application data.
 - JSON Web Tokens (JWT): For user authentication.
- **Tools:**
 - Visual Studio Code: For code editing.
 - Git: For version control.
 - Postman: For API testing.

3. Pages and Features

3.1 Home Page

- **Description:** The home page provides an introduction to the platform, highlighting its purpose and how it empowers users to voice their concerns.
- **Features:**
 - Navigation links to other parts of the site (Login, Register, Submit Grievance, Admin Dashboard).
 - A search bar for quick access to external articles related to grievances.

3.2 Login Page

- **Description:** The login page allows existing users to access their accounts by entering their email and password.
- **Features:**
 - Login form with email and password fields.
 - Options to login via Google or Facebook.
 - Links to the registration page for new users.

3.3 Register Page

- **Description:** The registration page enables new users to create an account by providing their name, email, and password.
- **Features:**
 - Registration form with fields for name, email, password, and password confirmation.
 - Options to sign up via Google or Facebook.

3.4 Submit Grievance Page

- **Description:** This page allows authenticated users to submit their grievances, providing details like type, title, description, and an option to upload supporting documents.
- **Features:**
 - Form to input grievance details.
 - File upload functionality.

3.5 Admin Dashboard

- **Description:** The admin dashboard provides an overview of all grievances submitted by users. Admins can view, track, and update the status of each grievance.
- **Features:**
 - Table listing all grievances with columns for email, type, title, description, status, and action.
 - Buttons to mark grievances as resolved.

3.6 Profile Page

- **Description:** The profile page displays a list of grievances submitted by the logged-in user, along with their current status.
- **Features:**
 - List of user's grievances.
 - Status of each grievance.

3.7 Navbar with Search Functionality

- **Description:** The navigation bar appears at the top of every page, providing easy access to the home page, grievance submission page, admin dashboard, and search functionality.
- **Features:**

- Links to key pages: Home, Submit Grievance, Admin Dashboard, Profile.
- Search bar for searching related articles on Google Scholar.
- Logout option for authenticated users.

4. Setting Up and Running the Project

4.1 Prerequisites

- Node.js installed on your system.
- MongoDB installed and running on your local machine or access to a MongoDB cloud instance.
- Git for version control.
- A code editor like Visual Studio Code.

4.2 Cloning the Repository

git clone <https://github.com/meenakshi-m/grievance-web.git>

4.3 Setting Up the Backend

1. Navigate to the backend directory: `cd backend`
2. Install the dependencies: `npm install`
3. Create a `.env` file in the root of the backend directory with the following contents:
`MONGO_URI=your_mongodb_uri JWT_SECRET=your_jwt_secret`
4. Start the backend server: `node app.js`

4.4 Setting Up the Frontend

1. Navigate to the frontend directory: `cd frontend`
2. Install the dependencies : `npm install`
3. Start the frontend development server: `npm start`

4.5 Accessing the Application

- Open your web browser and go to `http://localhost:3000` to view the application.

Future Enhancements

- Implementing role-based access control for different user types.
- Adding email notifications for grievance status updates.
- Integrating third-party authentication (Google, Facebook).

- Adding a reporting feature for grievance analytics.

Grievance Web Application Documentation

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1. Project Overview

The Grievance Web Application is a powerful platform designed to enable users to submit, track, and resolve grievances seamlessly. This system ensures transparency and prompt action on issues reported by users, fostering a responsive environment where concerns are handled efficiently by the appropriate authorities.

2. Technologies Used

Frontend:

- **React.js:** For building dynamic and interactive user interfaces.
- **React Router:** Manages navigation within the application, ensuring smooth user experience.
- **Axios:** Simplifies HTTP requests and handles communication between the frontend and backend.
- **React Icons:** Adds visually appealing icons to enhance user interaction.
- **CSS:** Custom styling to ensure a clean, user-friendly interface.

Backend:

- **Node.js:** Provides a robust runtime environment for server-side scripting.
- **Express.js:** Facilitates the creation of RESTful APIs and handling of HTTP requests.
- **MongoDB:** A NoSQL database for storing user data and grievances efficiently.
- **Mongoose:** An ODM library for MongoDB, simplifying data modeling.
- **JSON Web Tokens (JWT):** Secures user authentication and session management.

Tools:

- **Visual Studio Code:** An efficient code editor with powerful extensions.
 - **Git:** Version control system to manage codebase and track changes.
 - **Postman:** Used for testing API endpoints and ensuring the backend functions correctly.
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3. Pages and Features

3.1 Home Page

- **Description:** The landing page introduces users to the platform, highlighting its key features and benefits.
- **Features:**
 - Navigation links for easy access to other sections (Login, Register, Submit Grievance, Admin Dashboard).
 - A search bar enabling quick access to external articles related to grievances.

3.2 Login Page

- **Description:** This page allows existing users to log in using their credentials.
- **Features:**
 - Secure login form with email and password fields.
 - Options for social login via Google or Facebook.
 - Link to the registration page for new users.

3.3 Register Page

- **Description:** Enables new users to sign up by providing necessary details such as name, email, and password.
- **Features:**
 - A user-friendly registration form with input validation.
 - Options to sign up via Google or Facebook.

3.4 Submit Grievance Page

- **Description:** Authenticated users can submit grievances, specifying details like type, title, description, and attaching supporting documents.
- **Features:**
 - A comprehensive form for submitting grievances.
 - File upload functionality to attach relevant documents.

3.5 Admin Dashboard

- **Description:** Provides administrators with a comprehensive view of all grievances, allowing them to manage and resolve issues.

- **Features:**
 - A dynamic table listing all grievances, with options to mark them as resolved.
 - Real-time updates to the status of grievances.

3.6 Profile Page

- **Description:** Displays the grievances submitted by the logged-in user, along with their current status.
- **Features:**
 - A detailed list of the user's grievances.
 - Status indicators showing the progress of each grievance.

3.7 Navbar with Search Functionality

- **Description:** The navbar provides quick navigation to all key sections of the site, including a search feature to find relevant external articles.
 - **Features:**
 - Links to key pages: Home, Submit Grievance, Admin Dashboard, Profile.
 - Search bar for querying Google Scholar articles related to grievances.
 - Logout option for users to securely exit the platform.
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4. Setting Up and Running the Project

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4.3 Setting Up the Backend

5. Navigate to the backend directory: `cd backend`
6. Install the dependencies: `npm install`
7. Create a `.env` file in the root of the backend directory with the following contents:
MONGO_URI=your_mongodb_uri JWT_SECRET=your_jwt_secret

8. Start the backend server: `npm install`

4.4 Setting Up the Frontend

4. Navigate to the frontend directory: `cd frontend`
5. Install the dependencies : `npm install`
6. Start the frontend development server: `npm start`

Running the Application

Start the backend server:

- `cd backend`
- `npm start`

Start the frontend development server:

- `cd frontend`
- `npm start`

4.5 Accessing the Application

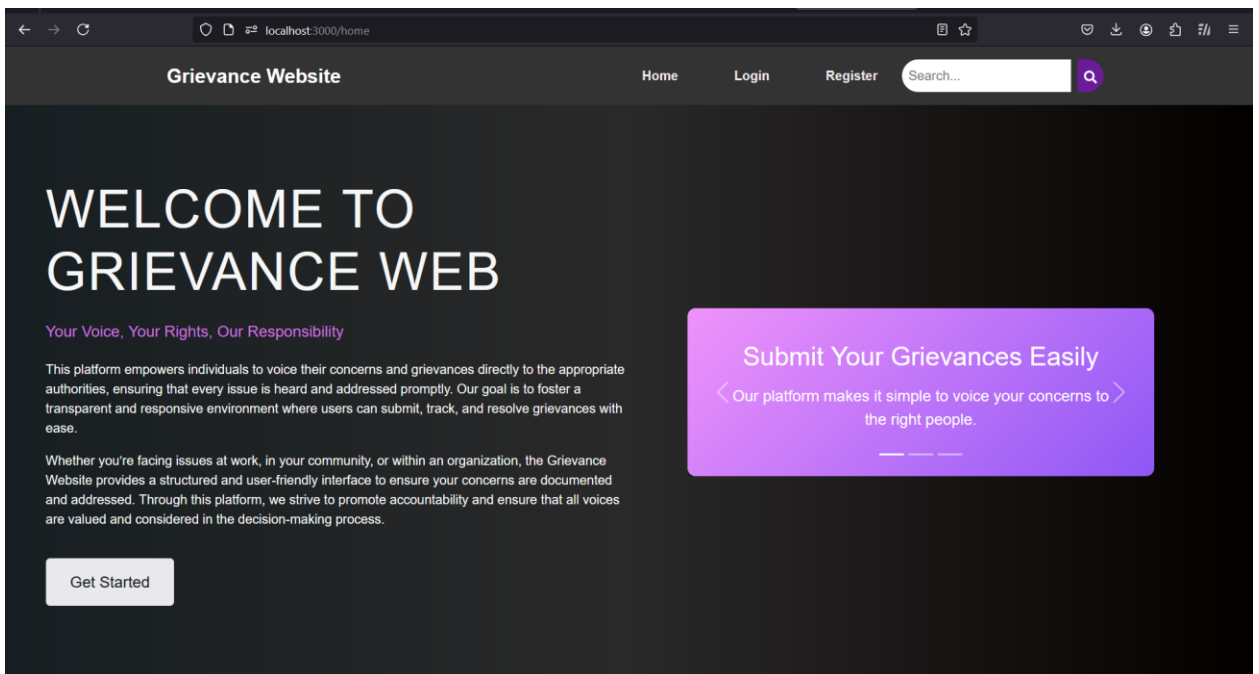
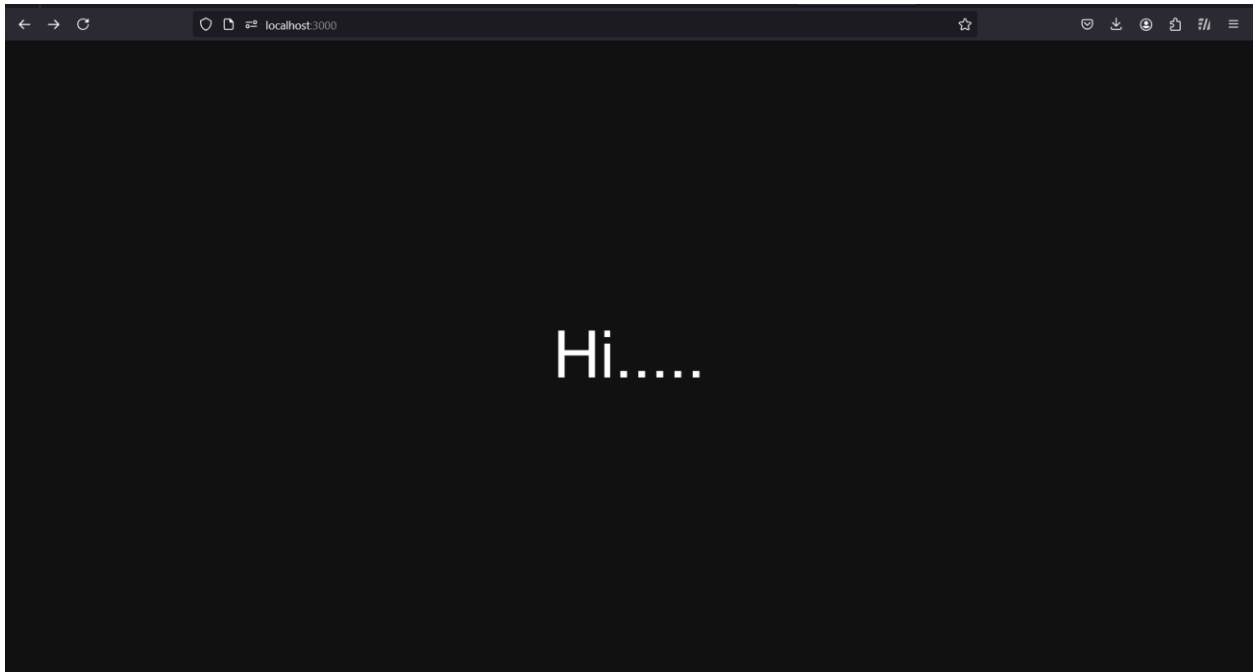
- Open your web browser and go to `http://localhost:3000` to start using the application.

5. Future Enhancements

- **Role-based Access Control:** Implement distinct roles and permissions for different types of users.
- **Email Notifications:** Automatically notify users about the status of their grievances via email.
- **Third-Party Authentication:** Integrate with popular authentication providers like Google and Facebook.
- **Analytics and Reporting:** Provide detailed reports and analytics on grievances for better decision-making.

6. Screenshots of the Application

- **Home Page:**



- **Login Page:**

The screenshot shows the Login page of a web application titled "Grievance Website". The page has a dark theme. At the top, there is a navigation bar with links for "Home", "Login", and "Register", along with a search bar. The main content area features a central login form. The form has a title "Login" in red. Below the title, there is a link "Don't have an account yet? [Sign Up](#)". The form contains two input fields: "Email Address" with the value "devika@gmail.com" and "Password" with masked characters "*****". There is a checkbox labeled "Remember me" and a link "Forgot Password?". Below the inputs is a red "LOGIN" button. At the bottom, there is a link "or login with" followed by two buttons for "Google" and "Facebook".

- **Registration Page:**

The screenshot shows the Register page of the same web application. The page has a dark theme. At the top, there is a navigation bar with links for "Home", "Login", and "Register", along with a search bar. The main content area features a central registration form. The form has a title "Register" in red. Below the title, there is a link "Already have an account? [Sign In](#)". The form contains four input fields: "Name" with the placeholder "Your Name", "Email Address" with the value "you@example.com", "Password" with the placeholder "Enter 6 characters or more", and "Confirm Password" with the placeholder "Confirm your password". Below the inputs is a red "CREATE ACCOUNT" button. At the bottom, there is a link "or sign up with" followed by two buttons for "Google" and "Facebook".

- **Submit Grievance Page:**

The screenshot shows a web browser at localhost:3000/grievance. The page has a dark theme with a navigation bar at the top containing 'Grievance Website', 'Home', 'Submit Grievance', 'Admin Dashboard', a search bar, and a user profile icon. The main content area features a 'Submit Grievance' form with the following fields: Email (devika@gmail.com), Type (Grievance type), Title (Title), Description (Description), and an Upload Supporting Document section with a 'Browse...' button and 'No file selected.' text. A purple 'Submit Grievance' button is at the bottom of the form.

- **Profile Page:**

The screenshot shows a web browser at localhost:3000/profile. The page has a dark theme with a navigation bar at the top containing 'Grievance Website', 'Home', 'Submit Grievance', 'Admin Dashboard', a search bar, and a user profile icon. The main content area features a 'Profile' section with the email 'devika@gmail.com' and a 'Your Grievances:' section. Below this, a grievance is listed with the title 'work issue related to time', the description 'I am not getting enough time for myself and i feel depreded', and the status 'Status: Resolved'.

- Admin Dashboard:

Admin Dashboard

Logout

Email	Type	Title	Description	Status	Date Submitted	Action
		inadequate training or support	"Inadequate training or support hindering employee performance and job satisfaction."	Resolved	8/9/2024, 10:48:36 PM	
meenu@gmail.com	wb	work-life balance	the prkfkktgt kyy	Resolved	8/12/2024, 6:29:17 PM	
meenu@gmail.com	wb	work-life balance	the process kgygo	Resolved	8/12/2024, 6:32:55 PM	
meenu@gmail.com	wb	work-life balance	the proces bkyfkufy	Resolved	8/12/2024, 6:33:46 PM	
kon@gmail.com	depression	dp	the dep is oyo;lj klyui	Resolved	8/12/2024, 6:48:47 PM	
meenu@gmail.com	Bullying	Workplace harassment	I was bullied at office as i was made do all the chores for people as i was a intern	Resolved	8/12/2024, 7:27:39 PM	
lala@gmail.com	Pay and benefits	disputes over earnings	Compensation and benefits: These grievances involve disputes over earnings, salary adjustments, overtime pay, bonuses, and other compensation	Resolved	8/12/2024, 7:29:45 PM	

- logout:

Grievance Website

Home

Submit Grievance

Admin Dashboard

Search...

Profile

Logout

Submit Grievance

Email

devika@gmail.com

Type

Grievance type

Title

Title

Description

Description

Upload Supporting Document

Browse... No file selected.

Submit Grievance