

Task Management App

Repo Link : [clcik](#)

Installation Guide

Prerequisites

- Ensure Node.js and npm are installed on your system.

Backend Installation

- Run **npm i** in the root directory to install backend dependencies.

Frontend Installation

- Navigate to the frontend directory using- **cd frontend**.
- Run **npm i** to install frontend dependencies.

Running the Project

Backend

- Start the backend server with **npm run dev**.

Frontend

- Open split terminal
- Navigate to the frontend directory using **cd frontend**.
- Start the frontend server with **npm start**.

Environment Variables

- Create a config.env file in the backend/config directory and include the following variables:
 - PORT: Port number for the server.
 - DB_URI: Database URI.
 - JWT_SECRET: Secret key for JWT authentication.
 - JWT_EXPIRE: Expiry time for JWT tokens.
 - COOKIE_EXPIRE: Expiry time for cookies.
 - SMPT_SERVICE: SMTP service for email functionality.
 - SMPT_MAIL: Email for SMTP.
 - SMPT_PASSWORD: Password for SMTP.
 - SMPT_HOST: Host for SMTP.
 - SMPT_PORT: Port for SMTP.
 - CLOUDINARY_NAME: Cloudinary account name.
 - CLOUDINARY_API_KEY: Cloudinary API key.
 - CLOUDINARY_API_SECRET: Cloudinary API secret.

Ensure each field in config.env is filled with the respective information.

Access the Api and Frontend Routes working

To grant admin privileges to a user manually after signup, you can follow these steps:

Signup a User:

- Allow users to register through your app, capturing basic information.
- Store user details in the database, including a unique identifier.

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Manually Update Role for Admin Access:

- As an admin or through a privileged backend endpoint:
 - Modify the user's role field in the database or user profile.
 - Assign the user an "admin" role manually to grant access to admin routes.
 - This can be done through a backend API endpoint specifically designed for role updates.

Admin Routes Access:

- Create backend routes that are restricted to users with an "admin" role:
 - Implement middleware to check if the user has an "admin" role before accessing these routes.
 - Example: Routes for creating teams, updating teams, assigning tasks, etc., should be accessible only to users with the "admin" role.

Frontend Integration:

- Design frontend components/pages specifically for admin functionalities.
- Implement authorization checks in the frontend to restrict access to admin-only features.
- Show/hide certain UI elements or routes based on the user's role retrieved from the backend.

API Endpoints:

- Ensure the backend API endpoints are appropriately secured and validate user roles before allowing access to admin-specific functionalities.
- Endpoints for creating teams, updating teams, assigning tasks, etc., should have authorization checks to ensure only users with the "admin" role can access them.

API EndPoint and access for user and Admin role

Here's the table format for all the routes with the added base URL

`http://localhost:4002/api/v1/:`

| HTTP Method | Route | Description | Authorization |
|----------------|-------|-------------|---------------|
|----------------|-------|-------------|---------------|

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| | | | |
|--------|-------------------------|--------------------------------|--------------------|
| POST | /api/v1/register | Register a new user | None |
| POST | /api/v1/login | Log in a user | None |
| GET | /api/v1/logout | Log out the user | None |
| GET | /api/v1/me | Get user details | Authenticated User |
| PUT | /api/v1/password/update | Update user password | Authenticated User |
| PUT | /api/v1/me/update | Update user profile | Authenticated User |
| GET | /api/v1/admin/users | Get all users (admin only) | Admin |
| GET | /api/v1/admin/user/:id | Get a single user (admin only) | Admin |
| PUT | /api/v1/admin/user/:id | Update user role (admin only) | Admin |
| DELETE | /api/v1/admin/user/:id | Delete a user (admin only) | Admin |
| GET | /api/v1/teams | Get all teams (admin only) | Admin |

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| | | | |
|--------|--------------------|---------------------------------------|--------------------|
| POST | /api/v1/teams | Create a team (admin only) | Admin |
| GET | /api/v1/teams/:id | Get a team by ID (admin only) | Authenticated User |
| PUT | /api/v1/teams/:id | Update a team by ID (admin only) | Admin |
| DELETE | /api/v1/teams/:id | Delete a team by ID (admin only) | Admin |
| GET | /api/v1/user/teams | Get teams by user ID | Authenticated User |
| POST | /api/v1/tasks | Create a task (admin only) | Admin |
| GET | /api/v1/tasks | Get all tasks (admin only) | Admin |
| PUT | /api/v1/tasks/:id | Update a task by ID (admin only) | Admin |
| DELETE | /api/v1/tasks/:id | Delete a task by ID (admin only) | Admin |
| GET | /api/v1/user/tasks | Get all tasks for all team members | Authenticated User |

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|-----|--|---|--------------------|
| GET | /api/v1/user/tasks/:taskId | Get a task by ID for a user | Authenticated User |
| PUT | /api/v1/tasks/:taskId/completions | Update completion status for team or individual | Authenticated User |
| GET | /api/v1/user/notifications | Get all notifications for a user | Authenticated User |
| PUT | /api/v1/user/notifications/:notificationId | Update notification read status | Authenticated User |
| GET | /api/v1/taskCompletions | Get all task completions (admin only) | Admin |
| GET | /api/v1/taskCompletions/:taskCompletionId | Get a task completion by ID (admin only) | Admin |

This table summarizes the HTTP methods, routes, descriptions, and required authorization levels for each endpoint in your Express API.