**TaskFlow — Task Management Platform**

**TaskFlow** is a full-stack task management web application designed to help users efficiently manage daily tasks, track progress, and collaborate. It includes user authentication, CRUD task management, and dark node toggle built with React and Tailwind CSS.

**Features:**

* User authentication (Signup/Login with JWT).
* Secure password hashing using bcrypt.
* Task creation, editing, deletion, and completion tracking.
* MongoDB database for persistent data.
* RESTful API with Express.js backend.
* Protected routes using JWT verification.
* Responsive and modern UI using Tailwind CSS.
* Frontend and backend deployed on Vercel and Render.

**Tech Stack**

**Frontend:**

* React.js
* React Router DOM
* Axios
* Tailwind CSS

**Backend:**

* Node.js
* Express.js
* MongoDB (via Mongoose)
* JSON Web Token (jsonwebtoken)
* bcryptjs
* cors
* Deployed on **Render**

|  |  |  |
| --- | --- | --- |
| Component | Platform | URL |
| Backend API | Render | |  | | --- | |  |  |  | | --- | | <https://task-backend-api-p20y.onrender.com/> | |
| Frontend App | Vercel | <https://task-frontend-two-roan.vercel.app/> |

**Installation & Setup**

**1️. Clone the repository**

Clone both repo backend and frontend-

Backend- <https://github.com/fajr07/Task-backend>

Frontend- <https://github.com/fajr07/Task-frontend>

**2️. Setup Backend-**

**Navigate to backend folder**

cd backend

**Install dependencies**

npm install

**Configure environment variables**

Create a .env file in the **backend** folder and add:

PORT=5000

MONGO\_URI=mongodb+srv://fajrk16032002\_db\_user:faju1570@cluster0.ti1t2ri.mongodb.net/task\_manager

JWT\_SECRET=your\_secret\_key

**Run the backend server**

nodemon server.js

The backend runs on <http://localhost:5000>

**3. setup frontend-**

**Install Dependencies**

npm install

**Create a .env File**

VITE\_API\_BASE\_URL= https://task-backend-api-p20y.onrender.com/api

**(**The backend must be running (locally or deployed) for the frontend to work.**)**

**Start the Development Server**

npm run dev

**(**By default, the app runs at: http://localhost:5173**)**

Project Structure-

Task\_management/

│

├── backend/

│ ├── server.js

│ ├── models/

│ │ └── User.js

│ │ └── Task.js

│ ├── routes/

│ │ └── auth.js

│ │ └── task.js

│ │ └── profile.js

│ ├── middleware/

│ │ └── auth.js

│ └── .env

│

├── frontend/

│ ├── src/

│ │ ├── components/

│ │ └── TaskCard.jsx

│ │ └── ProtectedRoute.jsx

│ │ └── Navbar.jsx

│ │ └── Filters.jsx

│ │ └── DarkToggle.jsx

│ │ └── DarkToggle.css

│ │ ├── pages/

│ │ └── Dashboard.jsx

│ │ └── Login.jsx

│ │ └── Profile.jsx

│ │ └── Signup.jsx

│ │ └── TaskForm.jsx

│ │ ├── context/

│ │ └── AuthContext.jsx

│ │ └── TaskContext.jsx

│ │ ├── api.js

│ │ └── App.jsx

│ │ └── App.css

│ │ └── chartConfig.js

│ │ └── main.jsx

│ │ └── index.css

│ ├── public/

│ ├── package.json

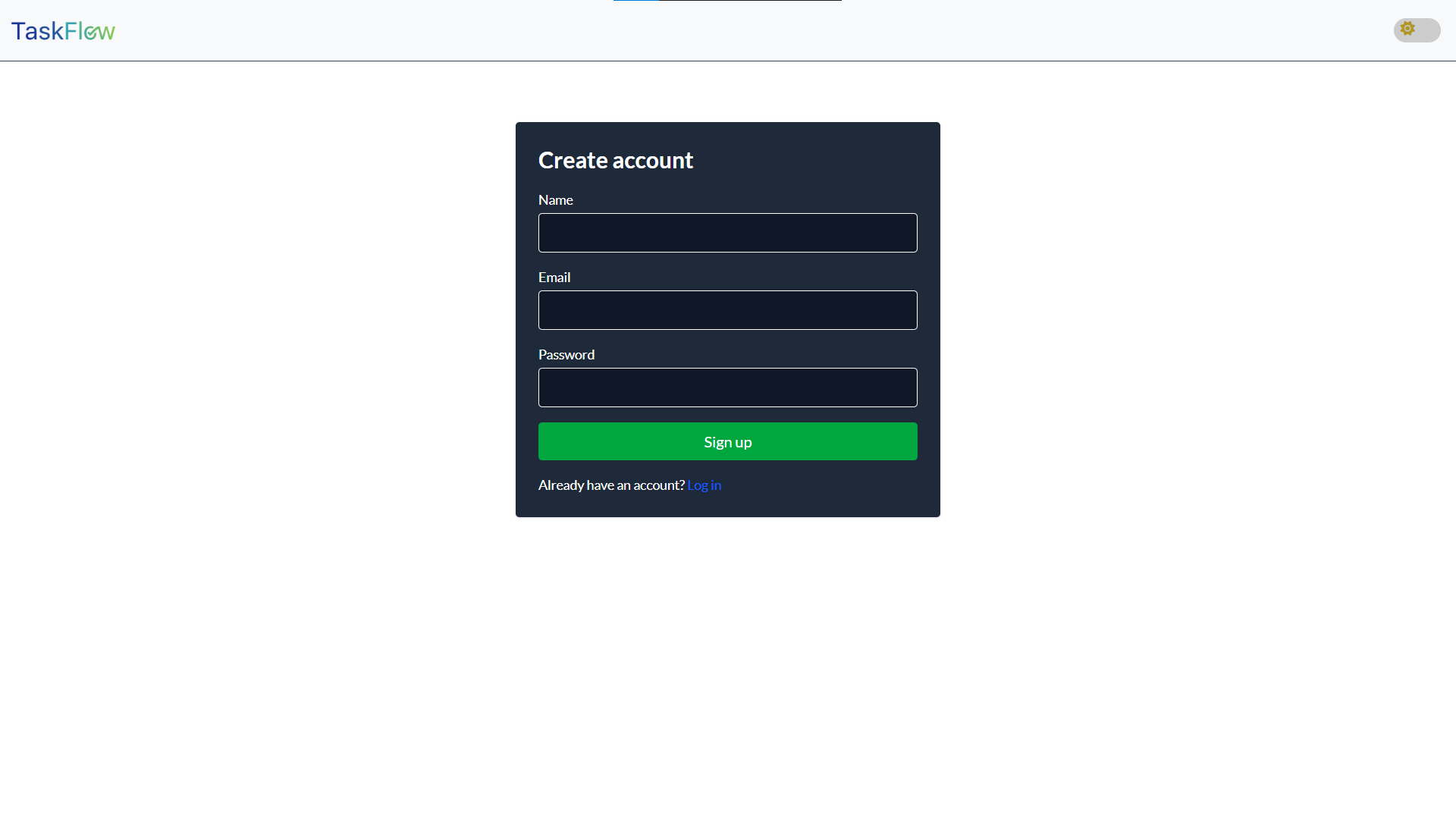
│ └── imdex.html

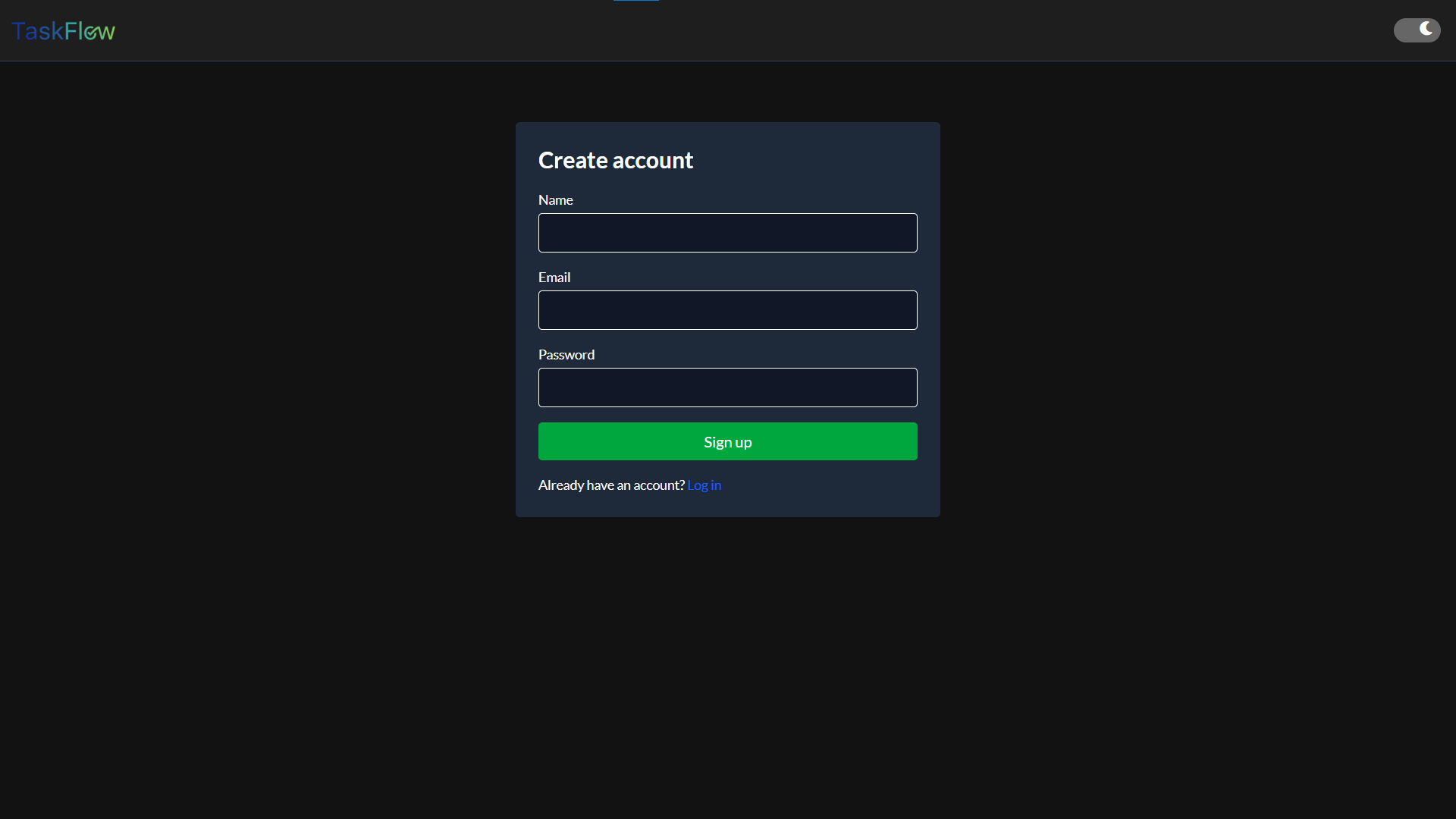
│

└── README.md

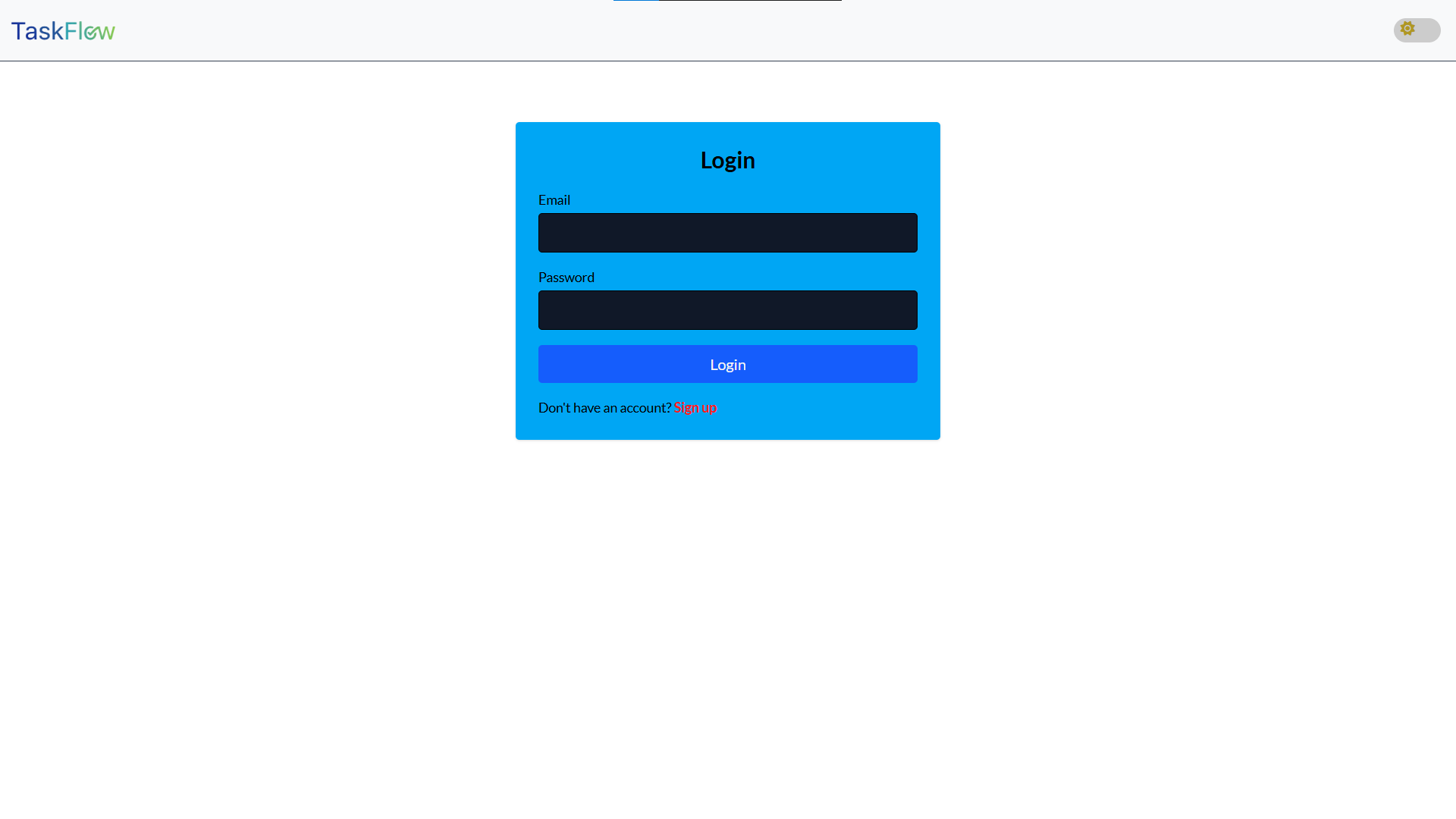
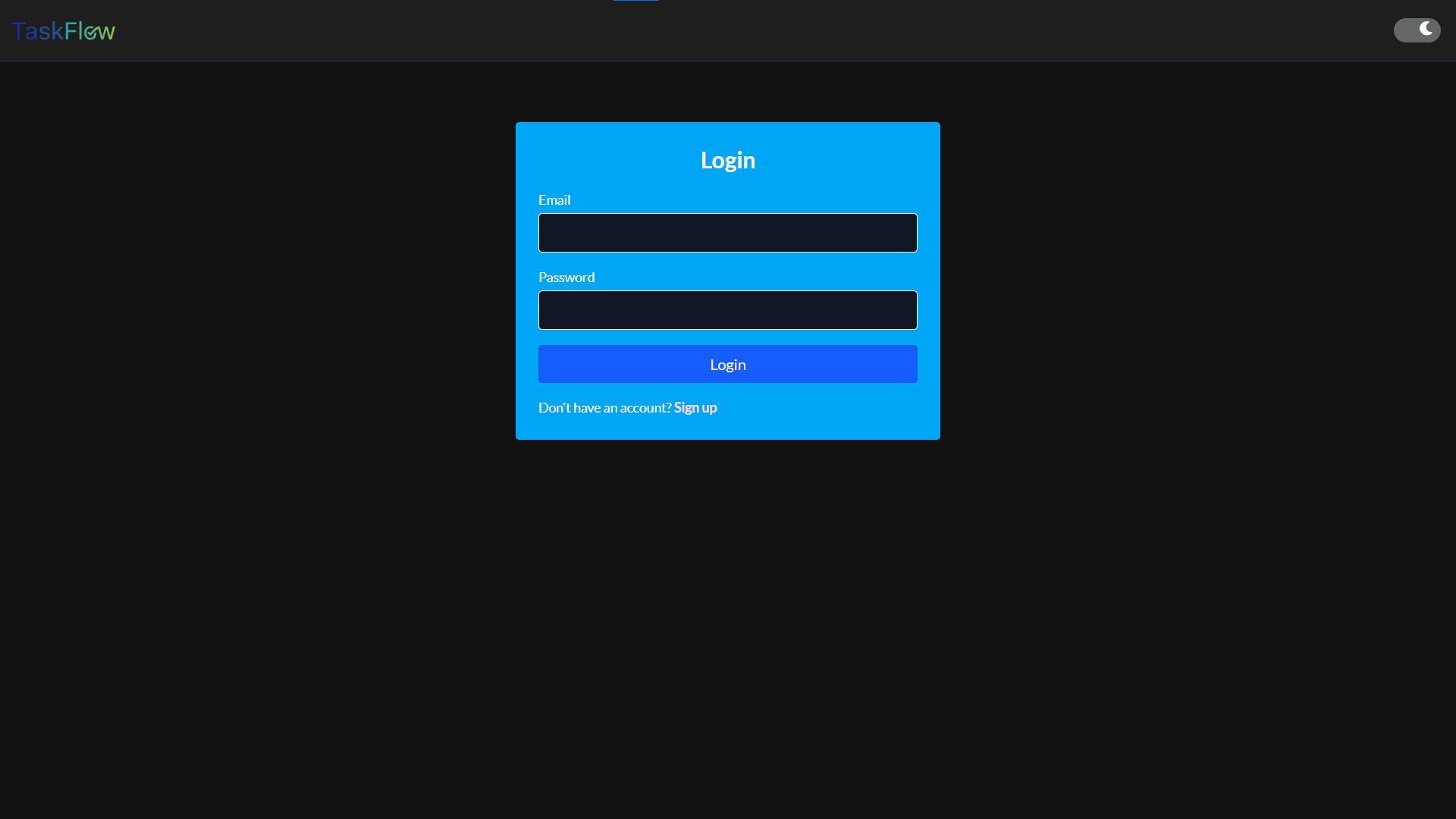
**Screenshots-**

Signup page-

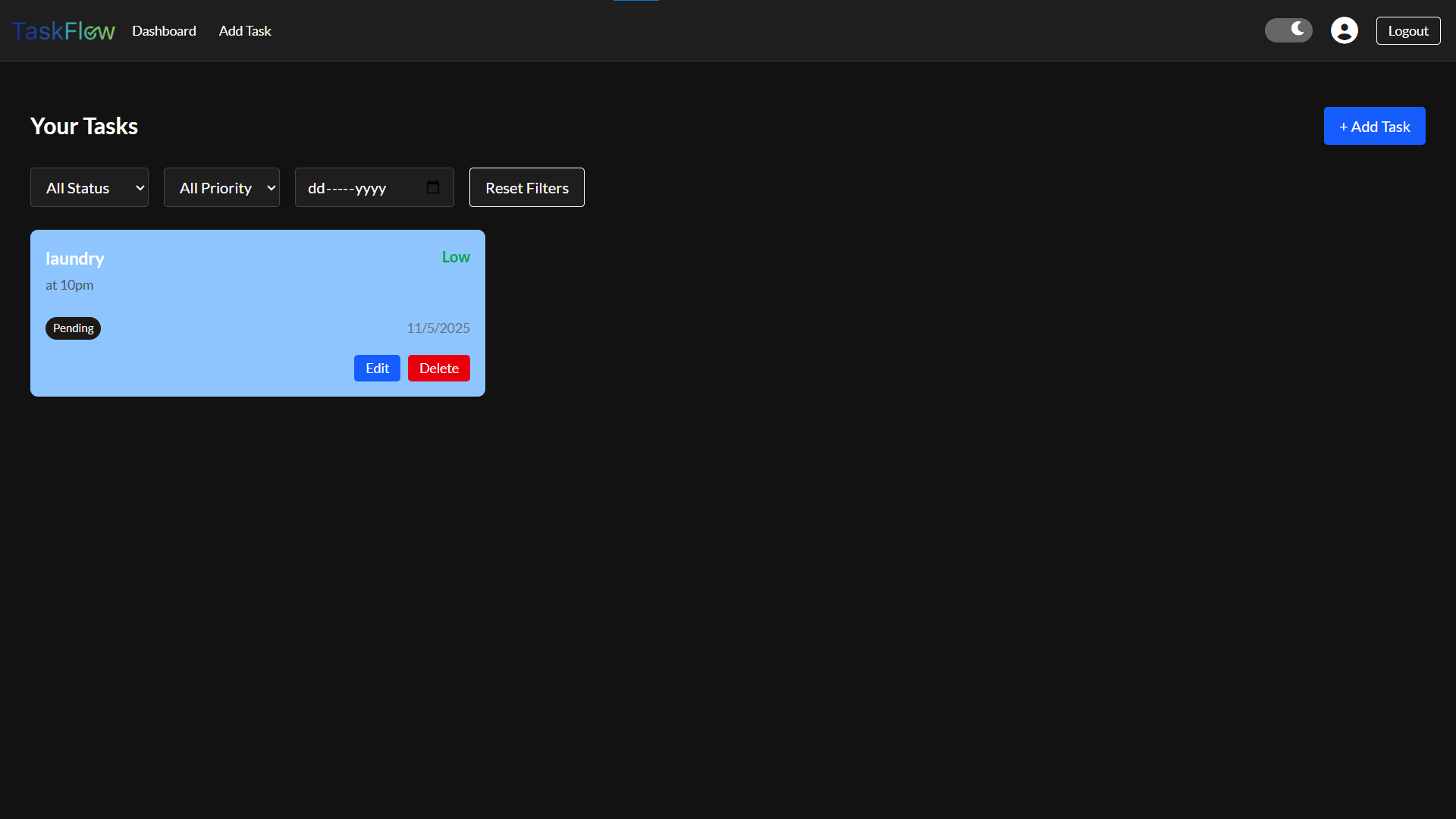


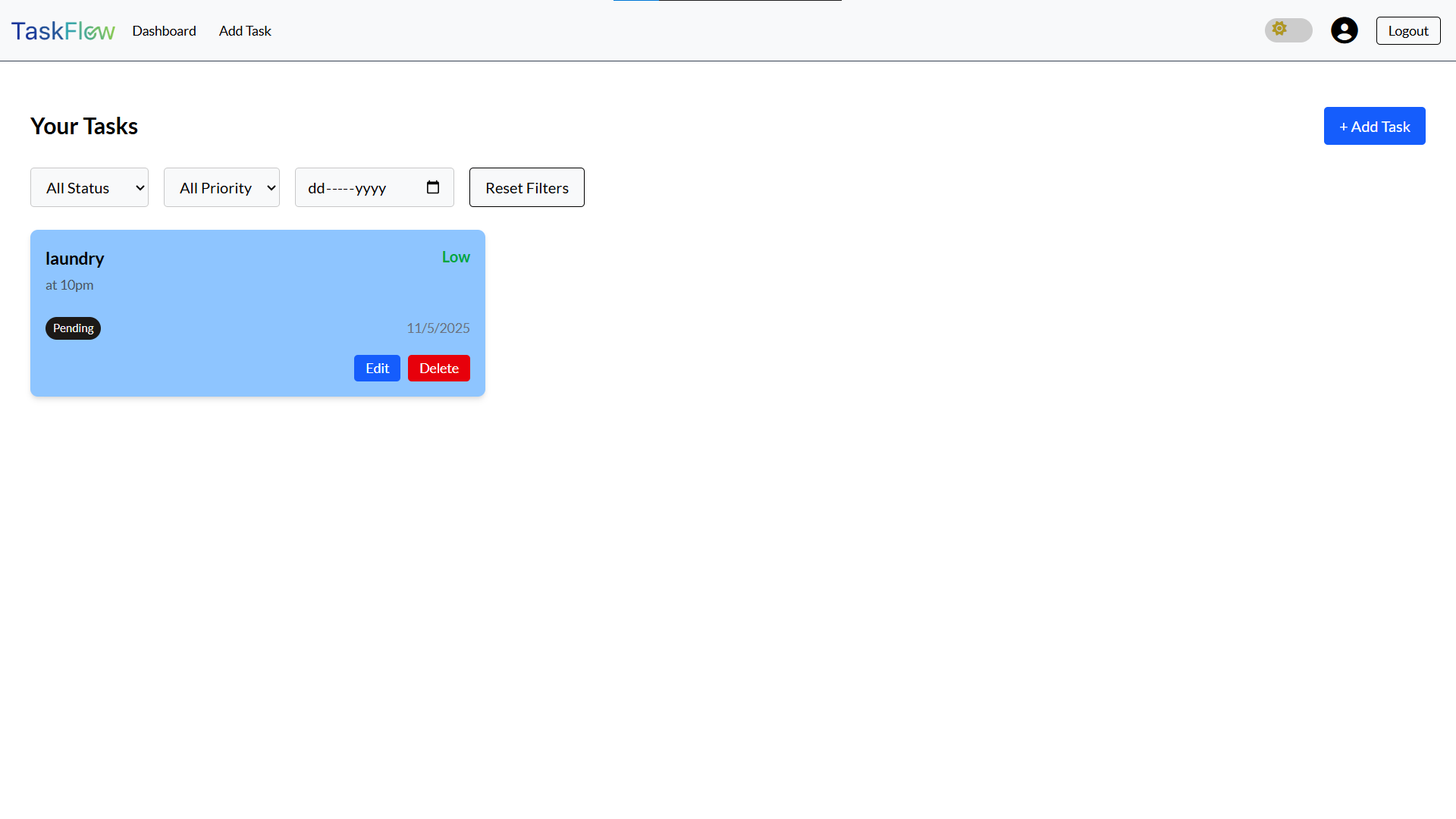


Login page-

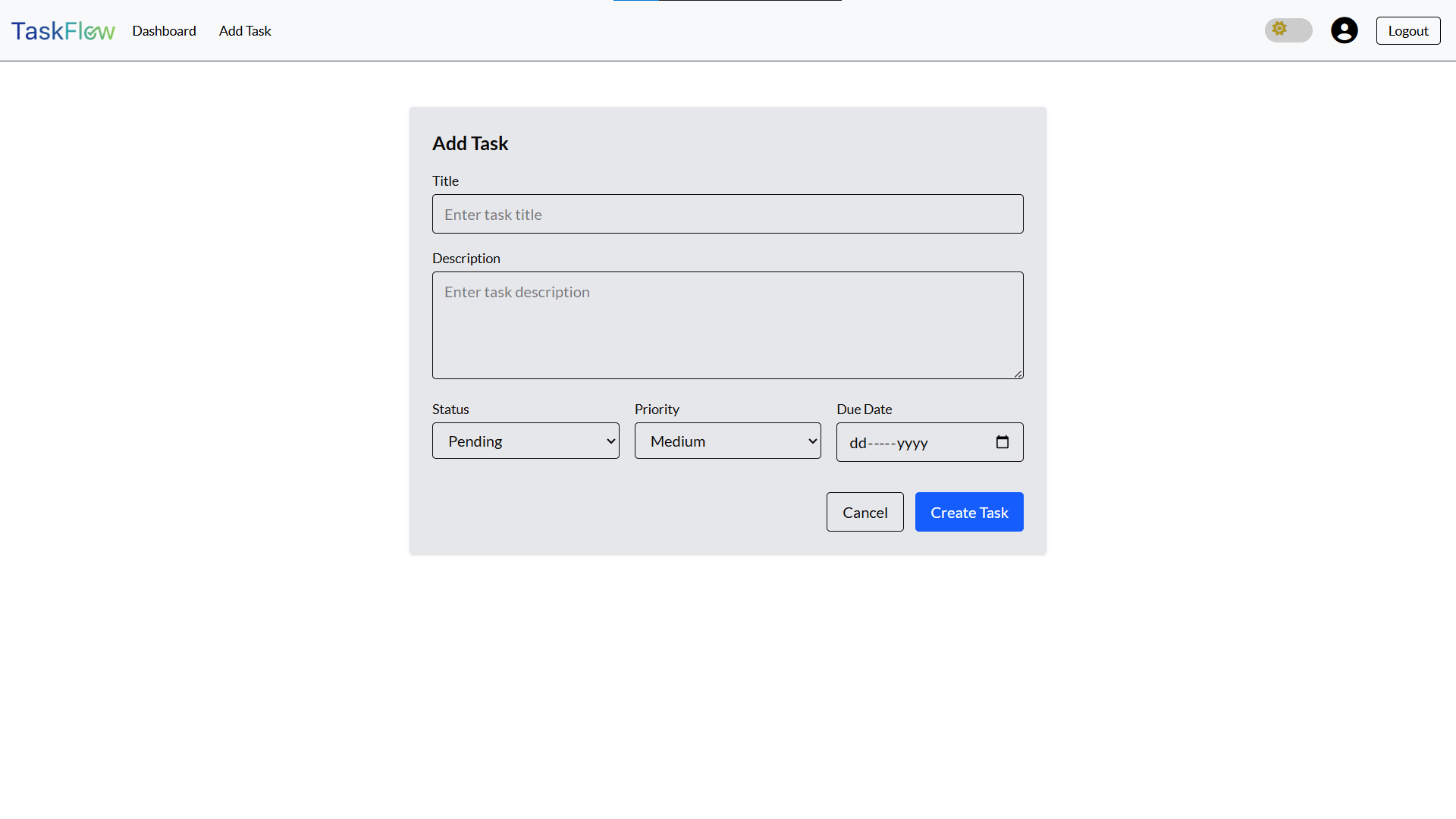
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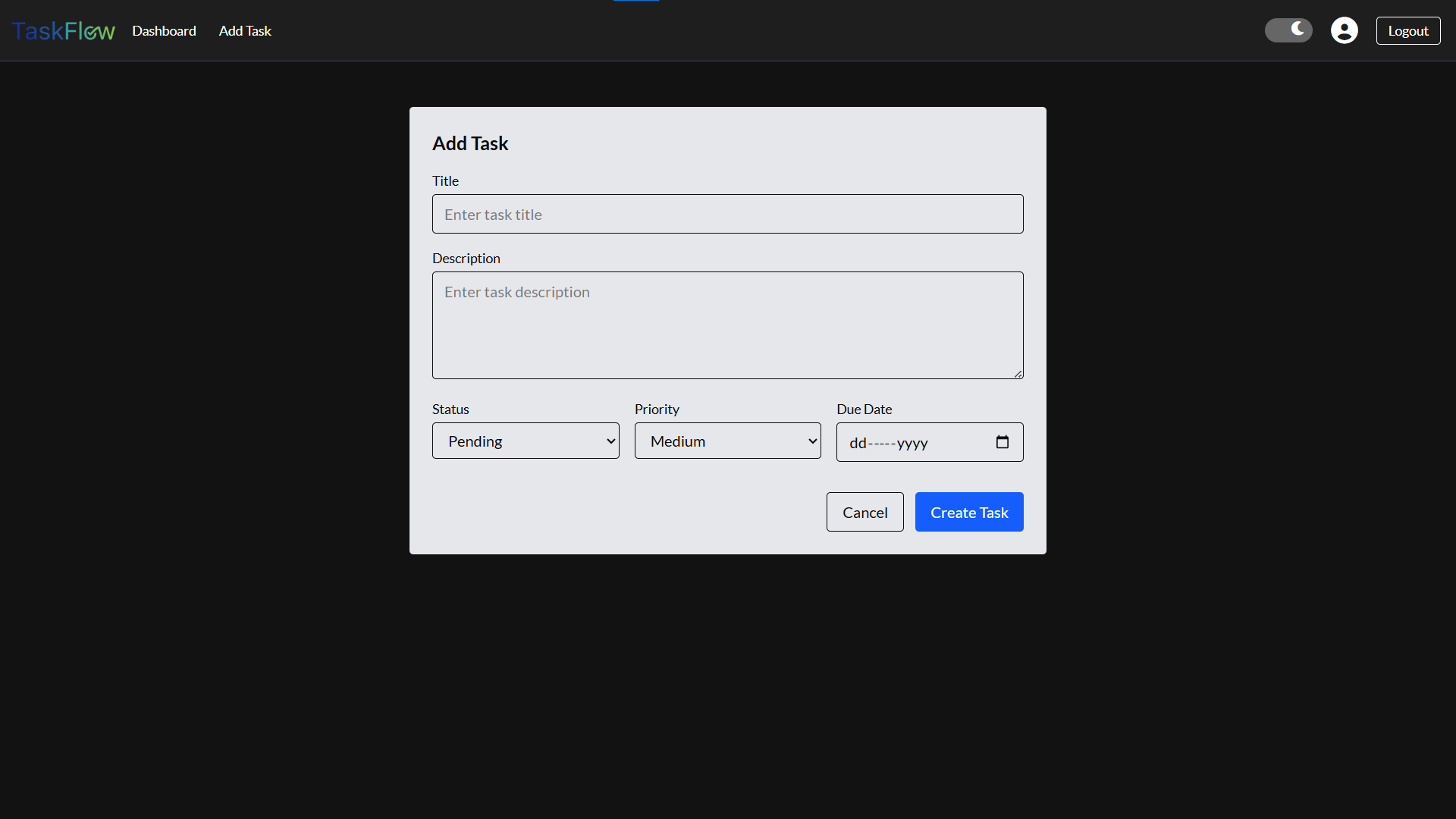
Dashboard-

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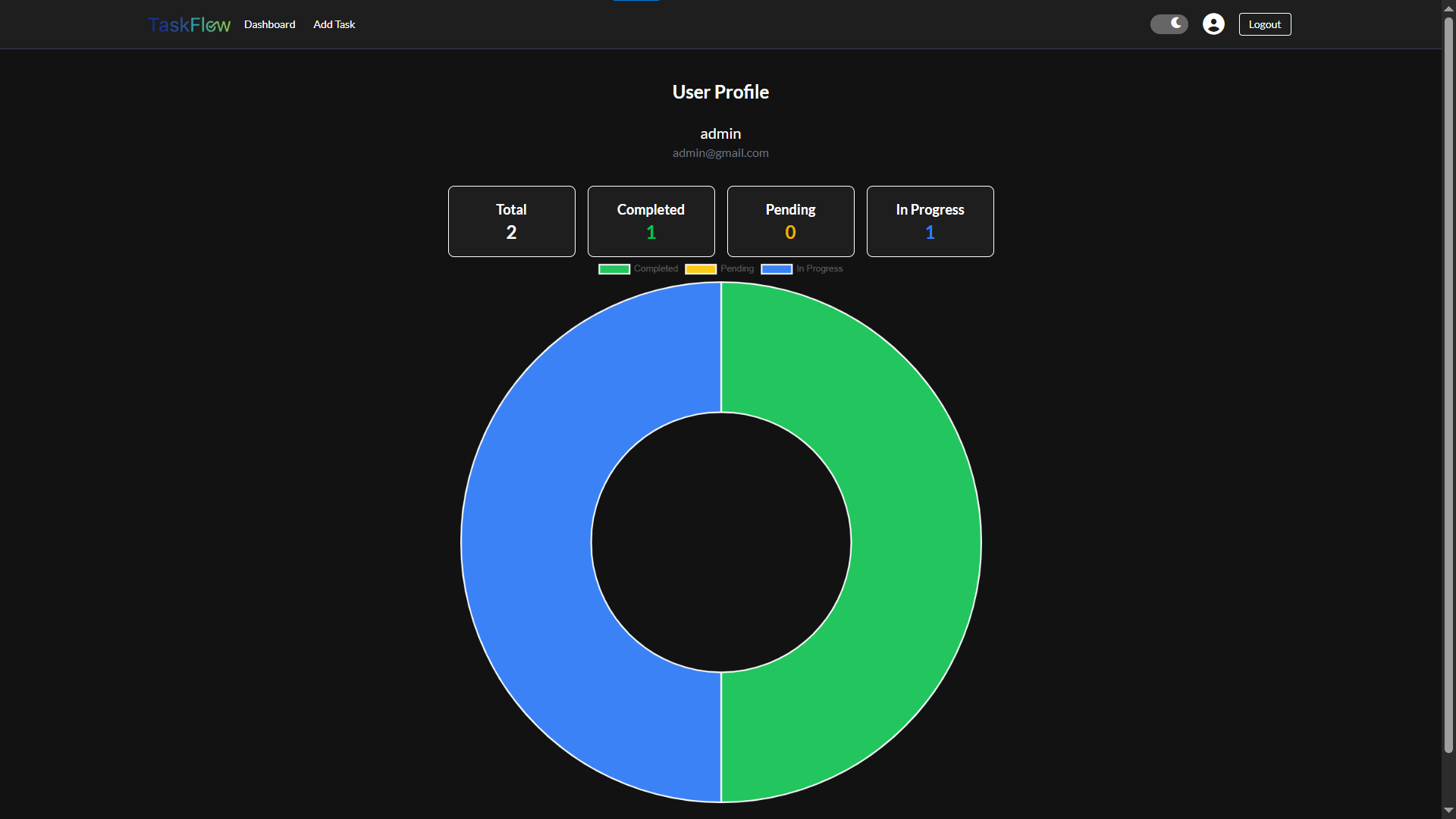


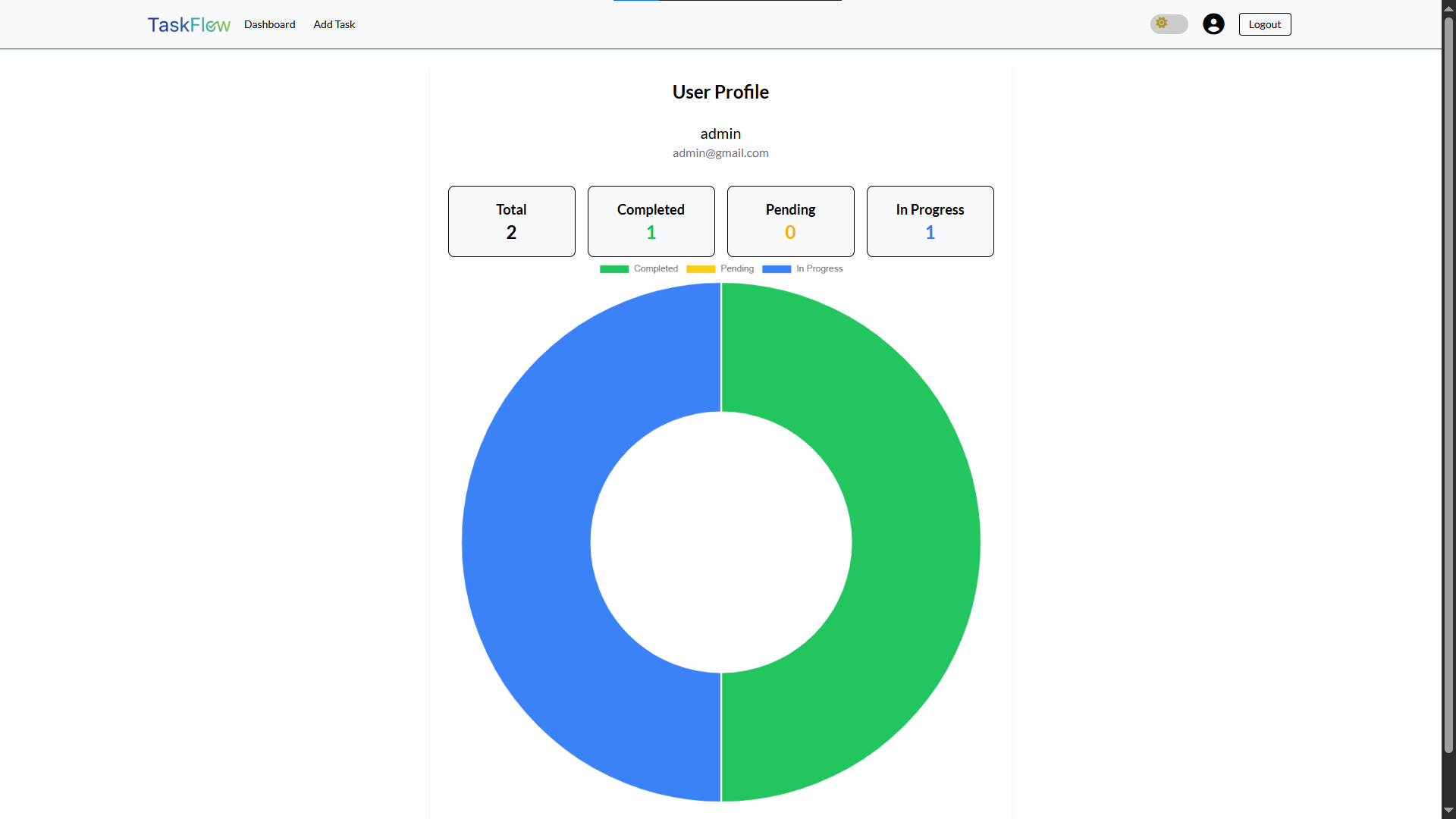
Add Task page-





Profile page-





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