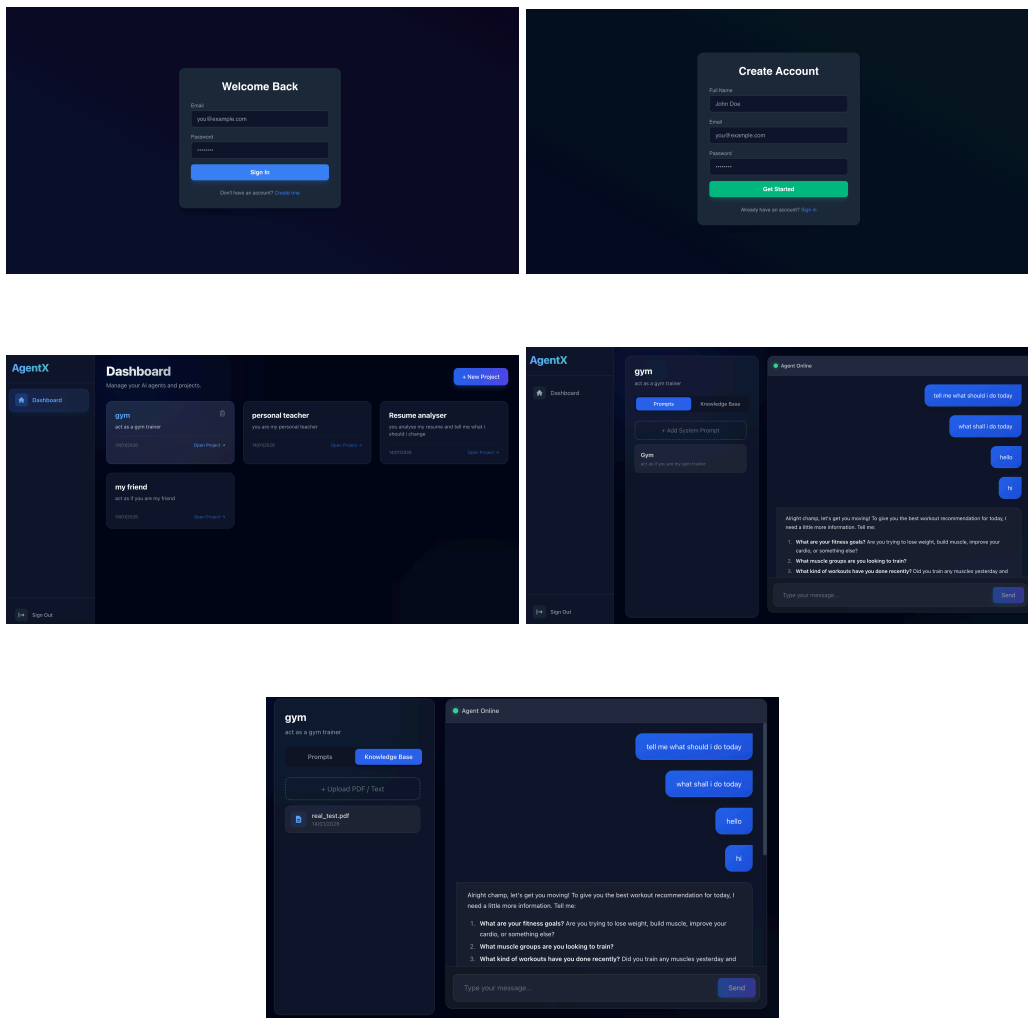


Chatbot Platform - MERN Stack

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A modern chatbot platform built with the MERN stack (MongoDB, Express, React, Node.js), featuring project-based AI agents with document text extraction (PDF/Plain Text) and chat persistence.

Screenshots



Features

- **Project Management:** Create and manage multiple AI projects.
- **File Upload & Knowledge Base:** Upload PDFs and text files to projects. Automatic text extraction using pdf-parse .
- **AI Chat:** Interactive chat interface powered by OpenRouter (OpenAI/LLMs).
- **History:** Full chat history persistence for each project.
- **Authentication:** Secure user registration and login with JWT.

- **Clean UI:** Responsive dashboard with glassmorphism aesthetics.

Tech Stack

- **Frontend:** React, TypeScript, Tailwind CSS, Vite, Axios, React Router.
- **Backend:** Node.js, Express, TypeScript, Muler, JWT, Bcrypt.
- **Database:** MongoDB (Mongoose).
- **AI Integration:** OpenRouter API.

Setup Instructions

Prerequisites

- Node.js (v18+)
- MongoDB (Local or Atlas)
- OpenRouter API Key

1. Clone the repository

```
git clone <your-repo-url>
cd chatbot
```

2. Backend Setup

1. Navigate to the server directory:

```
cd server
```

2. Install dependencies:

```
npm install
```

3. Create a `.env` file in the `server` folder:

```
PORT=5001
MONGO_URI=your_mongodb_connection_string
JWT_SECRET=your_jwt_secret
OPENROUTER_API_KEY=your_openrouter_api_key
```

4. Start the server:

```
npm run dev
```

3. Frontend Setup

1. Open a new terminal and navigate to the client directory:

```
cd client
```

2. Install dependencies:

```
npm install
```

3. Start the development server:

```
npm run dev
```

4. Open your browser at `http://localhost:5173` .

Pushing to GitHub

Follow these steps to upload the project to your GitHub repository:

1. **Create a new repository** on GitHub (do not initialize with README).
2. **Initialize Git** in the project root:

```
git init
```

3. **Add all files:**

```
git add .
```

4. **Commit your changes:**

```
git commit -m "Initial commit: Chatbot Platform with File Uploads and Project Deletion"
```

5. **Add the remote origin:**

```
git remote add origin https://github.com/YOUR_USERNAME/YOUR_REPO_NAME.git
```

6. **Push to the main branch:**

```
git push -u origin main
```

Hosting

Ready to go live? Check out our [DEPLOYMENT.md](#) for step-by-step instructions on hosting the backend on **Render** and the frontend on **Vercel**.

API Routes

Authentication (`/api/auth`)

- `POST /register` : Register a new user.
- `POST /login` : Log in and receive a JWT token.

Projects (`/api/projects`)

- `GET /` : Get all projects for the authenticated user.
- `GET /:id` : Get details for a specific project.

- `POST /` : Create a new project.
- `DELETE /:id` : Delete a project and all associated data (files, chats, prompts).
- `GET /:projectId/prompts` : Get all prompts for a project.
- `POST /:projectId/prompts` : Add a new prompt to a project.

Files (`/api/files`)

- `GET /:projectId` : List all files uploaded to a project.
- `POST /upload` : Upload a PDF or Text file (multi-part form data).
- `DELETE /:id` : Delete a specific file.

Chat (`/api/chat`)

- `GET /:projectId` : Retrieve chat history for a project.
- `POST /` : Send a message and get an AI response (includes file context).

Contributing

Contributions are welcome! Please read our [CONTRIBUTING.md](#) and [CODE OF CONDUCT](#) for details on our code of conduct, and the process for submitting pull requests to us.

License

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