CHAT WEB APP

A real-time chat web application built with TypeScript integrated with a Cody AI service and hosted on Firebase.

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Overview

The Chat Web App is a modern web application that allows users to engage in real-time chat with a Cody AI service. It is built using React, TypeScript, and integrates with a chatbot API to send and receive messages. This README provides a comprehensive guide to the project, its features, prerequisites, installation steps, usage instructions, API integration details, troubleshooting tips, and information on contributing to the project.

Features

1. **Firebase Integration and Authentication:** The app offers a seamless Firebase auth protocol where users can sign up, verify email address and login to interact with Cody AI.
2. **Real-time Chat Interface**: A user-friendly and responsive chat interface to send and receive messages in real-time.
3. **Integration with Cody AI Service:** Seamless integration with a Cody AI API to provide intelligent responses and engage in meaningful conversations.
4. **Chat History:** The application stores chat history in local storage, allowing users to review previous conversations.
5. **Error Handling:** Robust error handling for API requests, providing a smooth user experience.
6. **Testing**: Comprehensive test suite to ensure the reliability and performance of the application.

7. **Deployment**: Guidance on deploying the application to a live environment for public access.

Prerequisites

Before you begin, ensure you have met the following requirements:

i. Node.js and npm (or yarn): Ensure that Node.js and a package manager (npm or yarn) are installed on your development environment.
ii. API Key: Obtain an API key for the Cody AI service which we intend to integrate with. https://developers.meetcody.ai/ - get guide from link.
iii. Firebase: go to https://console.google.com and set up your project and add web to the project to be able to get the data.

Installation

1. Clone the Repository:

```bash
git clone https://github.com/Nwokedi10/turing-web-app.git
```

2. Navigate to the project directory:

```bash
cd turing-web-app
```

3. Install dependencies:

You can directly use the code for npm or replace npm with “yarn”

```bash
npm install
```

Configuration

To configure the Chat Web App, follow these steps:

API Key Setup:

i. Obtain an API key from the chatbot service you intend to use.
ii. Create a .env File:
iii. Create a .env file in the root directory of the project.

Add the API Key:

In the .env file, add your API key as follows:

```env
REACT_APP_API_KEY=your-api-key
```

Usage

1. **Start the Development Server:**

If you use npm or (yarn - replace npm with yarn)

```bash
npm start
```

2. **Access the Application:**

Open your preferred web browser and access the application at port - http://localhost:3000.

3. **Engage in Real-Time Chat**:

Start interacting with Cody AI. Messages are stored in local storage for future reference.

API Integration

The Chat Web App seamlessly integrates with a chatbot API to provide real-time responses. The API key should be configured as described in the **Configuration** section above.

Contributing

I am happy to release this project as Turing assessment welcome contributions to the Chat Web App. If you'd like to contribute, follow these steps:

1. **Fork the Repository:**

Fork the repository to your own GitHub account.

2. **Create a Branch:**

Create a branch for your feature or bug fix:

```bash
git checkout -b feature/your-feature-name
```

3. **Commit and Push:**

Commit your changes and push them to your forked repository:

```bash
git commit -m "Add your feature"
git push origin feature/your-feature-name
```

4. **Open a Pull Request:**

Open a pull request from your forked repository to the original repository.

Tests

The Chat Web App includes a comprehensive test suite to ensure reliability and performance. To run the tests, use the following commands:

For npm (replace yarn with npm if you use yarn):

```bash
npm test
```

Deployment

You can deploy the Chat Web App to a live environment for public access. Follow the deployment instructions for your hosting platform of choice.

Troubleshooting

If you encounter issues while using the Chat Web App, refer to the troubleshooting section for guidance on common problems and solutions.

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