# AI Code Reviewer

AI Code Reviewer is a web application that utilizes Google's Gemini Flash 2.0 API to analyze and review code snippets. Built with React.js for the frontend and Node.js for the backend, it provides an AI-driven code review experience.

## Features

- \*\*AI-Powered Code Review\*\*: Uses Google's Gemini Flash 2.0 API for code analysis.

- \*\*Syntax Highlighting\*\*: Enhanced code readability with Prism.js and React Simple Code Editor.

- \*\*Markdown Support\*\*: Displays AI feedback in markdown format.

- \*\*Real-time Feedback\*\*: Fast and interactive code review experience.

- \*\*Modern UI\*\*: Designed with TailwindCSS and Lucide React icons.

- \*\*Deployed on Render\*\*: Accessible online with backend and frontend hosted seamlessly.

## Tech Stack

### Frontend

- React.js

- Vite

- TailwindCSS

- Axios

- Prism.js

- React Markdown

- React Simple Code Editor

### Backend

- Node.js

- Express.js

- @google/generative-ai (Gemini Flash 2.0)

- Dotenv

- Cors

## Installation

### Prerequisites

Ensure you have \*\*Node.js\*\* and \*\*npm\*\* installed.

### Clone the Repository

```sh

git clone https://github.com/yourusername/aicoderreviewer.git

cd aicoderreviewer

```

### Backend Setup

```sh

cd backend

npm install

npm start

```

### Frontend Setup

```sh

cd ../frontend

npm install

npm run dev

```

## Deployment

This project is deployed on \*\*Render\*\*. You can access it [here](https://your-app-url.onrender.com).

### Deploying on Render

1. Create a \*\*Render\*\* account.

2. Deploy the \*\*backend\*\* as a web service.

3. Deploy the \*\*frontend\*\* as a static site and configure it to point to the backend URL.

4. Set up necessary \*\*environment variables\*\*.

## Contributing

We welcome contributions! Follow these steps to contribute:

### Fork the Repository

1. Go to the [repository](https://github.com/yourusername/aicoderreviewer) on GitHub.

2. Click on the \*\*Fork\*\* button (top right corner) to create a copy of the repository under your GitHub account.

### Clone Your Fork

```sh

git clone https://github.com/yourusername/aicoderreviewer.git

cd aicoderreviewer

```

### Create a Branch

```sh

git checkout -b feature-name

```

### Make Changes and Commit

1. Make your changes in the appropriate files.

2. Stage your changes: `git add .`

3. Commit your changes: `git commit -m "Added new feature"`

### Push to Your Fork

```sh

git push origin feature-name

```

### Create a Pull Request

1. Go to your forked repository on GitHub.

2. Click on the \*\*Compare & pull request\*\* button.

3. Add a descriptive title and comment about the changes.

4. Submit the \*\*Pull Request\*\*.

### Contribution Path

- \*\*Frontend contributions\*\*: `frontend/`

- \*\*Backend contributions\*\*: `backend/`

- \*\*API integrations\*\*: `backend/server.js`

- \*\*UI/UX improvements\*\*: `frontend/src/`

## License

This project is licensed under the \*\*ISC License\*\*.

## Author

Developed by \*\*Khushi Pandey\*\*.

---

Feel free to contribute and improve AI Code Reviewer! 🚀