Project Documentation

Project Overview

This is a Node.js/Express application that uses server-side rendering with EJS templates and integrates with Firestore for database operations. The application consists of a form page where users can submit information and a success page that is displayed after form submission.

Prerequisites

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

- **Node.js**: Version 12.x or later
- **npm**: Version 6.x or later
- **Firestore**: A Firestore database set up with the necessary credentials

Project Setup

Follow these steps to set up and run the project locally:

1. Clone the Repository

To get a copy of the project, clone the repository using the following command:

```sh
Copy code
git clone <your-repo-url>
```

Alternatively, you can download the ZIP file from the GitHub repository and unzip it.

2. Navigate to the Project Directory

Move into the project directory:

```sh
Copy code
cd <your-project-directory>
```

3. Add the `.env` File

Create a `.env` file in the root directory of the project and add the following environment variables:

```env
Copy code
FIREBASE_API_KEY=your_api_key
FIREBASE_AUTH_DOMAIN=your_auth_domain
FIREBASE_PROJECT_ID=your_project_id
FIREBASE_STORAGE_BUCKET=your_storage_bucket
FIREBASE_MESSAGING_SENDER_ID=your_messaging_sender_id
```

```
FIREBASE_APP_ID=your_app_id
```

Replace the placeholder values with your actual Firestore credentials.

4. Install Dependencies

Run the following command to install all necessary dependencies:

```sh
Copy code
npm install
```

Running the Application

To start the application, run:

```sh
Copy code
npm start
```

The application will be available at `http://localhost:3000`.

Project Structure

The project is structured as follows:

- **`public/`**: Contains the static HTML files.
    - `form.html`: The form page where users can submit their information.
    - `success.html`: The success page displayed after the form is successfully submitted.
- **`routes/`**: Contains the route definitions.
    - `index.js`: Handles form submissions and renders pages.
- **`views/`**: Contains the EJS templates.
    - `form.ejs`: The EJS template for the form page.
    - `success.ejs`: The EJS template for the success page.
- **`app.js`**: The main application file.

Firestore Configuration

To integrate Firestore with your application, ensure that you have created a Firestore database and added the appropriate credentials to your `.env` file. The credentials include:

- `FIREBASE_API_KEY`
- `FIREBASE_AUTH_DOMAIN`
- `FIREBASE_PROJECT_ID`
- `FIREBASE_STORAGE_BUCKET`
- `FIREBASE_MESSAGING_SENDER_ID`
- `FIREBASE_APP_ID`

Route Definitions

The application defines the following routes:

- **GET `/`**: Renders the form page.
- **POST `/submit`**: Handles form submissions and redirects to the success page.

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Acknowledgments

- [Express](#)
- [Firebase](#)
- [Node.js](#)

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