CountryVote - Setup Guide

How to Run the Project
Prerequisite:
- **Download Node.js**
- **Download MySQL (only if you want to use it with a database)**

1. Clone the repository

2. Navigate to the backend project
```
cd backend
```

3. Install dependencies:
```
npm install
```

4. (Optional) Set Up the MySQL Database
If you want to use MySQL instead of in-memory storage, follow these steps:

Create a MySQL Database and table:
```
CREATE DATABASE country_vote;

CREATE TABLE users (
    id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(255) NOT NULL,
    email VARCHAR(255) NOT NULL UNIQUE,
    favorite_country VARCHAR(255) NOT NULL
);
```

Create a .env file in the backend directory with the following content:
DB_HOST=localhost
DB_USER=root
DB_PASSWORD=yourpassword
DB_NAME=country_vote
USE_MYSQL=true

4. Start the server
```
npm run dev
```
The server will start on http://localhost:3000.

5. Open a new Terminal window and navigate to frontend project
```
cd frontend
```

6. Install dependencies:

```
npm install
```

7. Start the server

```
npm run dev
```

The server will start on http://localhost:3001, you can access it in your browser.

Connection Issues:
If the server fails to connect to MySQL, it will automatically fall back to using an in-memory database.

Steps to Run Postman Collection to generate Votes

- The collection simulates voting by sending POST requests to register votes for different countries. It also includes an endpoint to retrieve the top 10 countries based on the votes.
- The **Pre-request Script** automatically generates user data and votes for different countries.

1. Import the Postman Collection

1. **Open Postman**.
2. **Click on "Import"** in the top left corner.
3. **Drag and Drop the Collection File** into the import window or click "Upload Files" to select it manually.

2. Running the Collection Using the Collection Runner

1. Right click on the collection and select "Run Collection"
2. **Only select the POST User endpoint**:
3. **Set the Iteration Count**:
   • The collection runner will ask you how many times you want to run the request. Set this to the desired number, for example 100.
4. **Run the Collection**:
   • Click the **"Run"** button to start the process.
   • The script will randomly generate votes for different countries.