DexProjectFinder

DexProjectFinder is a Node.js-based tool for analyzing token data using Bitquery and managing it through MongoDB. It includes integration with Telegram to notify users about updates.

Features

- **Token Analysis:** Utilizes Bitquery API for blockchain data analysis.
- **Database Management:** MongoDB is used to store and manage token data.
- **Telegram Integration:** Sends real-time updates via a Telegram bot.

Prerequisites

Before running the project, ensure the following software and accounts are ready:

1. **Node.js:** Download and install Node.js.
2. **MongoDB:** Install and set up MongoDB locally or use a cloud MongoDB instance like MongoDB Atlas.
3. **Bitquery API Key:** Get an API key by signing up at Bitquery.
4. **Telegram Bot:** Create a bot using BotFather and get the token.

5. **DexTools API Token:** Obtain a valid token from DexTools.

Project Setup

2. Install Dependencies

Run the following command to install all required packages:

```
npm install
```

3. Configure Environment Variables

Create a `.env` file in the project directory with the following variables:

```
BITQUERY_API_KEY=<Your Bitquery API Key>
TELEGRAM_BOT_TOKEN=<Your Telegram Bot Token>
DEXTOOLS_TOKEN=<Your DexTools API Token>
DB_HOST=mongodb://localhost:27017  # Replace with your MongoDB URI
DB_NAME=dex_project_finder          # Replace with your database name
```

How to Run

1. Start MongoDB

Ensure MongoDB is running. If it's installed locally, you can start it with:

```
mongod
```

For MongoDB Atlas, ensure the connection URI in `DB_HOST` is correct.

2. Run the Project

Start the application with:

```
npm start
```

Verify Output

- The application should display logs like `Running TokenFinder` and database connection status.
- Telegram notifications will be sent if configured correctly.

Common Issues and Fixes

1. **MongoDB Connection Error:**
   - Ensure MongoDB is running and `DB_HOST` is set correctly in `.env`.
   - If using MongoDB Atlas, whitelist your IP address in the cluster settings.
2. **Bitquery API Error:**
   - Verify that your `BITQUERY_API_KEY` is active and correct.
3. **Telegram Bot Error:**
   - Ensure your `TELEGRAM_BOT_TOKEN` is valid and the bot is added to your Telegram chat.
4. **Dependencies Missing:**
   - Run `npm install` to ensure all dependencies are installed.