FastAPI Backend Launch Guide

This guide provides step-by-step instructions to set up and launch the FastAPI backend after cloning from the GitHub repository.

Prerequisites

Before starting, ensure you have the following installed:

- **Python (3.8 or later)**

- **pip** (Python package manager)

- **Git**

- **Virtual Environment (optional but recommended)**

Step 1: Clone the Repository

Open your terminal or command prompt and run the following command to clone the repository:

git clone https://github.com/donnillionaire/journal-app-backend.git

Step 2: Navigate into the Project Folder

Once the repository is cloned, move into the project directory:

cd journal-app-backend

Step 3: Create and Activate a Virtual Environment (Optional but Recommended)

To avoid dependency conflicts, create a virtual environment and activate it:

On macOS and Linux:

```
python3 -m venv venv
source venv/bin/activate
```

On Windows:

```
python -m venv venv
venv\Scripts\activate
```

Step 4: Install Dependencies

Install the required Python packages using:

```
pip install -r requirements.txt
```

Step 5: Launch the FastAPI Server

Start the FastAPI application using Uvicorn:

```
uvicorn app.main:app --reload
```

Optional: Specify a Host and Port

To run the server on a specific host and port (e.g., 0.0.0.0:8000), use:

```
uvicorn app.main:app --host 0.0.0.0 --port 8000 --reload
```

Step 6: Access the API

Once the server is running, you can access the API documentation at:

- **Swagger UI**: http://127.0.0.1:8000/docs

Troubleshooting

- If you encounter issues, ensure all dependencies are installed correctly.

- Check if the required environment variables are set.

- Verify that the database is running if the app relies on one.

- Use `uvicorn app.main:app`.

Conclusion

Following these steps will successfully launch the FastAPI backend. Ensure you have the correct configurations set up for smooth operation.

Frontend Setup

Prerequisites

- Node.js (version 16 or later)

- npm (Node package manager)

Steps

Clone the repository

```
git clone https://github.com/donnillionaire/journal-web-app.git
```

1. **Navigate into the project folder**
   ```
   cd journal-web-app
   ```
2. **Install dependencies**

   ```
   npm install
   ```
3. **Run the development server**

   ```
   npm run dev
   ```
4. **Access the frontend application**

   - Open http://localhost:5173 (default Vite port)