

# Lead Management FastAPI application on GitHub Codespaces

## Create a Codespace:

- Navigate to your repository on GitHub.
- Click on the "Code" button and select the "Codespaces" tab.
- Click on "Create codespace on main" (or the branch where your code is located).
- GitHub will start creating a new Codespace for your repository.

## Configure the Development Container:

- Once the Codespace is created, you will be presented with a Visual Studio Code (VS Code) interface running in the cloud.
- In the VS Code interface, open the Command Palette (Ctrl+Shift+P or Cmd+Shift+P).
- Search for "Dev Containers: Add Development Container Configuration Files" and select it.
- Choose "Python 3" as the container configuration.
- This will create a .devcontainer directory in your repository with configuration files for the development container.

## Install Dependencies:

In the VS Code terminal, activate the virtual environment by running `source fastapi/bin/activate` (or the appropriate command for your operating system).

Install the required Python packages by running `pip install -r requirements.txt`.

## Set up the Database:

Reuse the Sqlite3 database "leads.db" in the "app" directory

## Start the Application:

In the VS Code terminal, start the application by running

```
cd app/  
uvicorn main:app --reload --port 8000
```

This will start the application and automatically reload it when you make changes to the code.

## Access the Application:

Once the application is running, you can access it by clicking on the URL displayed in the terminal or by using the "Ports" tab in the VS Code interface.

The interactive API documentation will be available at <http://localhost:8000/docs>.