

Running the Application Locally

Prerequisites:

- Python 3.9
- pip (Python package installer)
- SQLite3 (lightweight database engine, installed with pip)

Step 1: Clone the Repository

```
git clone https://github.com/sumitpawar/Lead-Mgmt-FastAPI-Demo.git
cd Lead-Mgmt-FastAPI-Demo/Lead-Mgmt-System-FastAPI-Demo-V1
```

Step 2: Create a Virtual Environment

```
python3 -m venv env
source env/bin/activate # On Windows, use `env\Scripts\activate`
```

Note: a virtual environment with fastapi is already created, to reuse it you would need to change the VIRTUAL_ENV path in “fastapi/bin/activate”. Run “source fastapi/bin/activate” if you plan to reuse the entire environment as is.

Step 3: Install Dependencies

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

Step 4: Set up the Database

NOTE: A database with some dummy data is already available in the github repo. However, If you want to setup the database from scratch, run the following command in terminal:

```
touch leads.db
```

If the DB is setup again, Initialize the database with the required tables by running the following command:

```
python init_db.py
```

You can load some dummy data using the “[dummy_data-sqlite3.txt](#)” file from the repo.

Step 5: Start the Application

Make sure to start the server from inside the “app” folder

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

The --reload flag will automatically reload the server when you make changes to the code.

Step 6: Access the Application

Once the server is running, you can access the application at <http://localhost:8000>.

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

You can now interact with the application's endpoints, create leads, update lead statuses, and authenticate users using the provided dummy data or by creating new users.

For any additional help there is a file: [technical-how-to.txt](#) in the repo “app” folder for debugging issues.