



## give the steps to run in 1 page

Here is a concise one-page guide to set up and run your multi-agent Excel processing project with FastAPI backend and Streamlit frontend:

## Project Setup and Run Guide

### Prerequisites:

- Python 3.11 installed
- PowerShell or command line on Windows 10

### Steps:

#### 1. Navigate to project folder:

```
D:
cd \mcp_projects\agents\excel_multiagent_project
```

#### 2. Create and activate virtual environment:

```
python -m venv venv
& .\venv\Scripts\Activate.ps1    # Use Command Prompt: venv\Scripts\activate.bat
```

#### 3. Install required packages:

```
pip install fastapi "uvicorn[standard]" pandas openpyxl streamlit scikit-learn requests
```

#### 4. Start backend FastAPI server:

```
python -m uvicorn backend.main:app --reload
```

- Backend runs at: <http://localhost:8000>

#### 5. Open a new terminal, activate venv, navigate to project:

```
D:
cd \mcp_projects\agents\excel_multiagent_project
& .\venv\Scripts\Activate.ps1
```

## 6. Run Streamlit frontend app:

```
python -m streamlit run frontend/app.py
```

- Frontend runs at: <http://localhost:8501>

### Usage:

- Upload Excel files via Streamlit UI
- Enter queries to process data asynchronously through backend agents
- View interactive results on the UI

### Tips:

- Keep backend and frontend running in separate terminals
- Use `python -m` to run uvicorn and streamlit to avoid path issues
- If you add new dependencies, install them inside the activated virtual environment

This single-page guide covers the full setup and run workflow for your project.