**Task 1 Documentation**

1. **Set Up the Project Environment**

* Created a project folder and opened it in VS Code
* Ensured Python was installed and working (***python --version***)
* Verified the Python extension was installed in VS Code

1. **Creating and Activating a Virtual Environment**

* Created a virtual environment using ***python – m venv env***
* Activated the environment with ***env\Scripts\activate***

1. **Installed Required Dependencies**

* Fastapi - ***pip install fastapi***
* Uvicorn – ***pip install uvicorn***
* Motor – ***pip install motor***
* Pydantic – ***pip install pydantic***
* Python-dotenv – ***pip install python-dotenv***
* Requests – ***pip install requests***

After installation, I saved the list using ***pip freeze > requirements.txt***

1. **Created the API Using FastAPI**

* Created a file called **main.py**
* Pasted the starter code from Appendix B (Python FastAPI Code Example)
* Ran the FastAPI Server with ***uvicorn main:app –reload***
* Tested it by opening <http://127.0.0.1:8000/docs>

1. **GitHub**

* Created a private GitHub repository
* Initialised a git repo - ***git init***
* Added a remote origin to GitHub – ***git remote add origin*** <https://github.com/nic227/Database-Assignment.git>
* Committed and pushed everything to GitHub:
  + ***git add .***
  + ***git commit -m "Initial Commit: Task 1"***
  + ***git branch -M main***
  + ***git push -u origin main***