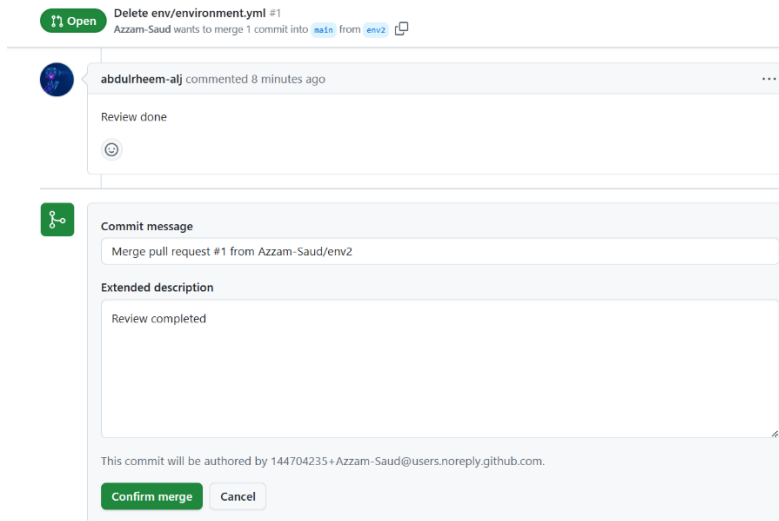


MLOps Deployment from PROD to DEV Lab Report

Developer Role :

- Created a new environment using Anaconda UI.
- Exported the environment to a YAML file using:
conda env export > environment.yml
- Uploaded project files and environment.yml to GitHub.
- Created a pull request, received a comment from my colleague, and then merged the branches.



Gatekeeper Role :

- Reviewed and downloaded my colleague's files from GitHub into a folder.
- Updated my environment using the shared YAML file with the command:
conda env update -f environment.yml --prune

```
Select C:\Windows\system32\cmd.exe

(SDA) D:\Azzam\Personal_Projects\SDA\env_lab\test\venv> conda env update -f environment.yml --prune
Channels:
 - defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done

Downloading and Extracting Packages:

Preparing transaction: done
Verifying transaction: done
Executing transaction: done
Installing pip dependencies: / Ran pip subprocess with arguments:
['C:\\Users\\azams\\anaconda3\\envs\\ProNull\\python.exe', '-m', 'pip', 'install', '-U', '-r', 'D:\\Azzam\\Personal_Projects\\SDA\\env_lab\\test\\venv\\condaenv.v5j3apum.requirements.txt', '--exists-action=b']
Pip subprocess output:
Collecting numpy==2.2.4 (from -r D:\\Azzam\\Personal_Projects\\SDA\\env_lab\\test\\venv\\condaenv.v5j3apum.requirements.txt (line 1))
  Downloading numpy-2.2.4-cp310-cp310-win_amd64.whl.metadata (60 kB)
Collecting pandas==2.2.3 (from -r D:\\Azzam\\Personal_Projects\\SDA\\env_lab\\test\\venv\\condaenv.v5j3apum.requirements.txt (line 2))
  Downloading pandas-2.2.3-cp310-cp310-win_amd64.whl.metadata (19 kB)
Collecting python-dateutil==2.9.0.post0 (from -r D:\\Azzam\\Personal_Projects\\SDA\\env_lab\\test\\venv\\condaenv.v5j3apum.requirements.txt (line 3))
  Downloading python_dateutil-2.9.0.post0-py2.py3-none-any.whl.metadata (8.4 kB)
Collecting pytz==2025.2 (from -r D:\\Azzam\\Personal_Projects\\SDA\\env_lab\\test\\venv\\condaenv.v5j3apum.requirements.txt (line 4))
  Downloading pytz-2025.2-py2.py3-none-any.whl.metadata (22 kB)
Collecting six==1.17.0 (from -r D:\\Azzam\\Personal_Projects\\SDA\\env_lab\\test\\venv\\condaenv.v5j3apum.requirements.txt (line 5))
  Downloading six-1.17.0-py2.py3-none-any.whl.metadata (1.7 kB)
Collecting tzdata==2025.2 (from -r D:\\Azzam\\Personal_Projects\\SDA\\env_lab\\test\\venv\\condaenv.v5j3apum.requirements.txt (line 6))
  Downloading tzdata-2025.2-py2.py3-none-any.whl.metadata (1.4 kB)
```

Conclusion

- Learned how to share and update environment requirements using YAML files.
- Successfully ran different projects with their own environments, ensuring proper functionality across setups.