# AISC2013 - Deployment of AI Solutions

# FINAL EXAM SPECIFICATIONS

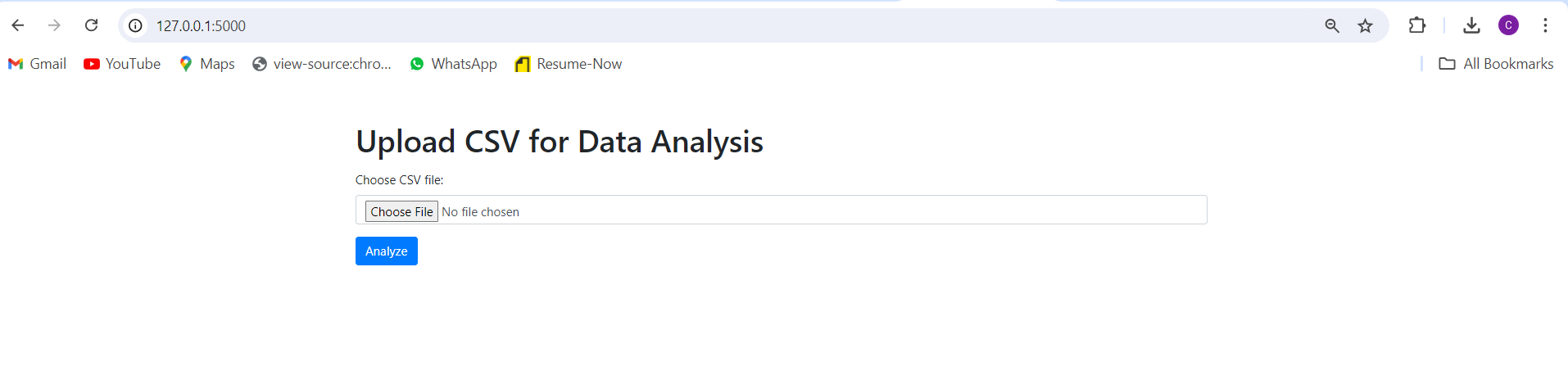
**Assignment Guidelines:** Application Development with Version Control and Docker

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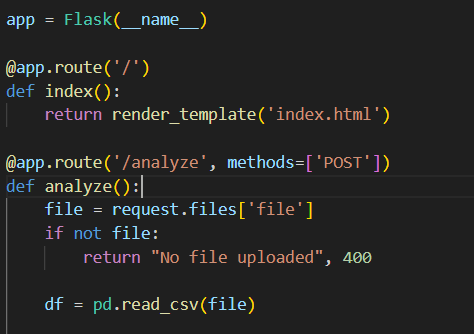
**Python Application:**

* **Upload Data**

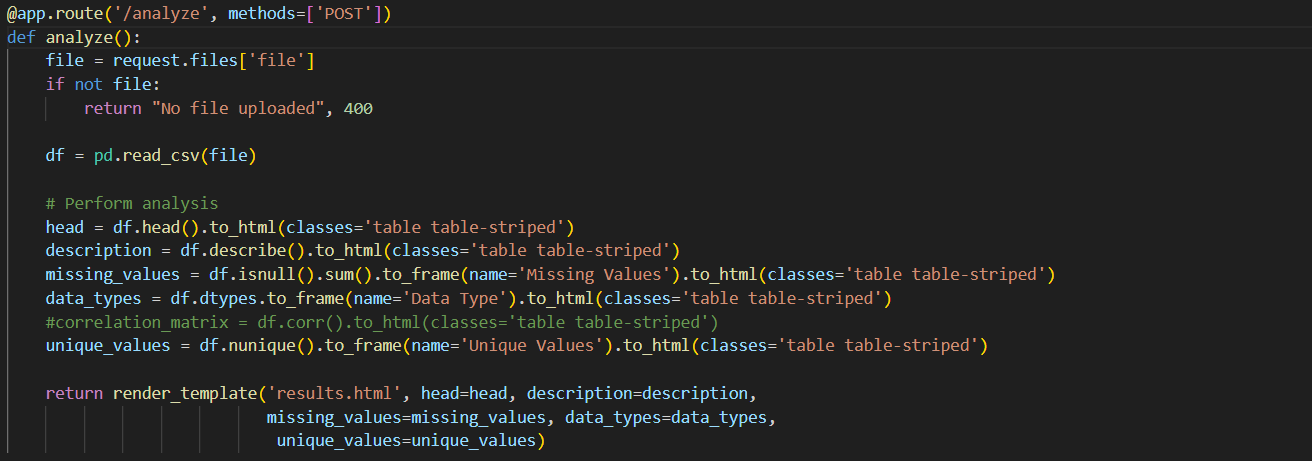
Upload data using flask app UI,



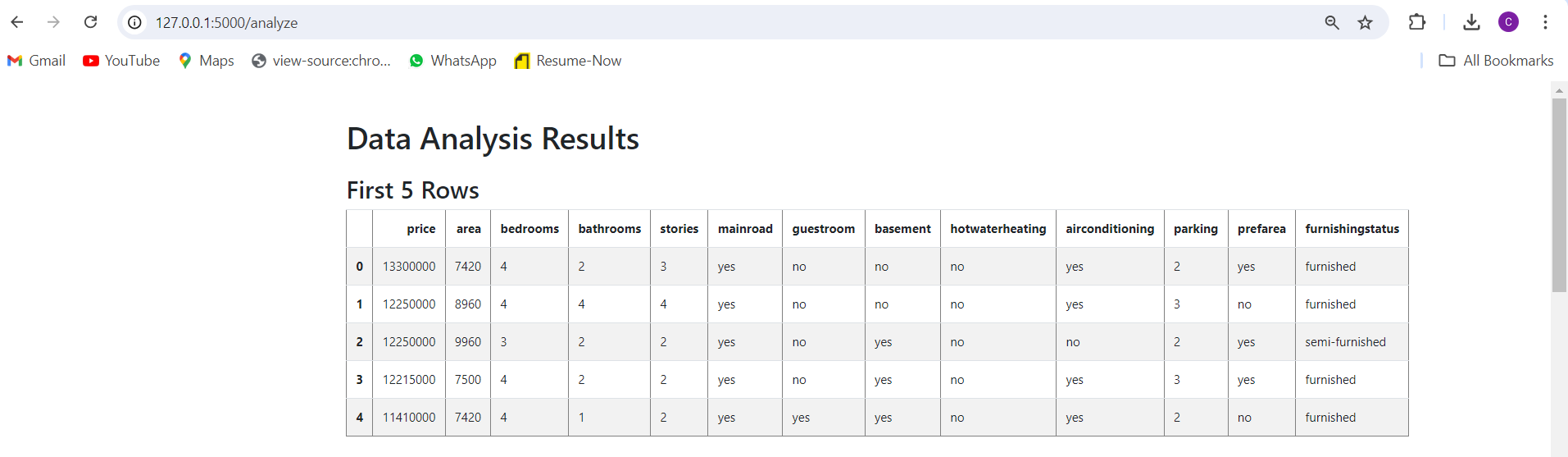
* Flask render the html page to GET the file upload

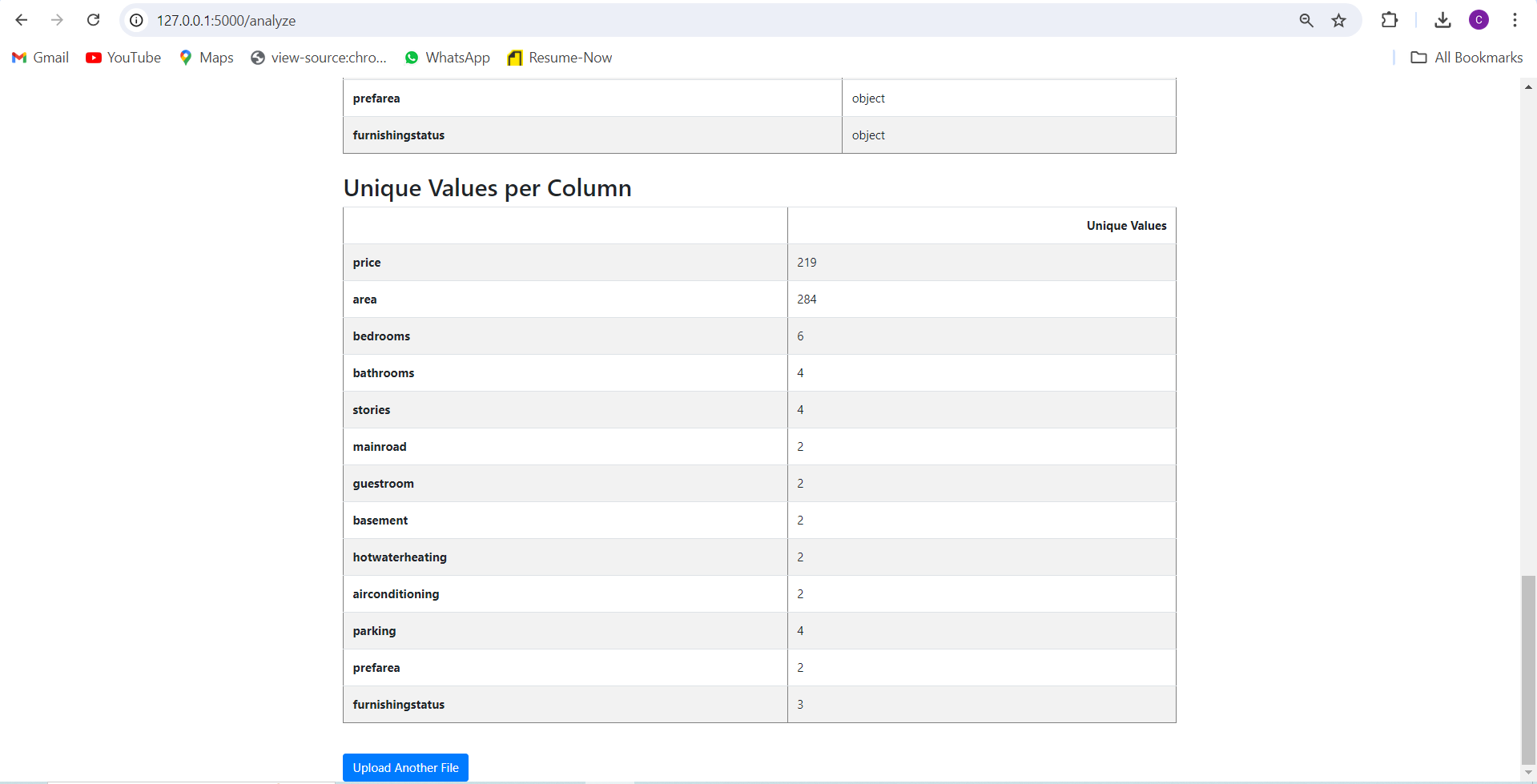


* Analysis of the data uploaded



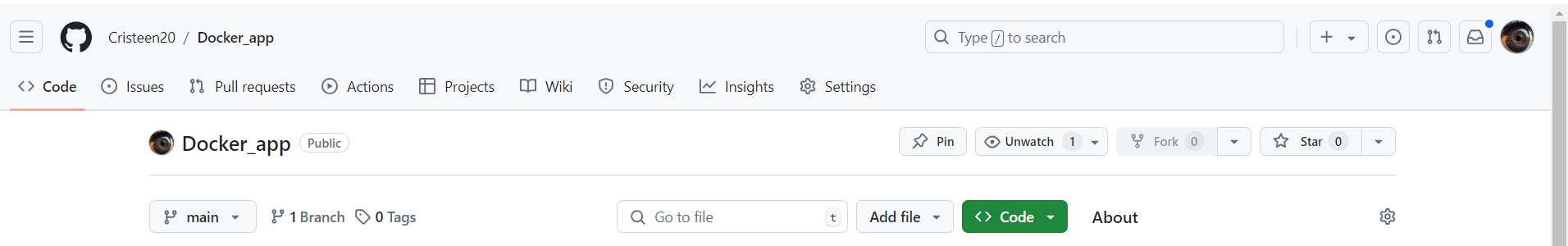
* Results return in Application



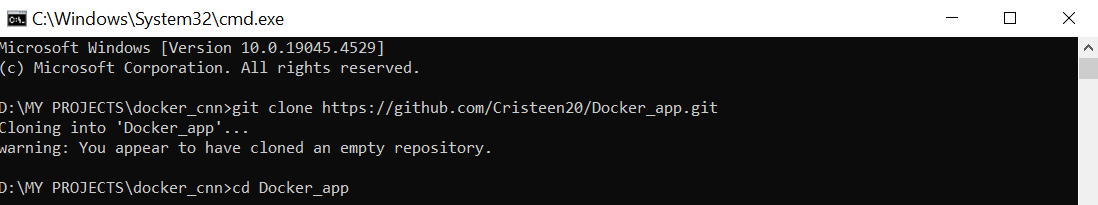


**Version Control**

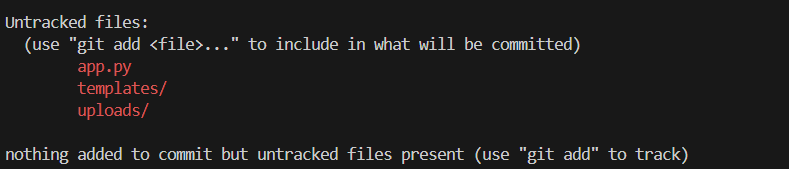
* Create a Repo



* Clone the repository



* Add the Application files into the repo folder
  + **Git status**

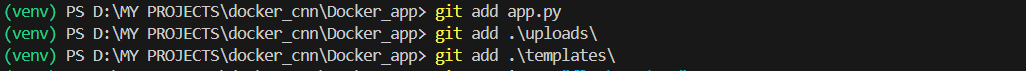


The files in red are the files which is not present in the remote repo.

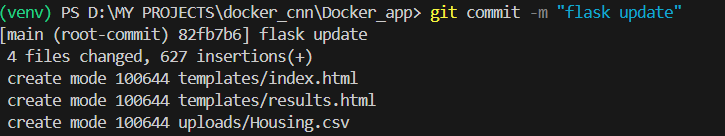
* + Create git branch

**Git checkout -b dev**

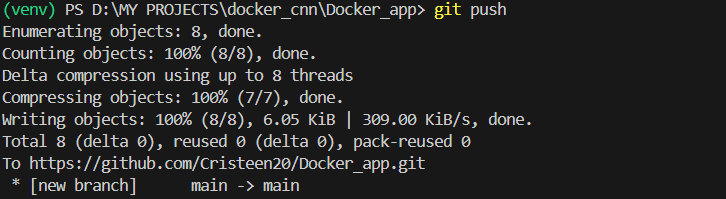
* + **Git add .**

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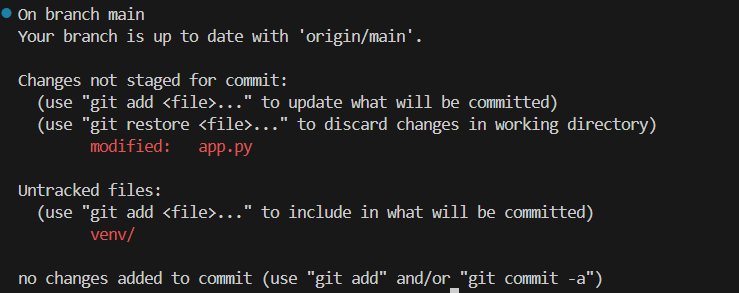
* + **Git commit -m “commit message”**

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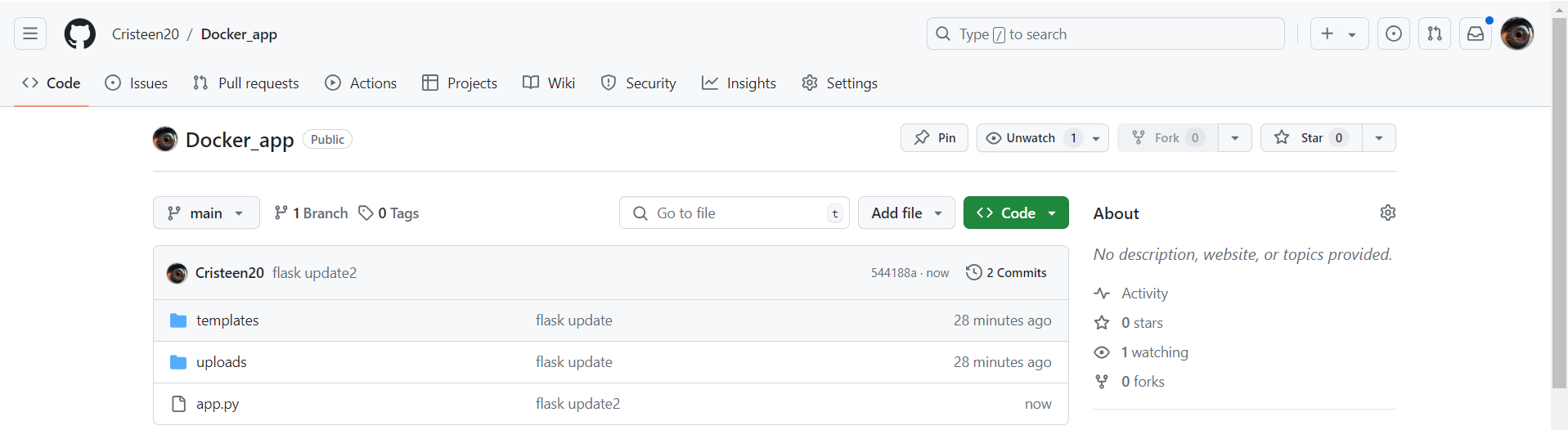
* + **Git push**

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* **Upon any change in files -**  the files changed will appear red

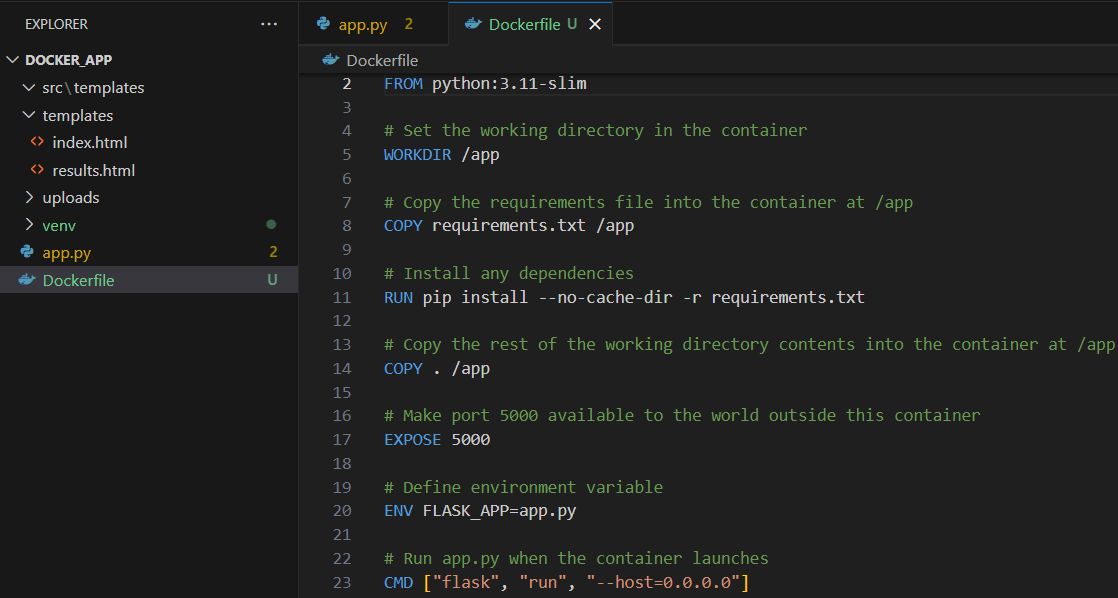
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* Performing the same steps allows saving of the new change in a new commit.
* Each files will have the commit messages with which those were changed.



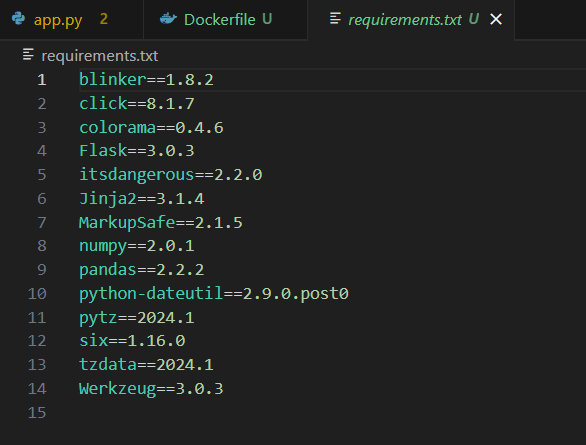
**Docker Containerization**

* Docker Container
  + Create **Dockerfile** for the project



* + Create requirements.txt from the virtual environment
    - pip freeze > requirements.txt





* + Build **docker image**
    - docker build -t my-flask-app .