

Group Member's Name:-

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In Main.py file we remove the logs that were saving in the txt ,Config the Environment and change the Todo_File_Name address.

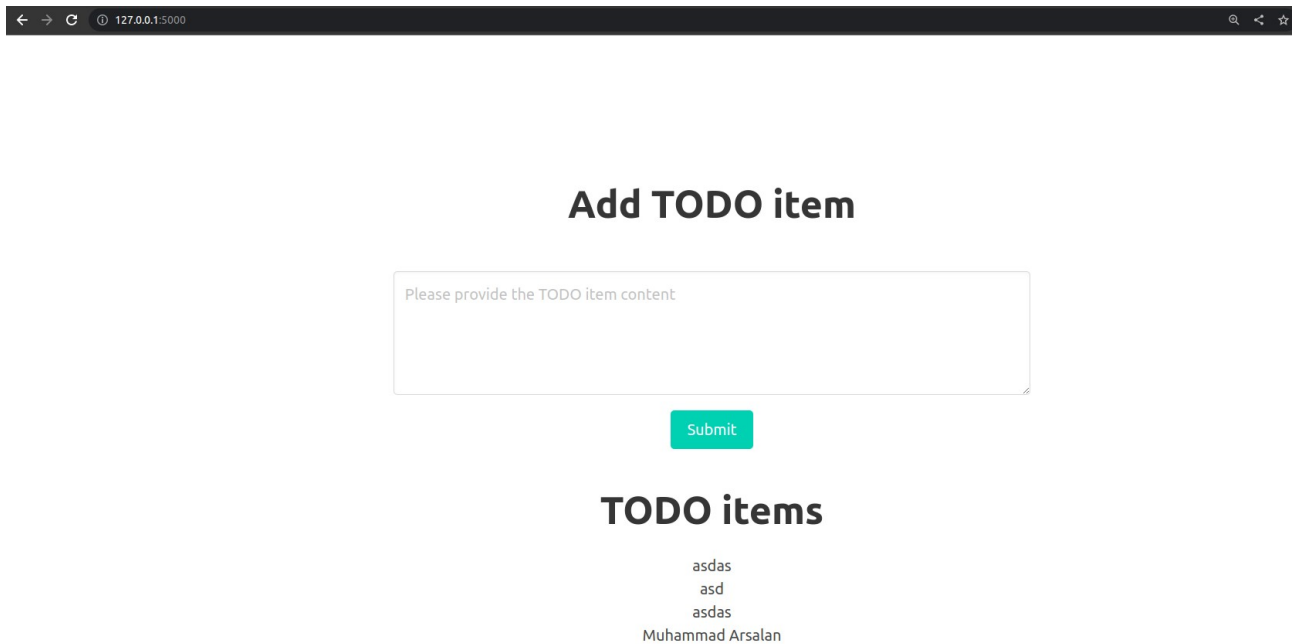
```
app_that_doesnt_follow_best_practices > main.py > ...
1  import json
2  import logging
3  import threading
4  import time
5  import os
6  import sys
7
8  from flask import Flask, render_template, request
9
10 app = Flask(__name__)
11 app.debug = True
12
13 logging.basicConfig(
14     stream=sys.stdout,
15     level=logging.INFO,
16     format="%(asctime)s,%(msecs)d %(name)s %(levelname)s %(message)s",
17     datefmt="%H:%M:%S",
18 )
19
20 TODO_FILE_NAME = "/app/data/todo.json"
21 if os.path.exists(TODO_FILE_NAME):
22     with open(TODO_FILE_NAME) as f:
23         TODO_ITEMS = json.load(f)
24 else:
25     TODO_ITEMS = []
26
27
28 def periodically_save_todo_items():
29     time.sleep(10)
30     with open(TODO_FILE_NAME, "w") as f:
31         json.dump(TODO_ITEMS, f)
32
33
34 saving_thread = threading.Thread(target=periodically_save_todo_items)
35 saving_thread.start()
36
37
38 @app.route("/", methods=["GET", "POST"])
39 def main():
40     if request.method == "POST":
41         content = request.form["content"]
42         TODO_ITEMS.append(content)
43
44     return render_template("index.html", todo_items=TODO_ITEMS)
45
46 if __name__ == "__main__":
47     if os.environ.get("DEBUG") == "true":
48         app.debug = True
49         os.environ["FLASK_ENV"] = "development"
50     else:
51         os.environ["FLASK_ENV"] = "production"
52
53     app.run(host="0.0.0.0")
```

Create an Docker-Compose.yaml file in that file we create an volume to persist the data and set the ports etc.

```
app_that_doesnt_follow_best_practices > 🐳 docker-compose.yaml
```

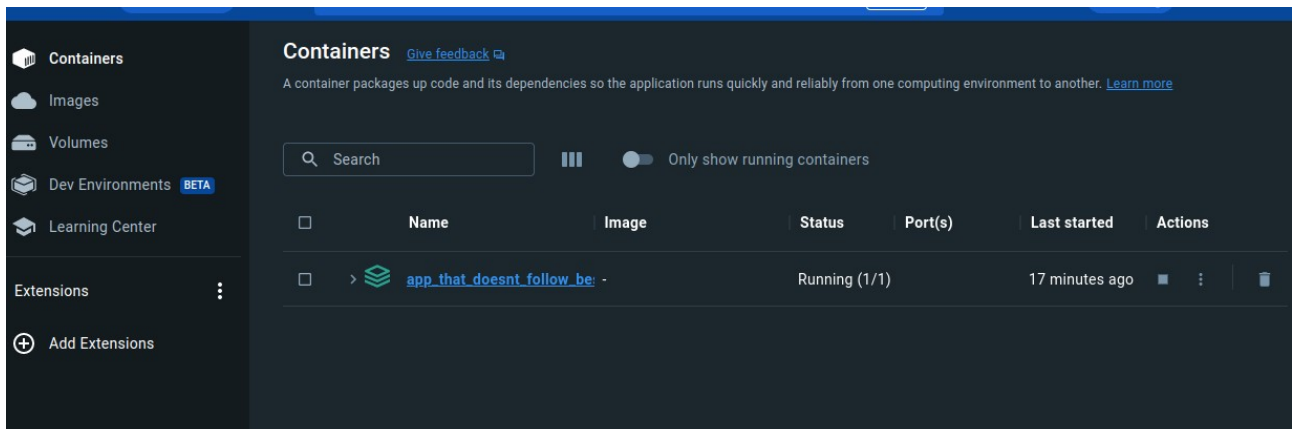
```
1  version: '3'
2
3  services:
4    app:
5      build: .
6      ports:
7        - "5000:5000"
8      volumes:
9        - todo:/app/todo
10     environment:
11       - FLASK_ENV=development
12       - FLASK_APP=main.py
13       - FLASK_DEBUG=1
14     command: flask run --host=0.0.0.0
15
16  volumes:
17    todo:
18
```

Open todo and add the data in it.

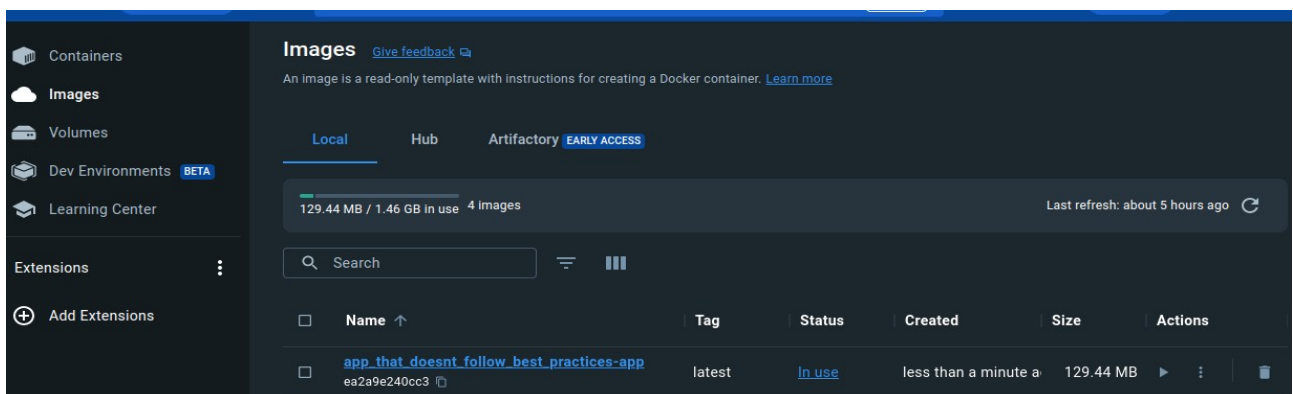


The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5000". The main content area has a heading "Add TODO item". Below it is a text input field with the placeholder text "Please provide the TODO item content". A green "Submit" button is positioned below the input field. Underneath the button is a heading "TODO items". Below this heading is a list of items: "asdas", "asd", "asdas", and "Muhammad Arsalan".

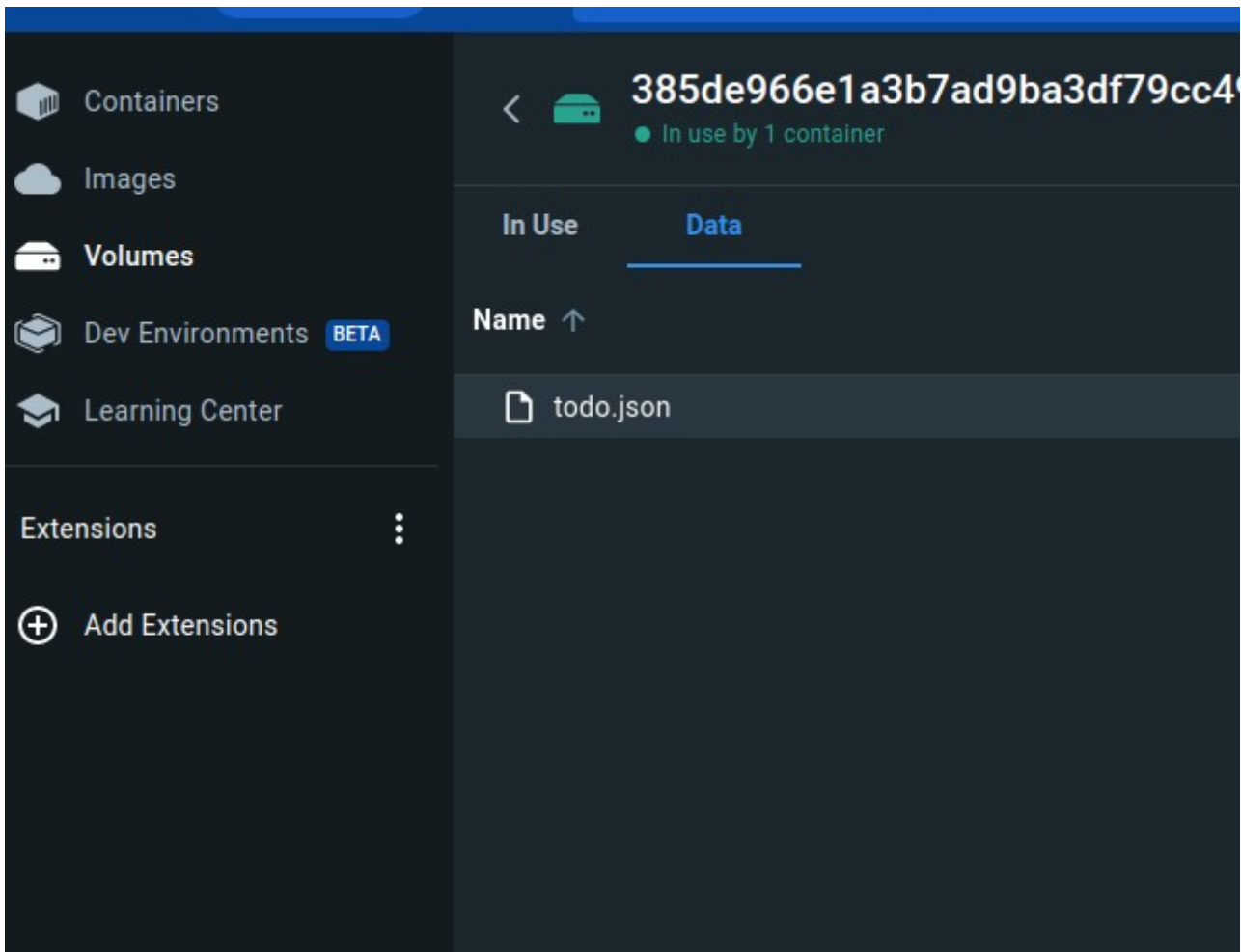
Then open Docker Desktop and see the Container in it.



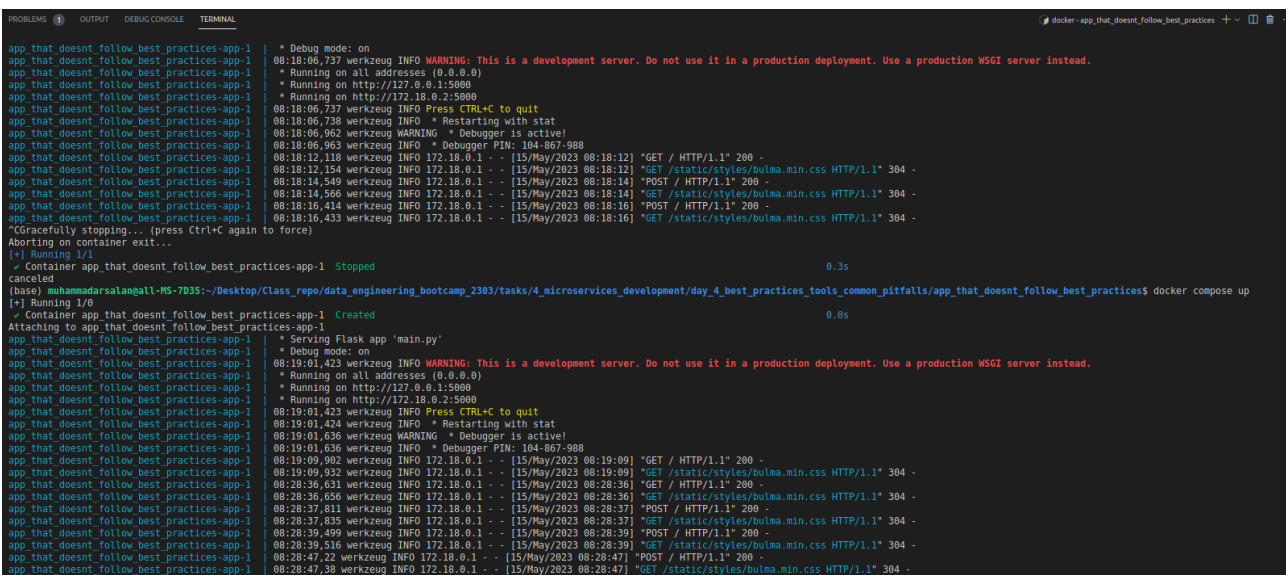
Then click the Image and see the Image.



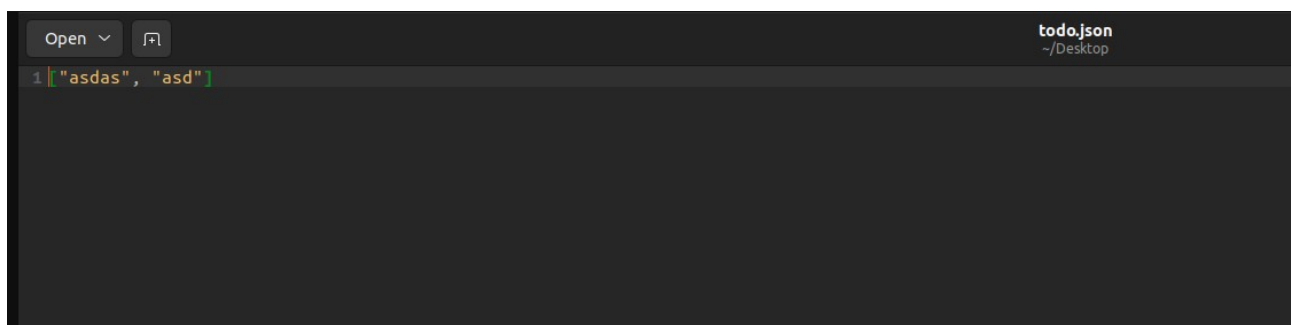
Then click the volumes and see the todo.json file in Data section.



Here we can see the logs in terminals.



And here the Json file where we can see the data.



The image shows a screenshot of a code editor interface. At the top, there is a dark header bar. On the left side of the header, there is a button labeled 'Open' with a downward arrow, and next to it is a small icon of a document with a plus sign. On the right side of the header, the text 'todo.json' is displayed in a light color, with '~ / Desktop' written below it in a smaller font. Below the header, the main area of the editor is dark. The first line of code is visible, starting with a line number '1' in a light color, followed by a green opening square bracket '[', then the string '"asdas"' in yellow, a comma, a space, another yellow string '"asd"', and finally a green closing square bracket ']'. The rest of the editor area is empty.

```
1 [ "asdas", "asd" ]
```