

Usman Institute of Technology Department of Computer Science Fall 2022

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Course: <u>Software Design and Architecture (SE-308)</u>

Course Instructor: Misbah ud Din

Date: <u>22-Dec-2022</u>

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Home Task:

Code:

```
from flask import Flask
from flask_restful import Api,Resource,reqparse,abort
app = Flask(__name__)
API = Api(app)
student_put = reqparse.RequestParser()
student_put.add_argument("Name",type=str,location="form")
student_put.add_argument("Rollno", type=str, location="form")
students = {
    1:{"name":"bajwa","rollno":"20b-017-se"},
    2:{"name":"aun","rollno":"20b-118-se"},
    3:{"name":"farhan","rollno":"20b-055-se"}
def notFound(studen_id):
    if studen_id not in students:
        abort(404, message="Student not found")
class Student(Resource):
    def get(self,id):
        notFound(id)
        return students[id]
    def put(self,id):
        newStd = student_put.parse_args()
        students[id] = newStd
        return students[id]
    def post(self,id):
        newStd = student_put.parse_args()
        newid = int(max(students.keys()))+1
        students[newid] = newStd
        print(students)
        return students[newid]
    def delete(self,id):
       del students[id]
```

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```
API.add_resource(Student,"/show/<int:id>")

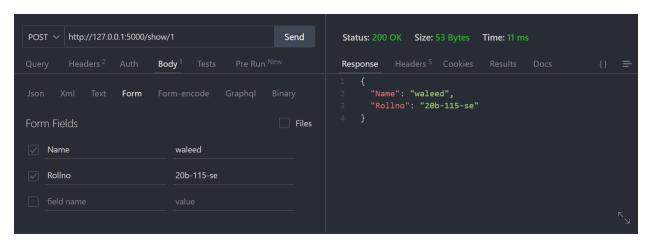
if __name__ == "__main__":
    app.run(debug=True)
```

Output:

GET:



POST

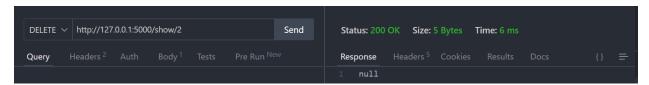


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PUT:



DELETE:



Terminal:

```
127.0.0.1 - - [23/Dec/2022 16:26:16] "GET /show/1 HTTP/1.1" 200 - 127.0.0.1 - - [23/Dec/2022 16:33:31] "POST /show/1 HTTP/1.1" 200 - 127.0.0.1 - - [23/Dec/2022 16:35:53] "PUT /show/5 HTTP/1.1" 200 - 127.0.0.1 - - [23/Dec/2022 16:36:29] "DELETE /show/2 HTTP/1.1" 200 -
```