

LAB: 07

```
from flask import Flask
from flask_restful import Api, Resource, reqparse, abort

app = Flask(__name__)
api = Api(app)

std_put = reqparse.RequestParser()
std_put.add_argument("Name", type=str)
std_put.add_argument("Rollno", type=str)

students = {1 : {"Name" : "Akram", "Rollno" : "18B-030-SE"},
            2 : {"Name" : "Agha", "Rollno" : "18B-080-SE"},
            3 : {"Name" : "Muqarib", "Rollno" : "18B-081-SE"},
            4 : {"Name" : "Mansoor", "Rollno" : "18B-040-SE"},
            5 : {"Name" : "Azeem", "Rollno" : "18B-029-SE"},
            }

def notFound(std_id):
    if std_id not in students:
        abort(404, message="Student id not found!")

class std(Resource):
    def get(self, std_id):
        notFound(std_id)
        return students[std_id]

    def put(self, std_id):
        newStd = std_put.parse_args()
        students[std_id] = newStd
        return students[std_id]

    def delete(self, std_id):
        del students[std_id]
        return '', 204

api.add_resource(std, "/show/<int:std_id>") # represent route
if __name__ == '__main__':
    app.run(debug=True)
```

METHOD (GET):

http://127.0.0.1:5000/show/1

GET http://127.0.0.1:5000/show/1

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (4) Test Results Status: 200 OK Time: 10 ms Size: 196 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "Name": "Saad",
3   "Rollno": "18B-025-SE"
4 }
```

METHOD (PUT):

http://127.0.0.1:5000/show/1?Name=Saad Ali&Rollno=18B-025-SE

PUT http://127.0.0.1:5000/show/1?Name=Saad Ali&Rollno=18B-025-SE

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> Name	Saad Ali			
<input checked="" type="checkbox"/> Rollno	18B-025-SE			
Key	Value	Description		

Body Cookies Headers (4) Test Results Status: 200 OK Time: 11 ms Size: 200 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "Name": "Saad Ali",
3   "Rollno": "18B-025-SE"
4 }
```

METHOD (DELETE):

http://127.0.0.1:5000/show/1?Name=Saad Ali&Rollno=18B-025-SE

DELETE

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/>	Name	Saad Ali			
<input checked="" type="checkbox"/>	Rollno	18B-025-SE			
	Key	Value	Description		

Body Cookies Headers (3) Test Results Status: 204 NO CONTENT Time: 8 ms Size: 133 B Save Response

Pretty Raw Preview Visualize JSON

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SERVER RESPONSE:

```
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with stat
* Debugger is active!
* Debugger PIN: 275-956-227
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [06/Feb/2021 21:49:18] "GET / HTTP/1.1" 404 -
127.0.0.1 - - [06/Feb/2021 21:49:18] "GET /favicon.ico HTTP/1.1" 404 -
127.0.0.1 - - [06/Feb/2021 21:49:22] "GET /show HTTP/1.1" 404 -
127.0.0.1 - - [06/Feb/2021 21:49:26] "GET /show/1 HTTP/1.1" 200 -
127.0.0.1 - - [06/Feb/2021 21:57:53] "GET / HTTP/1.1" 404 -
127.0.0.1 - - [06/Feb/2021 21:58:00] "GET /show/1 HTTP/1.1" 200 -
127.0.0.1 - - [06/Feb/2021 21:58:12] "GET /show/1 HTTP/1.1" 200 -
127.0.0.1 - - [06/Feb/2021 21:59:25] "GET /show/3 HTTP/1.1" 200 -
* Detected change in 'C:\\Users\\Saad\\Downloads\\index.py', reloading
* Restarting with stat
* Debugger is active!
* Debugger PIN: 275-956-227
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [06/Feb/2021 22:01:58] "GET / HTTP/1.1" 404 -
127.0.0.1 - - [06/Feb/2021 22:02:10] "GET /show/4 HTTP/1.1" 200 -
127.0.0.1 - - [06/Feb/2021 22:02:15] "GET /show/1 HTTP/1.1" 200 -
127.0.0.1 - - [06/Feb/2021 22:13:18] "PUT /show/1?Name=Saad%20Ali&Rollno=18B-025-SE HTTP/1.1" 200 -
127.0.0.1 - - [06/Feb/2021 22:16:09] "DELETE /show/1?Name=Saad%20Ali&Rollno=18B-025-SE HTTP/1.1" 204 -
```