

# SCREENSHOTS

```
app.py
1  from flask import Flask, request, jsonify
2
3  app = Flask(__name__)
4
5  users = [
6      {"id": 1, "name": "KUNDAN", "email": "vangapandukundan@example.com", "age": 19},
7      {"id": 2, "name": "SAI", "email": "sai@example.com", "age": 20},
8      {"id": 3, "name": "RAM GOPAL VARMA", "email": "Rangopalvarma@example.com", "age": 21}
9  ]
10
11 def find_user(user_id):
12     for user in users:
13         if user["id"] == user_id:
14             return user
15     return None
16
17 @app.route('/users', methods=['GET'])
18 def get_users():
19     return jsonify(users), 200
20
21 @app.route('/users/<int:user_id>', methods=['GET'])
22 def get_user(user_id):
23     user = find_user(user_id)
24     if user:
25         return jsonify(user), 200
26     return jsonify({"error": "User not found"}), 404
27
28 @app.route('/users', methods=['POST'])
29 def create_user():
30     data = request.get_json()
31
32     if not data or 'name' not in data or 'email' not in data or 'age' not in data:
33         return jsonify({"error": "Missing fields"}), 400
34
35     new_id = max([u["id"] for u in users]) + 1 if users else 1
36     new_user = {
37         "id": new_id,
38         "name": data["name"],
39         "email": data["email"],
40         "age": data["age"]
41     }
42     users.append(new_user)
43     return jsonify(new_user), 201
44
45 @app.route('/users/<int:user_id>', methods=['PUT'])
46 def update_user(user_id):
47     user = find_user(user_id)
48     if not user:
49         return jsonify({"error": "User not found"}), 404
50
51     data = request.get_json()
52     if 'name' in data:
53         user['name'] = data['name']
54     if 'email' in data:
55         user['email'] = data['email']
56     if 'age' in data:
57         user['age'] = data['age']
58
59     return jsonify(user), 200
60
61 @app.route('/users/<int:user_id>', methods=['DELETE'])
62 def delete_user(user_id):
63     user = find_user(user_id)
64     if not user:
65         return jsonify({"error": "User not found"}), 404
66
67     users.remove(user)
68     return jsonify({"message": "User deleted"}), 200
69
70 if __name__ == '__main__':
71     app.run(debug=True)
```

```
app.py
1  from flask import Flask, request, jsonify
2
3  app = Flask(__name__)
4
5  users = [
6      {"id": 1, "name": "KUNDAN", "email": "vangapandukundan@example.com", "age": 19},
7      {"id": 2, "name": "SAI", "email": "sai@example.com", "age": 20},
8      {"id": 3, "name": "RAM GOPAL VARMA", "email": "Rangopalvarma@example.com", "age": 21}
9  ]
10
11 def find_user(user_id):
12     for user in users:
13         if user["id"] == user_id:
14             return user
15     return None
16
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23     user = find_user(user_id)
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25         return jsonify(user), 200
26     return jsonify({"error": "User not found"}), 404
27
28 @app.route('/users', methods=['POST'])
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32     if not data or 'name' not in data or 'email' not in data or 'age' not in data:
33         return jsonify({"error": "Missing fields"}), 400
34
35     new_id = max([u["id"] for u in users]) + 1 if users else 1
36     new_user = {
37         "id": new_id,
38         "name": data["name"],
39         "email": data["email"],
40         "age": data["age"]
41     }
42     users.append(new_user)
43     return jsonify(new_user), 201
44
45 @app.route('/users/<int:user_id>', methods=['PUT'])
46 def update_user(user_id):
47     user = find_user(user_id)
48     if not user:
49         return jsonify({"error": "User not found"}), 404
50
51     data = request.get_json()
52     if 'name' in data:
53         user['name'] = data['name']
54     if 'email' in data:
55         user['email'] = data['email']
56     if 'age' in data:
57         user['age'] = data['age']
58
59     return jsonify(user), 200
60
61 @app.route('/users/<int:user_id>', methods=['DELETE'])
62 def delete_user(user_id):
63     user = find_user(user_id)
64     if not user:
65         return jsonify({"error": "User not found"}), 404
66
67     users.remove(user)
68     return jsonify({"message": "User deleted"}), 200
69
70 if __name__ == '__main__':
71     app.run(debug=True)
```

# TERMINAL 1

```
File Edit Selection View Go Run Terminal Help ← → Q flask_user_api
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS + pyth... powershell
PS C:\Users\kunda\OneDrive\Desktop\flask_user_api> pip install flask
Requirement already satisfied: flask in c:\users\kunda\appdata\local\programs\python\python313\lib\site-packages (3.1.1)
Requirement already satisfied: blinker<1.9.0 in c:\users\kunda\appdata\local\programs\python\python313\lib\site-packages (from flask) (1.9.0)
Requirement already satisfied: click<8.1.3 in c:\users\kunda\appdata\local\programs\python\python313\lib\site-packages (from flask) (8.2.1)
Requirement already satisfied: itsdangerous<2.2.0 in c:\users\kunda\appdata\local\programs\python\python313\lib\site-packages (from flask) (2.2.0)
Requirement already satisfied: jinja2<3.1.2 in c:\users\kunda\appdata\local\programs\python\python313\lib\site-packages (from flask) (3.1.6)
Requirement already satisfied: markupsafe<2.1.1 in c:\users\kunda\appdata\local\programs\python\python313\lib\site-packages (from flask) (3.0.2)
Requirement already satisfied: werkzeug<3.1.0 in c:\users\kunda\appdata\local\programs\python\python313\lib\site-packages (from flask) (3.1.3)
Requirement already satisfied: colorama in c:\users\kunda\appdata\local\programs\python\python313\lib\site-packages (from click<8.1.3->flask) (0.4.6)
PS C:\Users\kunda\OneDrive\Desktop\flask_user_api> python app.py
* Serving Flask app 'app'
* Debug mode: on
PS C:\Users\kunda\OneDrive\Desktop\flask_user_api> pip install flask
Requirement already satisfied: flask in c:\users\kunda\appdata\local\programs\python\python313\lib\site-packages (3.1.1)
Requirement already satisfied: blinker<1.9.0 in c:\users\kunda\appdata\local\programs\python\python313\lib\site-packages (from flask) (1.9.0)
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Requirement already satisfied: colorama in c:\users\kunda\appdata\local\programs\python\python313\lib\site-packages (from click<8.1.3->flask) (0.4.6)
PS C:\Users\kunda\OneDrive\Desktop\flask_user_api> python app.py
* Serving Flask app 'app'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
Requirement already satisfied: click<8.1.3 in c:\users\kunda\appdata\local\programs\python\python313\lib\site-packages (from flask) (8.2.1)
Requirement already satisfied: itsdangerous<2.2.0 in c:\users\kunda\appdata\local\programs\python\python313\lib\site-packages (from flask) (2.2.0)
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PS C:\Users\kunda\OneDrive\Desktop\flask_user_api> python app.py
* Serving Flask app 'app'
* Debug mode: on
2.0)
Requirement already satisfied: jinja2<3.1.2 in c:\users\kunda\appdata\local\programs\python\python313\lib\site-packages (from flask) (3.1.6)
Requirement already satisfied: markupsafe<2.1.1 in c:\users\kunda\appdata\local\programs\python\python313\lib\site-packages (from flask) (3.0.2)
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PS C:\Users\kunda\OneDrive\Desktop\flask_user_api> python app.py
* Serving Flask app 'app'
* Debug mode: on
Requirement already satisfied: markupsafe<2.1.1 in c:\users\kunda\appdata\local\programs\python\python313\lib\site-packages (from flask) (3.0.2)
Ln 12 Col 32 Spaces: 4 UTF-8 CRLF {} Python 🐍 Python 3.13 (64-bit) ⓘ Go Live ⚙️ Prettier
Launchpad ⚙️ 0 / 0
```

```
PS C:\Users\kunda\OneDrive\Desktop\flask_user_api> python app.py
 * Serving Flask app 'app'
 * Debug mode: on
 * Serving Flask app 'app'
 * Debug mode: on
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
  * Restarting with stat
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
  * Restarting with stat
  * Debugger is active!
  * Debugger PIN: 361-476-321
Press CTRL+C to quit
  * Restarting with stat
  * Debugger is active!
  * Debugger PIN: 361-476-321
127.0.0.1 - - [21/Nov/2025 10:07:30] "GET /users HTTP/1.1" 200 -
127.0.0.1 - - [21/Nov/2025 10:07:34] "GET /users/1 HTTP/1.1" 200 -
  * Restarting with stat
  * Debugger is active!
  * Debugger PIN: 361-476-321
127.0.0.1 - - [21/Nov/2025 10:07:38] "GET /users HTTP/1.1" 200 -
127.0.0.1 - - [21/Nov/2025 10:07:34] "GET /users/1 HTTP/1.1" 200 -
127.0.0.1 - - [21/Nov/2025 10:07:58] "POST /users HTTP/1.1" 201 -
  * Debugger is active!
  * Debugger PIN: 361-476-321
127.0.0.1 - - [21/Nov/2025 10:07:30] "GET /users HTTP/1.1" 200 -
127.0.0.1 - - [21/Nov/2025 10:07:34] "POST /users HTTP/1.1" 201 -
127.0.0.1 - - [21/Nov/2025 10:07:30] "GET /users/1 HTTP/1.1" 200 -
127.0.0.1 - - [21/Nov/2025 10:07:34] "GET /users/1 HTTP/1.1" 200 -
127.0.0.1 - - [21/Nov/2025 10:07:58] "POST /users HTTP/1.1" 201 -
127.0.0.1 - - [21/Nov/2025 10:08:11] "PUT /users/1 HTTP/1.1" 200 -
127.0.0.1 - - [21/Nov/2025 10:07:58] "POST /users HTTP/1.1" 201 -
127.0.0.1 - - [21/Nov/2025 10:08:11] "PUT /users/1 HTTP/1.1" 200 -
127.0.0.1 - - [21/Nov/2025 10:08:11] "PUT /users/1 HTTP/1.1" 200 -
127.0.0.1 - - [21/Nov/2025 10:08:17] "DELETE /users/3 HTTP/1.1" 200 -
127.0.0.1 - - [21/Nov/2025 10:08:46] "GET /users HTTP/1.1" 200 -
```

# TERMINAL 2

File Edit Selection View Go Run Terminal Help ← →

flask\_user\_api

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\users\kunda\OneDrive\Desktop\Flask\_user\_api> curl http://localhost:5000/users

```
statusCode : 200
statusDescription : OK
Content : [
    {
        "age": 19,
        "email": "vangapandukundan@example.com",
        "id": 1,
        "name": "KUNDAN"
    },
    {
        "age": 20,
        "email": "sai@example.com",
        "id": 2,
        "name": "SAI"
    }
]
RawContent : HTTP/1.1 200 OK
Connection: close
Content-Length: 302
Content-Type: application/json
Date: Fri, 21 Nov 2025 04:37:30 GMT
Server: Werkzeug/3.1.3 Python/3.13.3

[
    {
        "age": 19,
        "email": ...
    }
]
Forms : {}
Headers : [{Connection, close}, [Content-Length, 302], [Content-Type, application/json], [Date, Fri, 21 Nov 2025 04:37:30 GMT]...]
Images : {}
InputFields : {}
Links : {}
ParsedHTML : mshtml.HTMLDocumentClass
RawContentLength : 302
```

PS C:\users\kunda\OneDrive\Desktop\Flask\_user\_api> curl http://localhost:5000/users/1

Ln 12, Col 23 Spaces: 4 UTF-8 CRLF () Python 🐍 Python 3.13 (64-bit) ⓘ Go Live ⏪ Prettier ⏪

```
PS C:\Users\kunda\OneDrive\Desktop\flask_user_api> curl http://localhost:5000/users/1

StatusCode : 200
StatusDescription : OK
Content : {
    "age": 19,
    "email": "vangapandukundan@example.com",
    "id": 1,
    "name": "KUNDAN"
}

RawContent : HTTP/1.1 200 OK
Connection: close
Content-Length: 90
Content-Type: application/json
Date: Fri, 21 Nov 2025 04:37:34 GMT
Server: Werkzeug/3.1.3 Python/3.11.3

{
    "age": 19,
    "email": "vangan...
Forms : {}
Headers : [(Connection, close), (Content-Length, 90), (Content-Type, application/json), (Date, Fri, 21 Nov 2025 04:37:34 GMT)...]
Images : {}
InputFields : {}
Links : {}
ParsedHTML : mshtml.HTMLDocumentClass
RawContentLength : 90
```

The screenshot shows a Microsoft Edge browser window with the following details:

- Address Bar:** flask\_user\_api
- Terminal Tab:** PS C:\Users\kunda\OneDrive\Desktop\Flask user api> curl -Method POST "http://localhost:5000/users" -H "Content-Type" = "application/json" -d '{"name": "Marshith", "email": "marshith@example.com", "age": 22}'
- Output Area:**

```
Statuscode      : 201
Statusdescription: CREATED
Content         : [
    {
        "age": 22,
        "email": "marshith@example.com",
        "id": 4,
        "name": "Marshith"
    }
]

RawContent     : HTTP/1.1 201 CREATED
Connection: close
Content-Length: 84
Content-Type: application/json
Date: Fri, 21 Nov 2025 04:37:58 GMT
Server: Werkzeug/3.1.3 Python/3.13.3

{
    "age": 22,
    "email": "har...
```
- Sidebar:** PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, PORTS
- Top Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help

```
File Edit Selection View Go Run Terminal Help ← → DEBUG CONSOLE TERMINAL PORTS
PROBLEMS OUTPUT flask_user_api
PS C:\Users\kunda\OneDrive\Desktop\flask_user_api> curl -Method PUT "http://localhost:5000/users/1"
>> -headers @{"Content-type" = "application/json"}
>> -Body '{"name": "KUNDAN UPDATED", "age":22}'

StatusCode : 200
StatusDescription : OK
Content : {
    "age": 22,
    "email": "vangapandukundan@example.com",
    "id": 1,
    "name": "KUNDAN UPDATED"
}

RawContent : HTTP/1.1 200 OK
Connection: close
Content-Length: 98
Content-Type: application/json
Date: Fri, 21 Nov 2025 04:38:11 GMT
Server: Werkzeug/3.1.3 Python/3.13.3

{
    "age": 22,
    "email": "vangapan...
Forms : {}
Headers : {([Connection, close], [Content-Length, 98], [Content-Type, application/json], [Date, Fri, 21 Nov 2025 04:38:11 GMT])...}
Images : {}
InputFields : {}
Links : {}
Parsedhtml : mshtml.HTMLDocumentClass
RawContentLength : 98
```

```
File Edit Selection View Go Run Terminal Help ← → DEBUG CONSOLE TERMINAL PORTS
PROBLEMS OUTPUT flask_user_api
PS C:\Users\kunda\OneDrive\Desktop\flask_user_api> curl -Method DELETE "http://localhost:5000/users/3"
>>

StatusCode : 200
StatusDescription : OK
Content : {
    "message": "User deleted"
}

RawContent : HTTP/1.1 200 OK
Connection: close
Content-Length: 32
Content-Type: application/json
Date: Fri, 21 Nov 2025 04:38:17 GMT
Server: Werkzeug/3.1.3 Python/3.13.3

{
    "message": "User deleted"
}

StatusCode : 200
StatusDescription : OK
Content : {
    "message": "User deleted"
}

RawContent : HTTP/1.1 200 OK
Connection: close
Content-Length: 32
Content-Type: application/json
Date: Fri, 21 Nov 2025 04:38:17 GMT
Server: Werkzeug/3.1.3 Python/3.13.3

{
    "message": "User deleted"
    "message": "User deleted"
}

RawContent : HTTP/1.1 200 OK
Connection: close
Content-Length: 32
Content-Type: application/json
Date: Fri, 21 Nov 2025 04:38:17 GMT
```

The image displays two vertically stacked terminal windows from the Visual Studio Code (VS Code) interface.

**Top Terminal:**

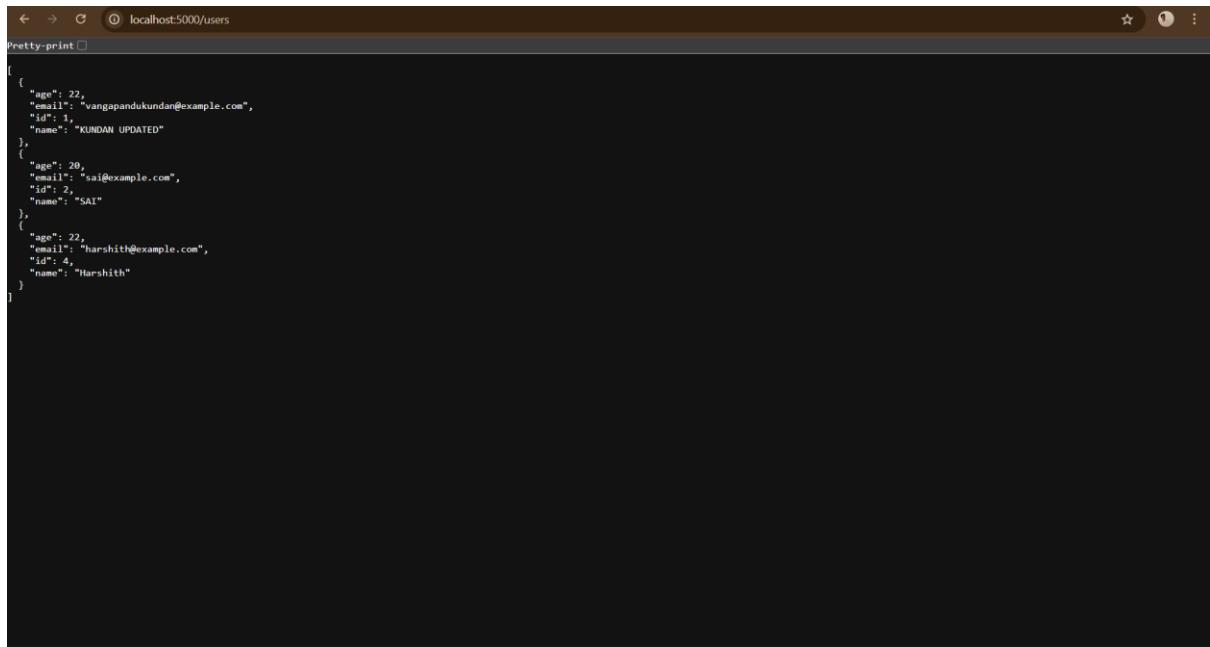
```
File Edit Selection View Go Run Terminal Help ⏪ ⏩
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Server: Werkzeug/3.1.3 Python/3.13.3
{
  "message": "User deleted"
}
RawContent : HTTP/1.1 200 OK
Connection: close
Content-Length: 32
Content-Type: application/json
Date: Fri, 21 Nov 2025 04:38:17 GMT
Server: Werkzeug/3.1.3 Python/3.13.3
{
  "message": "User deleted"
}
connection: close
Content-Length: 32
Content-Type: application/json
Date: Fri, 21 Nov 2025 04:38:17 GMT
Server: Werkzeug/3.1.3 Python/3.13.3
{
  "message": "User deleted"
}
Content-Length: 32
Content-Type: application/json
Date: Fri, 21 Nov 2025 04:38:17 GMT
Server: Werkzeug/3.1.3 Python/3.13.3
{
  "message": "User deleted"
}
Forms : {}
Ln 12, Col 23 Spaces: 4 UTF-8 CRLF () Python 🐍 Python 3.13 (64-bit) ⚡ Go Live ⚡ Prettier
```

**Bottom Terminal:**

```
File Edit Selection View Go Run Terminal Help ⏪ ⏩
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Forms : {}
Forms Headers : []
Forms Images : []
Forms Inputfields : []
Forms Links : []
Forms ParsedHTML : mshtml.HTMLDocumentClass
Forms RawContentLength : 32
Forms Images : []
Forms Inputfields : []
Forms Links : []
Forms ParsedHTML : mshtml.HTMLDocumentClass
Forms RawContentLength : 32
Forms Links : []
Forms ParsedHTML : mshtml.HTMLDocumentClass
Forms RawContentLength : 32
Forms RawContentLength : 32
PS C:\Users\kunda\OneDrive\Desktop\flask_user_api> []

Ln 12, Col 23 Spaces: 4 UTF-8 CRLF () Python 🐍 Python 3.13 (64-bit) ⚡ Go Live ⚡ Prettier
```

# OUTPUT



```
Pretty-print □
{
  {
    "age": 22,
    "email": "vangapandukundan@example.com",
    "id": 1,
    "name": "KUNDAN UPDATED"
  },
  {
    "age": 20,
    "email": "sai@example.com",
    "id": 2,
    "name": "SAI"
  },
  {
    "age": 22,
    "email": "harshith@example.com",
    "id": 4,
    "name": "Harshith"
  }
}
```