

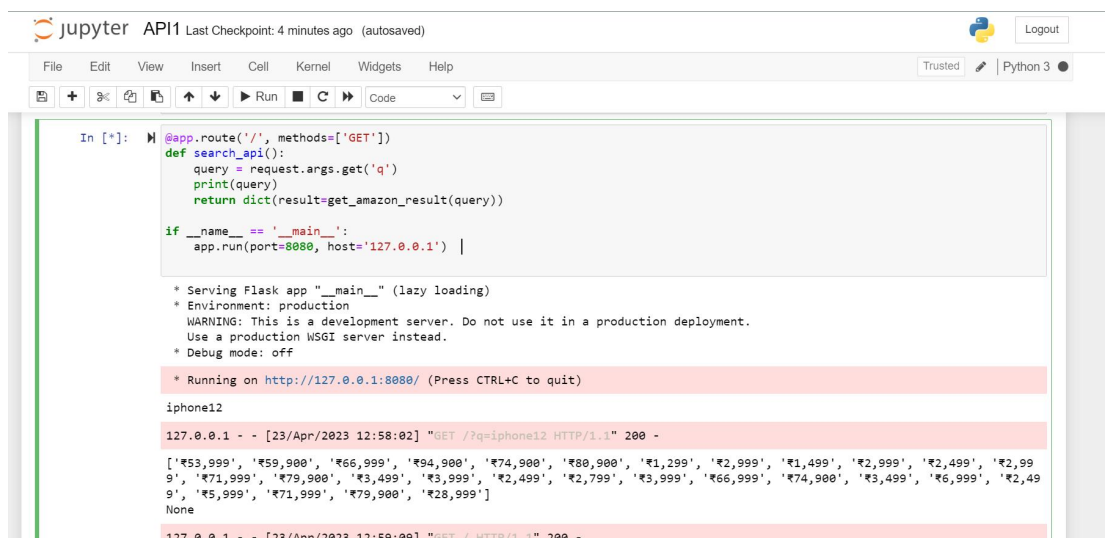
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## ● Step 2: Build the API

1. Here to build the API, Import flask, autoscraper and request library.
2. Then load the saved template file here which has been saved earlier for the searching process. The file given name is 'amazon\_search\_file'
3. Then write the function to get the desired results.
4. def \_aggregate\_result(result): function aggregate all the information obtained from searching the website and give the result in the proper format.
5. def get\_amazon\_result(search\_query): function send the query searched by the user. It based on the group in that search file, take out the particular information.
6. @app.route('/', methods=['GET']) gather the specific query which user want to search for.
7. def search\_api(): here searching query come out from this function which requested by the user and print it.
8. if \_\_name\_\_ == '\_\_main\_\_':

app.run(port=8080, host='127.0.0.1')

Here API will run on the host ip 127.0.0.1 (localhost) with port id 8080.



```
In [*]: @app.route('/', methods=['GET'])
def search_api():
    query = request.args.get('q')
    print(query)
    return dict(result=get_amazon_result(query))

if __name__ == '__main__':
    app.run(port=8080, host='127.0.0.1')
```

\* Serving Flask app "\_\_main\_\_" (lazy loading)  
\* Environment: production  
WARNING: This is a development server. Do not use it in a production deployment.  
Use a production WSGI server instead.  
\* Debug mode: off

\* Running on <http://127.0.0.1:8080/> (Press CTRL+C to quit)

iphone12

```
127.0.0.1 - - [23/Apr/2023 12:58:02] "GET /?q=iphone12 HTTP/1.1" 200 -
```

```
[{'₹53,999', '₹59,900', '₹66,999', '₹94,900', '₹74,900', '₹80,900', '₹1,299', '₹2,999', '₹1,499', '₹2,999', '₹2,499', '₹2,999', '₹71,999', '₹79,900', '₹3,499', '₹3,999', '₹2,499', '₹2,799', '₹3,999', '₹66,999', '₹74,900', '₹3,499', '₹6,999', '₹2,499', '₹5,999', '₹71,999', '₹79,900', '₹28,999'}]
```

```
None
```

```
127.0.0.1 - - [23/Apr/2023 12:59:09] "GET / HTTP/1.1" 200 -
```

When we pass an url with get request then it gives the result in JSON file format. In browser run the url. e.g. <http://127.0.0.1:8080/?q=iphone12>

```
127.0.0.1:8080/?q=iphone12

JSON  Raw Data  Headers

Save Copy Pretty Print

{"result":[{"Price":"\u20b9959,900","Title":"Apple iPhone 12 (128GB) - White"}, {"Price":"\u20b9970,900","Title":"Apple iPhone 12 (64GB) - (Product) RED"}, {"Price":"\u20b9953,999","Title":"Apple iPhone 12 (256GB) - Purple"}, {"Price":"\u20b9959,900","Title":"Apple iPhone 12 (256GB) - White"}, {"Price":"\u20b9966,999","Title":"Camera Privacy Covers Compatible for iPhone 12 Pro Max DNGN Slide Cover Protect Camera Lens, Hybrid TPU Bumper PC Case for iPhone12 Pro Max (Green)"}, {"Price":"\u20b9994,900","Title":"Samsung Galaxy M13 (Aqua Green, 4GB, 64GB Storage) | 6000mAh Battery | Upto 8GB RAM with RAM Plus"}, {"Price":"\u20b9974,900","Title":"Apple iPhone 14 (128 GB) - Blue"}, {"Price":"\u20b9980,900","Title":"Apple iPhone 14 (128 GB) - Midnight"}, {"Price":"\u20b9992,499","Title":"OnePlus Nord CE 2 Lite 5G (Black Dusk, 6GB RAM, 128GB Storage)"}, {"Price":"\u20b9992,999","Title":"OnePlus Nord 2T 5G (Jade Fog, 8GB RAM, 128GB Storage)"}, {"Price":"\u20b9910,999","Title":"iQOO Neo 6 5G (Dark Nova, 8GB RAM, 128GB Storage) | Only Snapdragon 870 in The Segment | 50% Charge in Just 12 Mins | 90 FPS Gaming Support"}, {"Price":"\u20b9914,999","Title":"Apple iPhone 13 (128GB) - (Product) RED"}, {"Price":"\u20b9971,999","Title":"OnePlus 10R 5G (Forest Green, 8GB RAM, 128GB Storage, 80W SuperVOOC)"}, {"Price":"\u20b9979,900","Title":"Apple iPhone 14 (128 GB) - Starlight"}, {"Price":"\u20b9971,999","Title":"Apple iPhone 11 (64GB) - White"}, {"Price":"\u20b9979,900","Title":"Apple iPhone 14 Plus (128 GB) - Purple"}]]
```

```
127.0.0.1:8080/?q=iphone12

JSON  Raw Data  Headers

Save Copy Collapse All Expand All Filter JSON

result:
  0:
    Price: "\u20b9959,900"
    Title: "Apple iPhone 12 (128GB) - White"
  1:
    Price: "\u20b9970,900"
    Title: "Apple iPhone 12 (64GB) - (Product) RED"
  2:
    Price: "\u20b9953,999"
    Title: "Apple iPhone 12 (256GB) - Purple"
  3:
    Price: "\u20b9959,900"
    Title: "Apple iPhone 12 (256GB) - White"
  4:
    Price: "\u20b9966,999"
    Title: "Camera Privacy Covers Compatible for iPhone 12 Pro Max DNGN Slide Cover Protect Camera Lens, Hybrid TPU Bumper PC Case for iPhone12 Pro Max (Green)"
  5:
    Price: "\u20b9994,900"
    Title: "Samsung Galaxy M13 (Aqua Green, 4GB, 64GB Storage) | 6000mAh Battery | Upto 8GB RAM with RAM Plus"
  6:
    Price: "\u20b9974,900"
    Title: "Apple iPhone 14 (128 GB) - Blue"
  7:
    Price: "\u20b9980,900"
    Title: "Apple iPhone 14 (128 GB) - Midnight"
  8:
```

Postman

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Sign In Create Account

Scratch Pad

GET http://127.0.0.1:80...

No Environment

Collections

You don't have any collections

Collections let you group related requests, making them easier to access and run.

Create Collection

http://127.0.0.1:8080/?q=iphone12

GET http://127.0.0.1:8080/?q=iphone12

Send

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

Query Params

KEY	VALUE	DESCRIPTION		Bulk Edit
<input checked="" type="checkbox"/> q	iphone12			

Body Cookies Headers (4) Test Results

200 OK 1482 ms 2.4 KB Save Response

Pretty Raw Preview Visualize

```
{
  "result": [
    {
      "Price": "\u20b9953,999",
      "Title": "Apple iPhone 12 (256GB) - Purple"
    },
    {
      "Price": "\u20b9959,900",
      "Title": "Apple iPhone 12 (256GB) - White"
    },
    {
      "Price": "\u20b9966,999",
      "Title": "Camera Privacy Covers Compatible for iPhone 12 Pro Max DNGN Slide Cover Protect Camera Lens, Hybrid TPU Bumper PC Case for iPhone12 Pro Max (Blue)"
    },
    {
      "Price": "\u20b9974,900",
      "Title": "Apple iPhone 14 (128 GB) - Blue"
    },
    {
      "Price": "\u20b9980,900",
      "Title": "Apple iPhone 14 (128 GB) - Midnight"
    },
    {
      "Price": "\u20b9992,499",
      "Title": "OnePlus Nord CE 2 Lite 5G (Black Dusk, 6GB RAM, 128GB Storage)"
    },
    {
      "Price": "\u20b9992,999",
      "Title": "OnePlus Nord 2T 5G (Jade Fog, 8GB RAM, 128GB Storage)"
    },
    {
      "Price": "\u20b9910,999",
      "Title": "iQOO Neo 6 5G (Dark Nova, 8GB RAM, 128GB Storage) | Only Snapdragon 870 in The Segment | 50% Charge in Just 12 Mins | 90 FPS Gaming Support"
    },
    {
      "Price": "\u20b9914,999",
      "Title": "Apple iPhone 13 (128GB) - (Product) RED"
    },
    {
      "Price": "\u20b9971,999",
      "Title": "OnePlus 10R 5G (Forest Green, 8GB RAM, 128GB Storage, 80W SuperVOOC)"
    },
    {
      "Price": "\u20b9979,900",
      "Title": "Apple iPhone 14 (128 GB) - Starlight"
    },
    {
      "Price": "\u20b9971,999",
      "Title": "Apple iPhone 11 (64GB) - White"
    },
    {
      "Price": "\u20b9979,900",
      "Title": "Apple iPhone 14 Plus (128 GB) - Purple"
    }
  ]
}
```

Postman

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Search Postman

Scratch Pad

New Import

GET http://127.0.0.1:8080/?q=iphone12

No Environment

Save

GET http://127.0.0.1:8080/?q=iphone12

Send

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

Query Params

KEY	VALUE	DESCRIPTION	Bulk Edit
<input checked="" type="checkbox"/> q	iphone12		

Body Cookies Headers (4) Test Results

200 OK 1482 ms 2.4 KB Save Response

Pretty Raw Preview Visualize JSON

```
1
2
3
4
5
6
7
8
9
10
{
  "result": [
    {
      "Price": "¥53,999",
      "Title": "Apple iPhone 12 (64GB) - (Product) RED"
    },
    {
      "Price": "¥59,980",
      "Title": "Apple iPhone 12 (256GB) - Purple"
    }
  ]
}
```

Postman

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Scratch Pad

New Import

GET http://127.0.0.1:8080/?q=iphone12

No Environment

Save

GET http://127.0.0.1:8080/?q=iphone12

Send

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

Query Params

KEY	VALUE	DESCRIPTION	Bulk Edit
<input checked="" type="checkbox"/> q	iphone12		

Body Cookies Headers (5) Test Results

200 OK 1785 ms 1.62 KB Save Response

Headers (5)

KEY	VALUE
Server	Werkzeug/2.2.3 Python/3.9.1
Date	Sun, 23 Apr 2023 07:51:47 GMT
Content-Type	application/json
Content-Length	1496
Connection	close

-----Thank you-----