



1

pip install Flask

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app.py

```
from flask import Flask
```

Importing flask module in the project

3

app.py

```
from flask import Flask
app = Flask(__name__)
```

Creating flask constructor

4

app.py

```
from flask import Flask
app = Flask(__name__)
@app.route("/")
```

The route() function of the Flask class is a decorator, which tells the application which URL should call the associated function.

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app.py

```
from flask import Flask
app = Flask(__name__)
@app.route("/")
def hello_world():
    return "Hello, World!"
```

if url is bound with hello_world() function.

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app.py

```
from flask import Flask
app = Flask(__name__)
@app.route("/")
def hello_world():
    return "Hello, World!"
```

\$ flask --app app run
* Running on http://127.0.0.1:5000 (Press CTRL-C to quit)

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Hello, World!

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app.py

```
from flask import Flask
app = Flask(__name__)
@app.route("/")
def hello_world():
    return "Hello, World!"

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

run() method of Flask class runs the application on the local development server.

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```

app.py

from flask import Flask
app = Flask(__name__)

@app.route("/")
def hello_world():
    return "hiHello, World!/hi"

if __name__ == "__main__":
    app.run()

We can pass html tags

```

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```

app.py

from flask import Flask
app = Flask(__name__)

@app.route("/")
def hello_world():
    return "hiHello, World!/hi"

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

Debug True is auto rerun the page

```

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```

app.py

@app.route("/")
def hello_world():
    return "hiHello, World!/hi"

@app.route("/user")
def user():
    return "opHello, user! This is render on user route/ps"

if __name__ == "__main__":
    app.run()

"http://127.0.0.1:5000/user" is bound with user function.

```

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```

app.py

@app.route("/<name>")
def user(name):
    return f"opHello, {name}! This is render on user route</ps>"

"/<name>" is the argument passing in the url.

```

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```

flask_folder
├── templates
│   └── index.html
└── app.py

Flask file structure, flask know the templates folder

```

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```

app.py                                Index.html

from flask import Flask, render_template

@app.route("/")
def hello_world():
    return render_template("index.html")

render_template function is render the html file in the templates folder

<html>
<head>
<title>Flask-Title</title>
</head>
<body>
<h1>This is index.html file</h1>
</body>
</html>

```

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```

app.py                                Index.html

@app.route("/")
def hello_world(name):
    name = "python"
    return render_template("index.html",
                           name=name)

[[ name ]] this is jinja2 template, it can render python code in html file.

```

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```

app.py                                Index.html

@app.route("/<name>")
def hello_world(name):
    return render_template("index.html",
                           name=name)

[[ name ]] this is jinja2 template, it can render python code in html file.

```

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```

app.py                                user.html

@app.route("/user")
def user():
    name = "python"
    return render_template("user.html",
                           name=name)

[[ name ]] this is jinja2 template, it can render python code in html file.

```

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```

app.py                                user.html

@app.route("/user")
def user():
    items = ["Python", "Laptop",
            "TV", "Tablet"]
    return render_template("user.html",
                           devlinks=items)

<html>
<head>
<title>Flask-Hello</title>
</head>
<body>
    <div>This is user.html file/Hi</div>
    <div>For items in devlinks:</div>
    <div>{{ item }}</div>
    <div>{{ user }}</div>
</body>
</html>

{{ name }} this is jinja2 template, it can render python code in html file.

```

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```

app.py                                user.html

@app.route("/user")
def user():
    items = [{"Python", 1, "Java", 3, "html"}]
    return render_template("user.html",
                           programs=items)

<html>
<head>
<title>Flask-Hello</title>
</head>
<body>
    <div>This is user.html file/Hi</div>
    <div>For items in programs:</div>
    <div>{{ program(programs) }} <div>{{ program }}</div>
    <div>{{ user }}</div>
</body>
</html>

{{ name }} this is jinja2 template, it can render python code in html file.

```

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