

# Introduction to Flask

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Making web dev a piece of cake since it's birth

By Manash

# Flask what?



# Flask

web development,  
one drop at a time

# Creating a Flask Project

```
# Import flask library
```

```
from flask import Flask
```

```
# Initialize the application
```

```
app = Flask(__name__)
```

```
# Define a route using Python
```

```
Decorator
```

```
@app.route('/')
```

```
def hello_world():
```

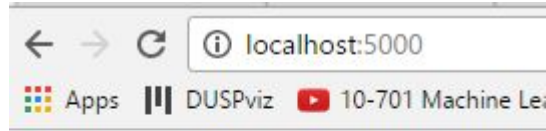
```
    return "<h1>Hello, KUETians!</h1>"
```

- Create a python file. Example: app.py
- Add the following code

# Running the Flask App

- Open a command window where your `app.py` file is
- Enter the following commands
  - `set FLASK_APP=app.py`
  - `set FLASK_DEBUG=1`
  - `flask run`

# Voila!



**Hello KUETians!**

Browse `http://localhost:5000`

# Routing 101

Append the following code then SAVE the file

```
# A simple route without passing value
@app.route('/my_name_is')
def get_my_name():
    return "<h1>No name found!</h1>"
```

Browse [http://localhost:5000/my\\_name\\_is](http://localhost:5000/my_name_is)

# Routing contd...

Now append this snippet

```
# A route with value
@app.route('/say_my_name/<name>')
def say_my_name(name):
    return "<h1>Your name is: " + name + "</h1>"
```

Browse [http://localhost:5000/say\\_my\\_name/Heisenberg](http://localhost:5000/say_my_name/Heisenberg)

# Flask Project Structure : Basic

Project\_Folder

|----- templates/

|          |---- layout.html

|          |---- ....

|----- static/

|          |---- js/

|          |      |--- script.js

|          |----- css/

|          |      |--- main.css

|----- app.py



# Templating in Flask : Jinja2

- Create a folder named `templates`
- Create a file `main.html` in the folder named `templates`
- Create a file `name.html` in the folder named `templates`

# Templating contd... : main.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Workshop | 2K17</title>
</head>
<body>
  <h1>
    {% block placeholder %} {% endblock %}
  </h1>
  <h2>From Breaking Bad</h2>
</body>
</html>
```

# Templating contd... : name.html

```
{% extends 'main.html' %}
```

```
{% block placeholder %}
```

```
Say my name ...
```

```
<br/>
```

```
{{ name }}
```

```
{% endblock %}
```

# Templating contd... : app.py

Remove everything and add these codes

```
from flask import Flask, render_template

app = Flask(__name__)

@app.route('/say_my_name/<name>')
def say_my_name(name):
    return render_template('name.html', name=name)
```

# Browse

[http://localhost:5000/say\\_my\\_name/Heisenberg](http://localhost:5000/say_my_name/Heisenberg)

# Any Questions?

If you can't think of it right now, save it for later or send the question via this form

[https://bit.ly/makers\\_hub\\_faq](https://bit.ly/makers_hub_faq)

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# Make your own route FROM SCRATCH

`http://localhost/say_my_batch/2K12`

`*Don't cheat, use a template`