



## Introduction to Flask



What is Flask?

Flask is a web application framework written in Python



### **Web Framework**









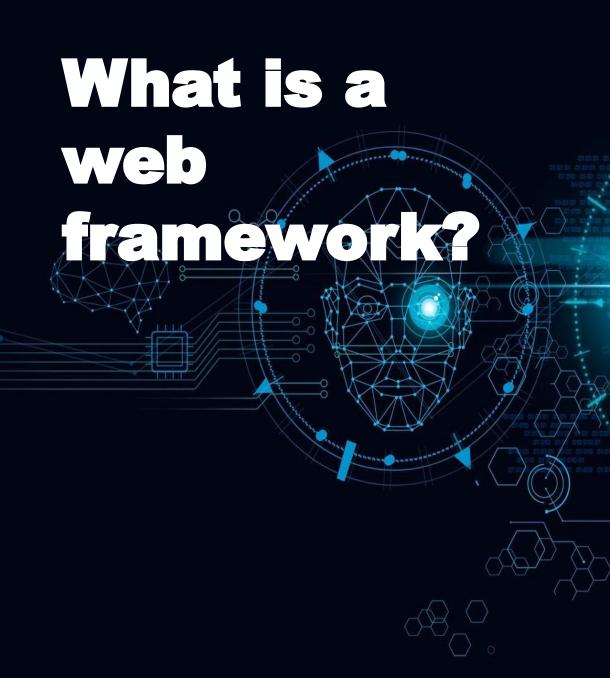
Web Development



Libraries



Web Application

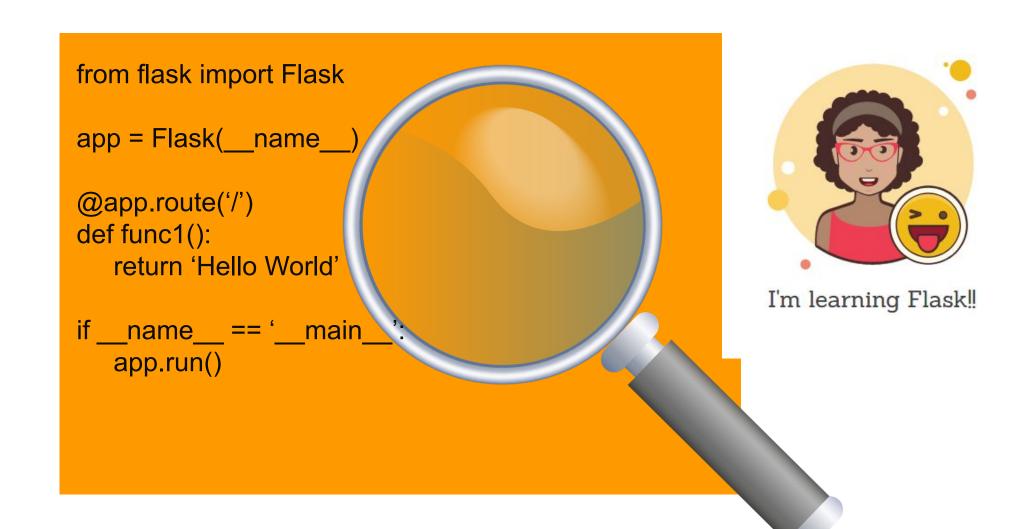


# Flask Installation

pip install Flask



# Flask - Application





# Flask - Application



**Beingdatum** 

### Flask - Application

#### **Debug Mode**



Flask application is started by calling the run() method

- \* Serving Flask app "test" (lazy loading)
- Environment: production
  WARNING: Do not use the development server in a production environment.
  Use a production WSGI server instead.
- \* Debug mode: off
- \* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

#### \* Serving Flask app "test" (lazy loading)

- Environment: production
  WARNING: Do not use the development server in a production environment.
  Use a production WSGI server instead.
- Debug mode: on
- \* Restarting with stat



### **How to enable Debug?**

app.debug=True
app.run()
app.run(debug=True)

SET FLASK\_DEBUG=1 (Anaconda Prompt)



### Flask - Routing

Route() decorator

route() decorator in Flask is used to bind URL to a function

**Example** 

```
@app.route('/')
def hello():
    return 'Hello World'
```

add\_url\_rule() function is also used to bind URL with function



### Flask - HTTP methods

#### HTTP Protocols are the foundation for data communication in WWW

SI. no.	Method	Description
1	GET	Sends data in unencrypted form to the server
2	HEAD	Same as GET, but without response body
3	POST	Used to send HTML form data to the server
4	PUT	Replaces all current representations of target resource with uploaded content
5	DELETE	Removes all current representations of target resource given by URL



### Flask - Errors

#### **Standardized status codes**

SI. no.	Code	Description
1	400	Bad Request
2	401	Unauthorized
3	403	Forbidden
4	404	Not Found
5	406	Not Acceptable
6	415	Unsupported Media Type
7	429	Too Many Requests



# Let's build some web apps





