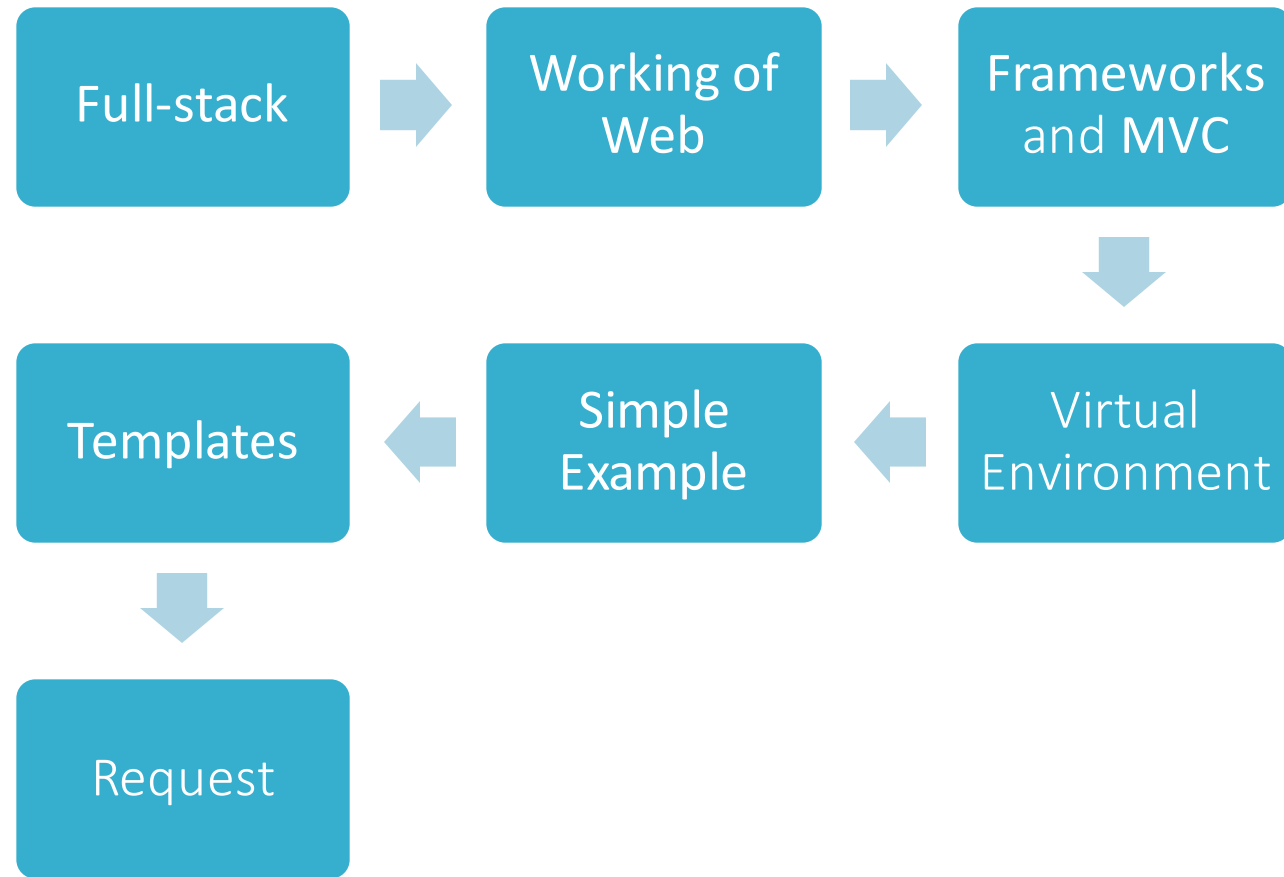


DAY 3

Intro to Web Programming with Flask

Road Map



Full-Stack = Front-End + Back-End





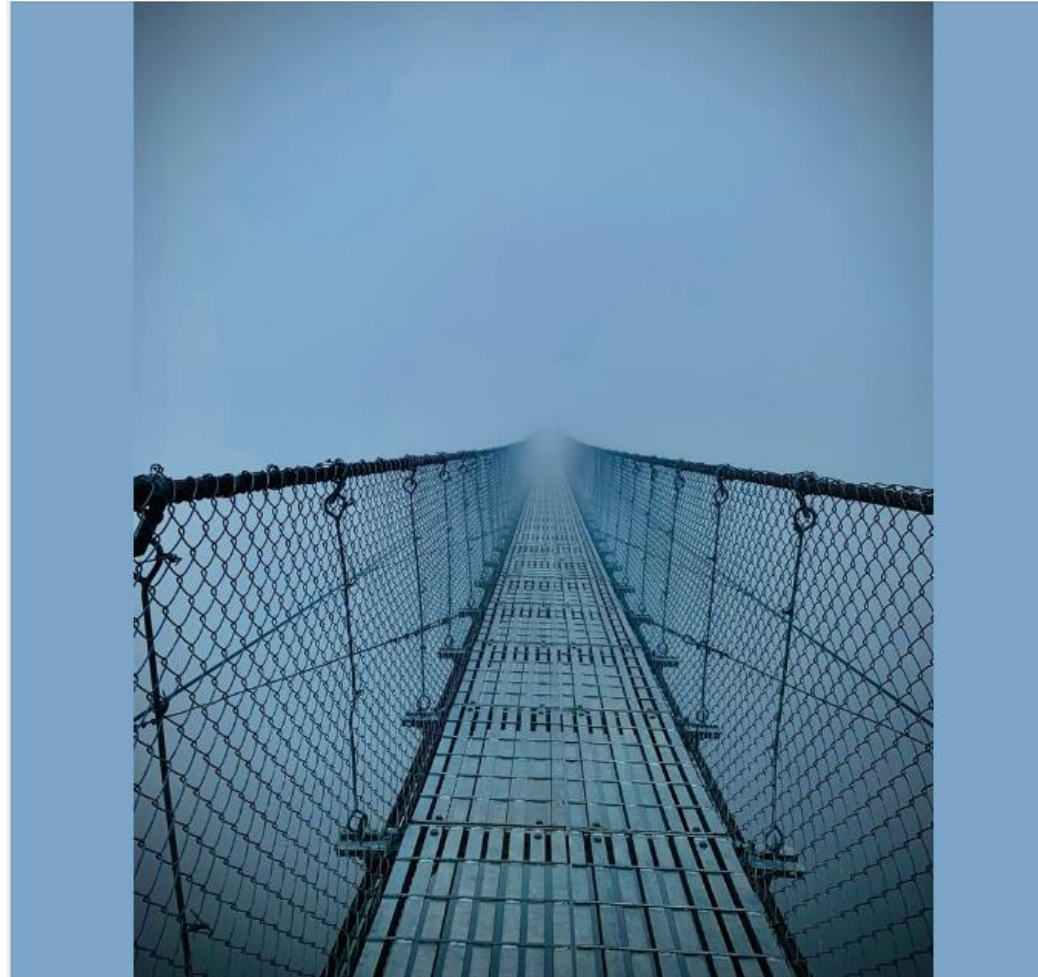
Routine of Nepal banda

Yesterday at 2:33 PM · 🌐



Way to heaven: Newly constructed suspension bridge near Supa Deurali Temple Arghakhanchi 🙏

Pic: @msachinn



[Profile picture] and 22K others

1K Comments 328 Shares



Like



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Front House



Front-End

Kitchen



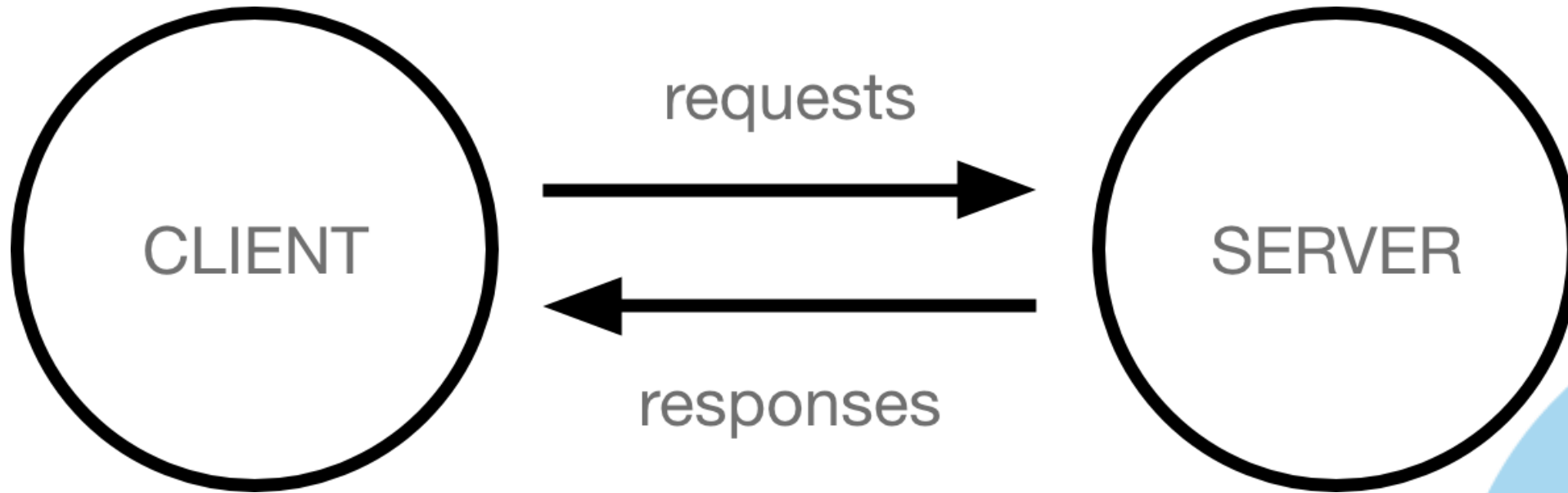
Server

Cupboard

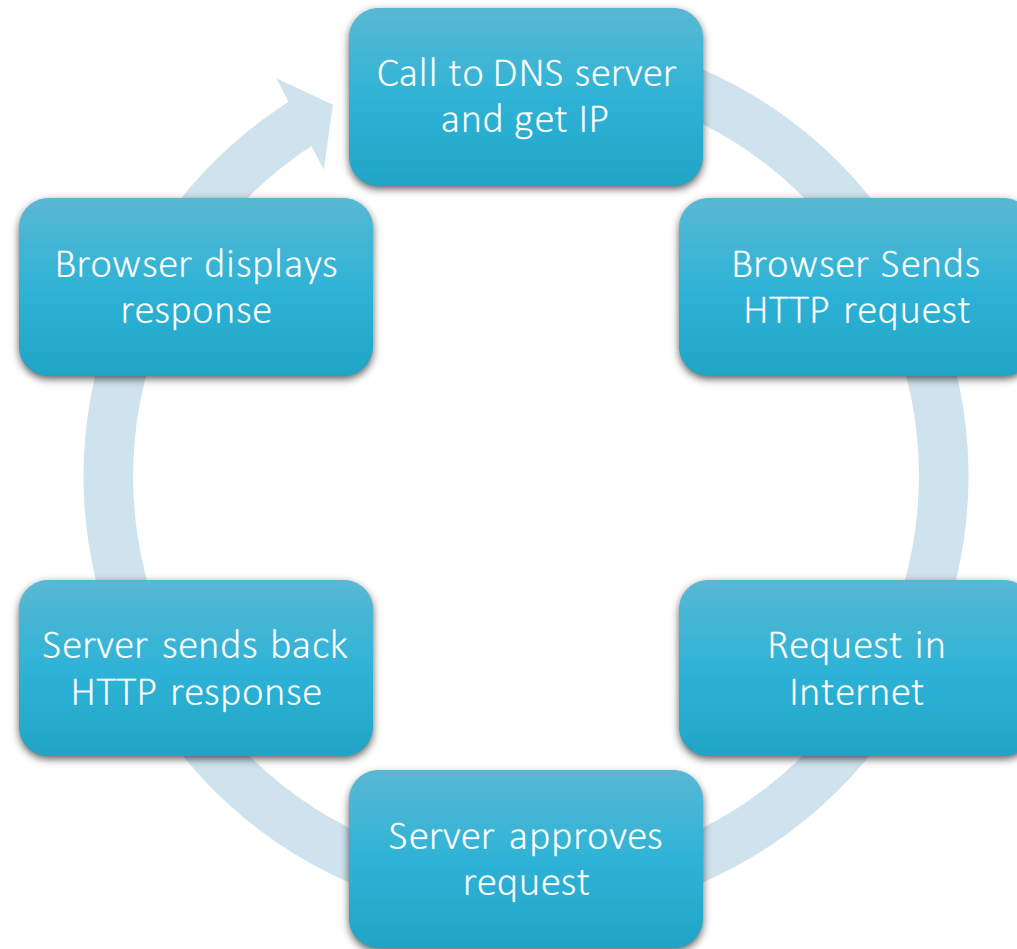


Database

How does web work?



Request Response Cycle



HTTP Request

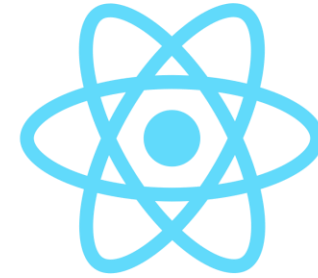
```
> GET / HTTP/1.1  
> Host: www.google.com  
> User-Agent: curl/7.68.0  
> Accept: */*  
>
```

HTTP Response

```
< HTTP/1.1 200 OK  
< Date: Wed, 07 Jul 2021 12:37:10 GMT  
< Expires: -1  
< Cache-Control: private, max-age=0  
< Content-Type: text/html; charset=ISO-8859-1
```



Frameworks



django



They

Handle low level works

We

Create application logic



Why to use them?

Fast development

Secure code

Prevention of duplication

Increased reliability

Easy to test and Debug



MVC Pattern

What is a pattern?

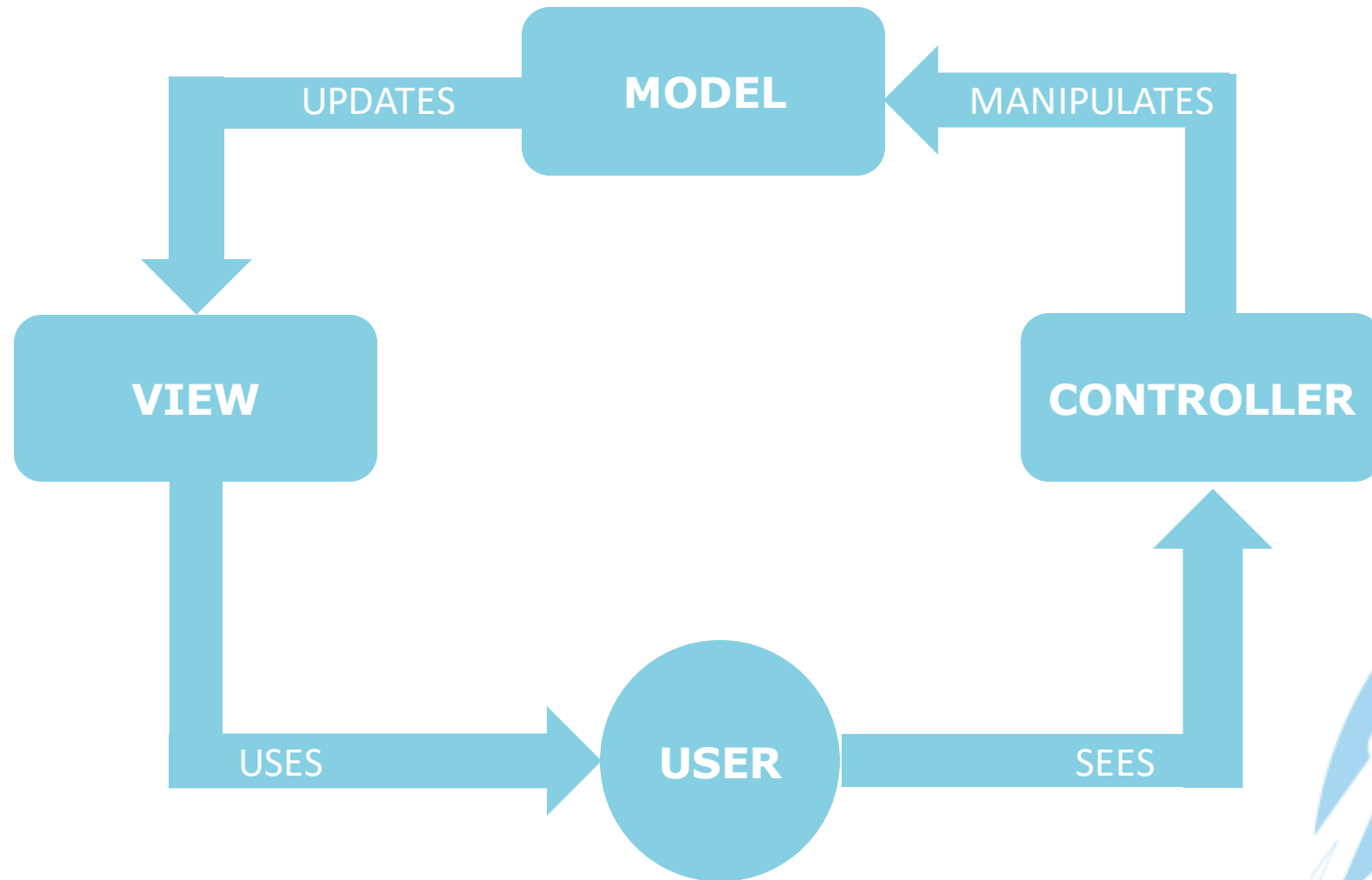
Pattern

Reusable Solution

Solves common problems

Not a code





Let's do some tasks.

Virtual Environment

- Isolated Python interpreter, libraries and scripts
- A directory tree keeps all the dependencies
- No clash of dependencies



Routes

```
1 from flask import Flask
2
3 app = Flask(__name__)
4
5
6 @app.route('/')
7 def index():
8     return "Hello World"
9
```

The destination for a client request in the server

{url} /path/to/destination



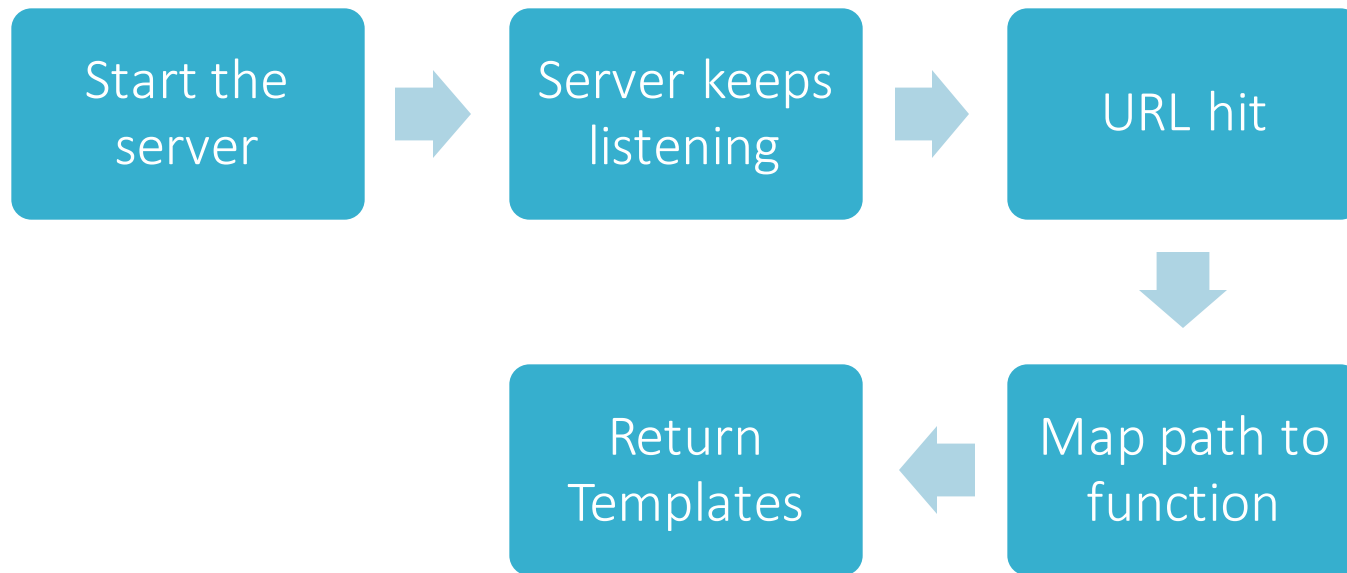
Controller Function

```
1  from flask import Flask
2
3  app = Flask(__name__)
4
5
6  @app.route('/')
7  def index():
8      return "Hello World"
9
```

- Mapped function to given route
- Business Logic



App Workflow



Templates

Presentation Logic

Just HTML files?

More powerful with Templating
Engine **Jinja**



What is rendering?

Attach arguments to HTML passed from controller function



Methods

| GET | POST |
|---------------------------------|--|
| Access resource from the server | Submit something to cause some change in server. |
| Visible in URL bar | Packed within request |



Thank You

IP Address

4 numbers separated by a dot(.)

Address of the device
in internet

Unique Identifier



192.168.1.1



Domain Name

Human Readable Format

Indicates address

Unique

