



REST API with Flask

API SIMPLIFIED



APPLICATION

Application could be anything from the website apps and games which makes the lives of user so easy...



PROGRAMMING

The piece of code that user generates on which the application as been build .Lets say we use whatsapp to chat ,or the google search to find something.



INTERFACE

interface is a program that allows a user to interact computers in person or over a network. We have all known about GUI as the icons and folders of your OS. API is the interface for applications.

HOW WEB WORKS

Mostly web apps consists of two parts

- 1 .The which you see (Frontend)
- 2 .The other which you dont see.(Backend)
 - Consider Youtube
 - Frontend – video player ,comments, Subscribe button, Bell icon etc,
 - Backend–The video data,the database of comments.It handles the part of adding comments,deleting comments,editing it.

API



Hi! my
name is API

API stands for "Application
Programming Interface"

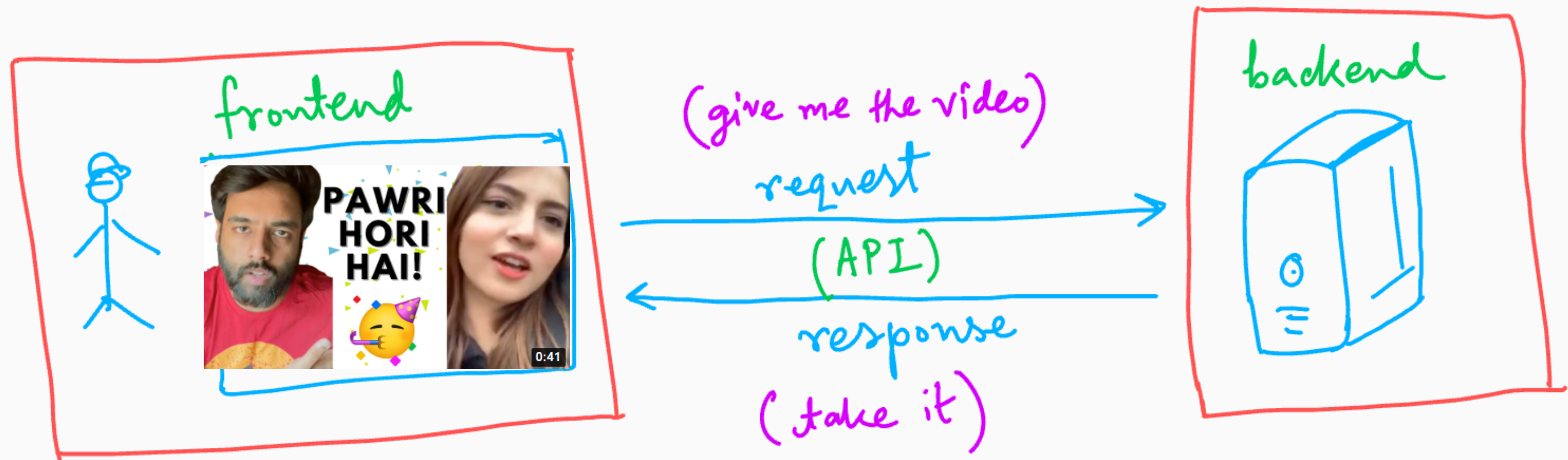
API is just like a waiter, Kitchen
is the application, order is the
request, food is the response.

API <-> Waiter

Backend <-> Cook

Frontend <-> Dining Table

Data <-> Food



Asking video streaming site to show the video of
"pawri ho ri hai"

WHO CAN CALL API?

Frontend(Javascript)

Apps(Flutter/Java)

Another Backend(Flask/Node)

Anyone can call it...

**LETS WATCH AN API SENDING
REQUESTS LIVE....**

REST API'S

REST stands for Representational State Transfer.

Most used Web API style



4 Methods of REST APIs

GET

GET request is used to obtain a resource from a server. On performing a GET request, the server looks for the data that has been requested and sends it back to us

POST

POST: A POST request creates a fresh entry onto the database, and reverts back to us telling us whether the reaction of the entry has been successful or not.

PUT

These requests are used to update resources on the server.

DELETE

This request deletes a resource from the server.

ENDPOINTS

Routes in Website <-> Endpoints in API

Just like we have a login and sign up page ,here login is an endpoint and signin is another endpoint.



POSTMAN

LETTERS ON THE
WAY...



JSON

```
"id": "40796308305",
"name": "Coca-Cola",
"picture": "http://profile.ak.fbcdn.net/hprofile-ak-ash2/174560_407963083",
"link": "http://www.facebook.com/coca-cola",
"likes": 46963810,
"cover": {
  "cover_id": "10151829640053306",
  "source": "http://a8.sphotos.ak.fbcdn.net/hphotos-ak-ash3/s720x720/529413_10151829640053306_446360541_n.jpg",
  "offset_y": 0
},
"category": "Food/beverages",
"is_published": true,
"website": "http://www.coca-cola.com",
"username": "coca-cola",
"founded": "1886",
```

```
{
  "name": "John",
  "age": 18
}
```

Format to exchange data
between frontend and backend

URL



api.lttkgp.com
kwoc-stats.herokuapp.com

NewImportRunner

My WorkspaceInvite

Sign In

Filter

HistoryCollections

Save Responses

You haven't sent any requests

Any request you send in this workspace will appear here.

Show me how

GETUntitled Request

No Environment

Untitled Request

GETEnter request URLSendSave

ParamsAuthorizationHeadersBodyPre-request ScriptTests

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

CookiesCodeComments (0)

Response

Hit the Send button to get a response.

Learn

Implementing Flask...

Hands-On Experience...





QUESTIONS????

RESOURCES

Download python:

<https://www.python.org/downloads/>

Download postman:

<https://www.postman.com/product/rest-client/>

Download VS-Code:

<https://code.visualstudio.com/download>