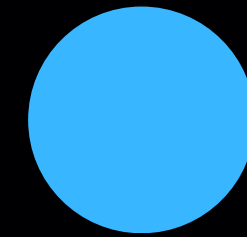
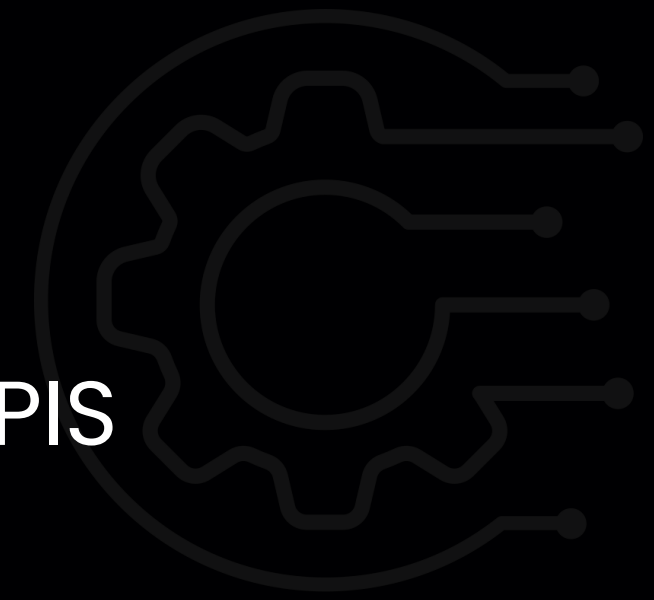




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FROM ZERO TO REST: A BEGINNER'S JOURNEY TO API MASTERY

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INTRODUCTION TO REST APIS

- What is a REST API?
- Why are REST APIs important?
- Basic concepts and terminology:
 - Resource
 - Representation
 - JSON
 - HTTP methods
 - Status codes



REST API



COMPONENTS

01

The Resource:

What the API is giving access to, like a user profile or a product catalog.

03

The Request:

This contains the necessary information for the server to carry out the action, like parameters or a payload.

02

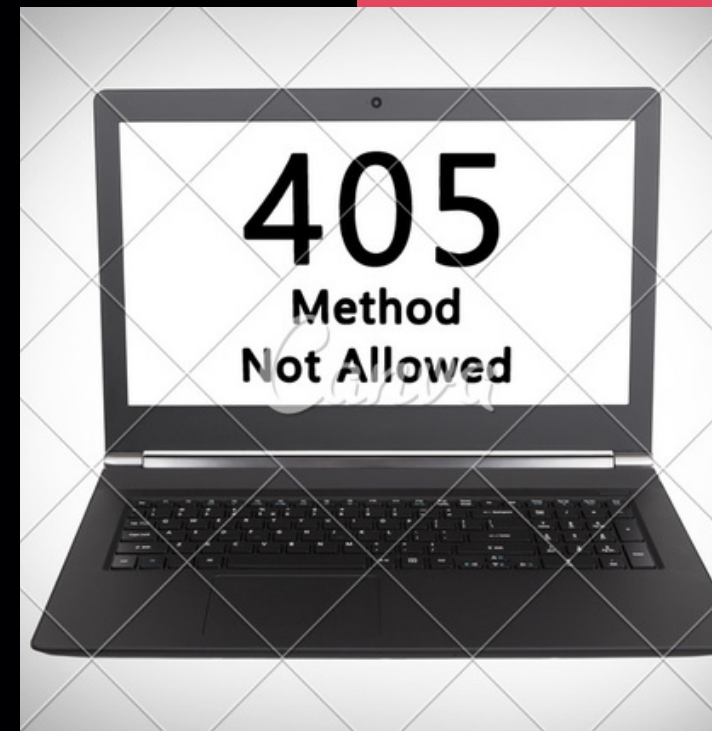
The HTTP Method:

The action the clients wants to take on the resource, like getting, creating, updating, or deleting it.

04

The Response:

This contains the data that the server returns to the client, like the resource itself or an error message.



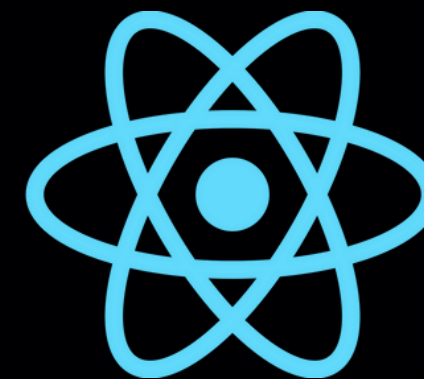


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EXAMPLE OF A REST API

Now, let's build a very simple example with Flask – a python web framework and consume it from a simple ReactJs app.





BEST PRACTICES

Resource Names

It's important to use meaningful resource names, like /users or /orders.

HTTP Status Codes

Respond with the right status code e.g. 404 for when resource is not found.

Authentication

Security is also important & token-based authentication can be used to validate client's identity.



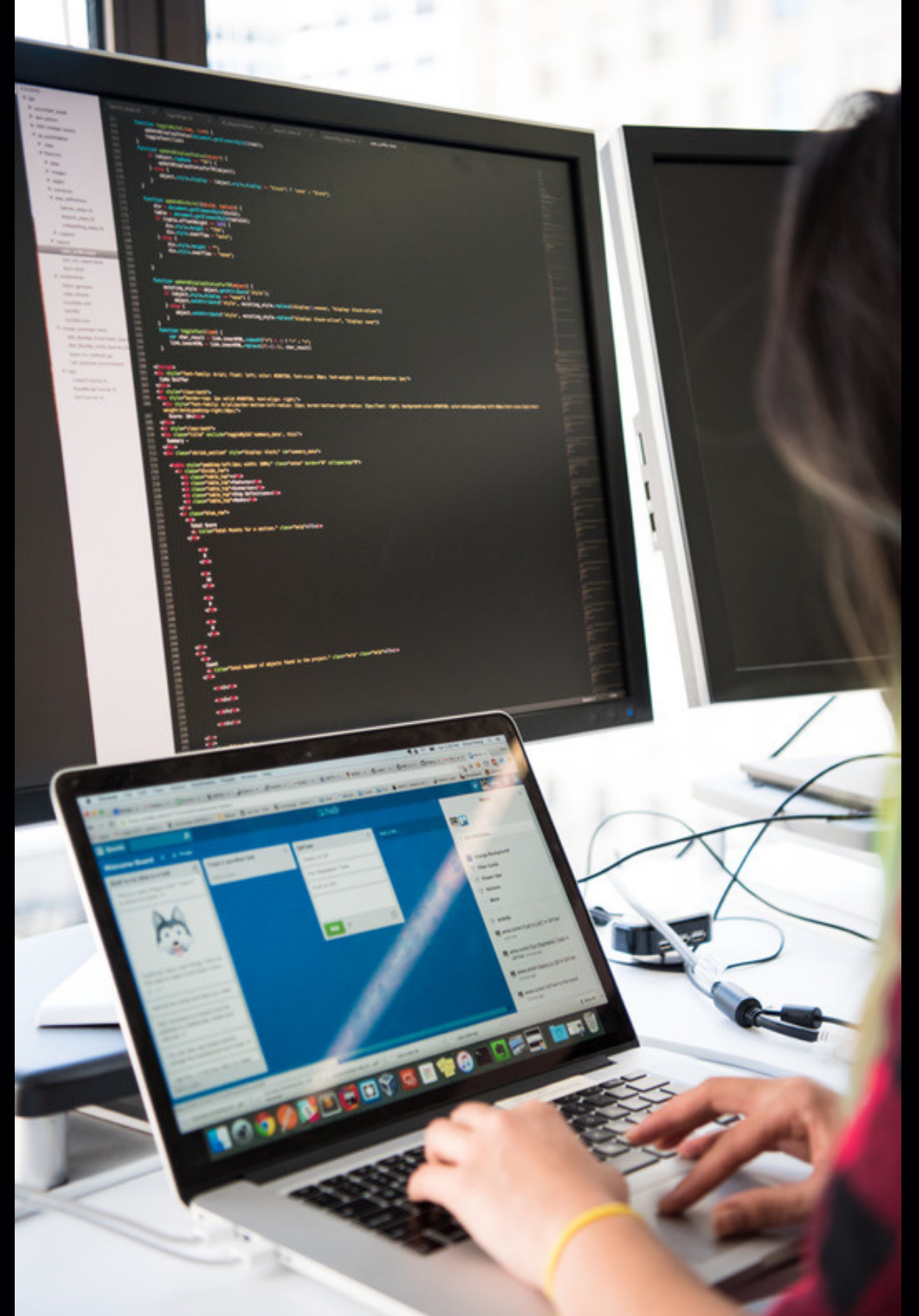
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REAL-WORLD EXAMPLES OF REST APIS



Africa's Talking API

Let's quickly build something with Africa's Talking API.





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THANK YOU

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