

Web Services: API and YouTube.



Durante Samuele Orazio



What is a Web Service?

Web Services

Definition

Web services are a key component in achieving interoperability between applications and systems on the web, allowing them to communicate and share data seamlessly. They play a crucial role in the development and operation of modern web applications.





Benefits/Properties of Web Services







Loose Coupling



Communication Protocols



Difference between SOAP and REST

2 approach, 2 scenarios

SOAP

SOAP is a messaging protocol that allows programs running on disparate operating systems to communicate with each other. It uses XML for message format and relies on application layer protocols, most often Hypertext Transfer Protocol (HTTP) or Simple Mail Transfer Protocol (SMTP), for message negotiation and transmission.

REST

REST is an architectural style for web communication, facilitating interaction between systems. These systems are stateless, using standard HTTP methods for data transactions. Known for its simplicity and scalability, REST is often used in cloud services and social networking sites. A web service following REST principles is termed RESTful.

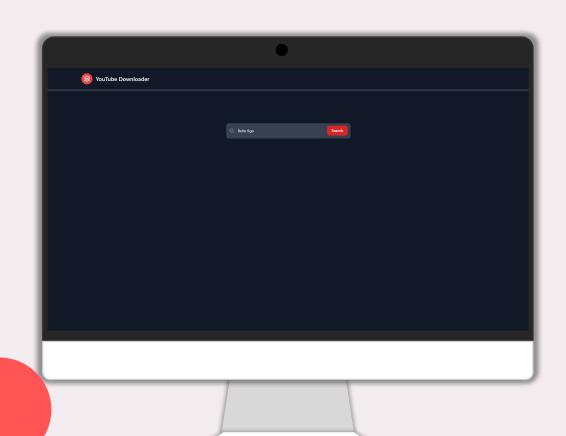


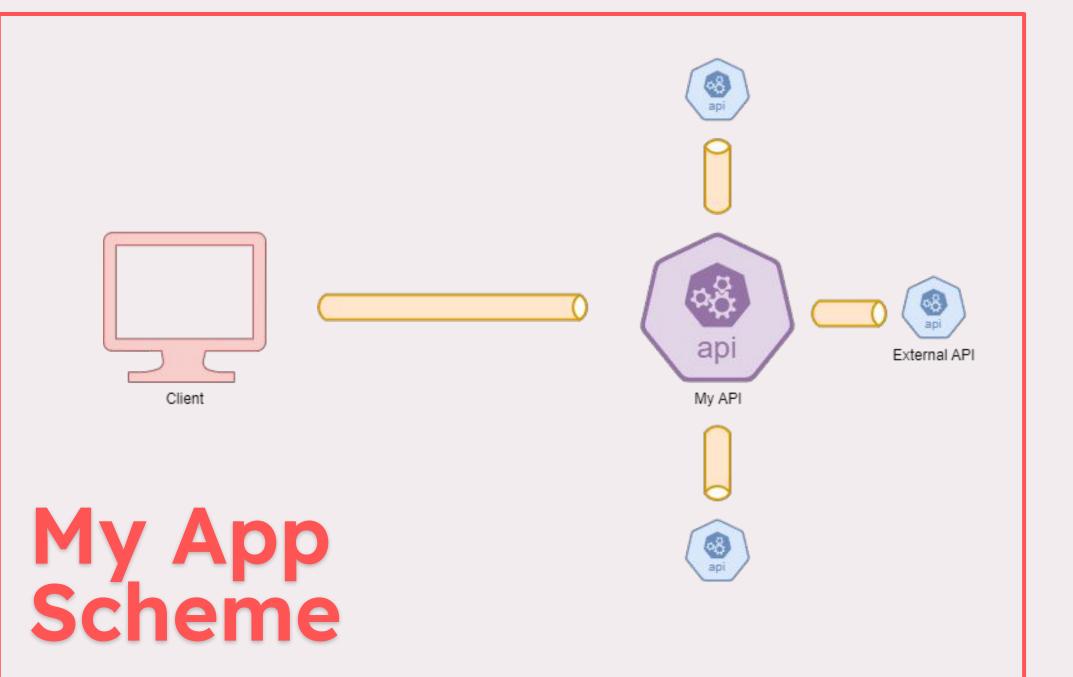
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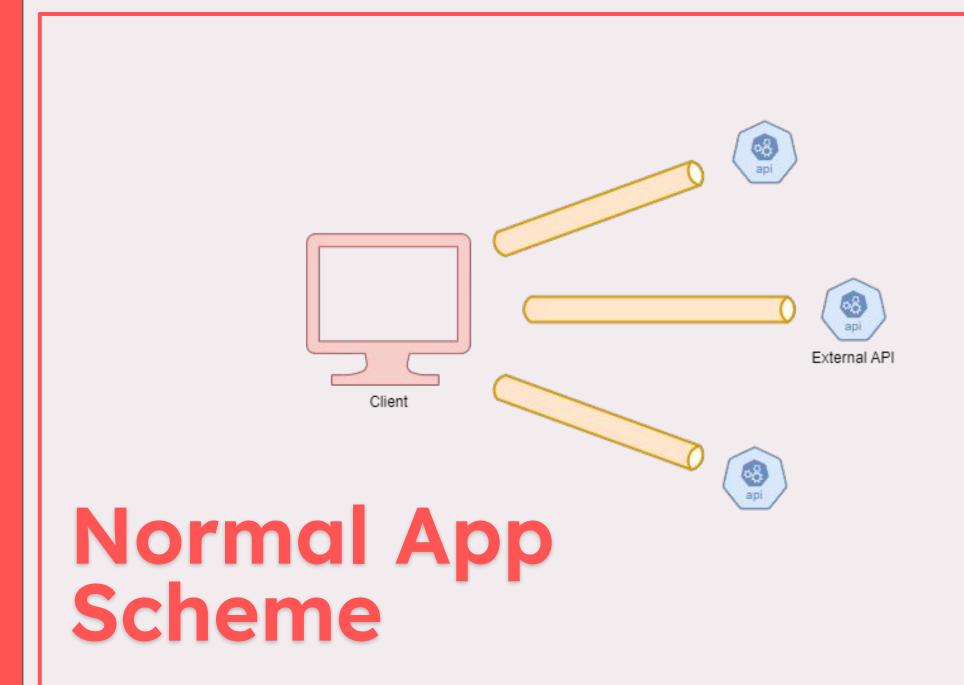


Youtube Downloader

It is a software that allows to search for videos on YouTube and the ability to download them in various formats and qualities.









NOW a demo



NOW the code