

AceleraDev Loadsmart Women Edition

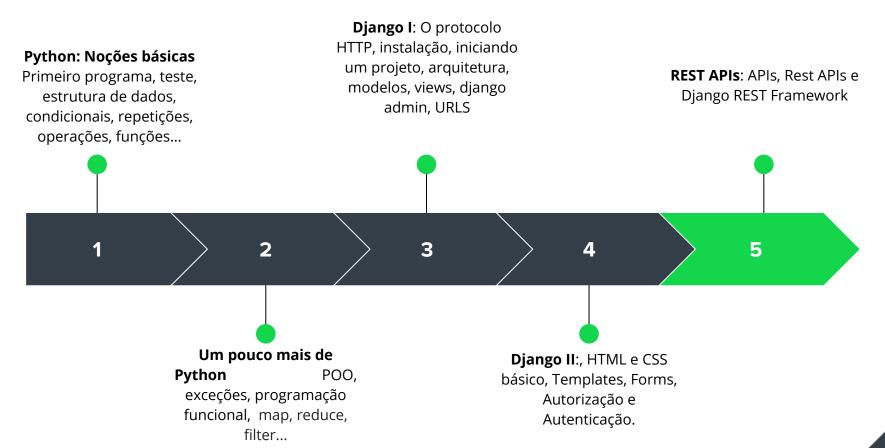
Módulo 5

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Esta apresentação está disponível em:

https://github.com/camilamaia/acelera-dev-loadsmart-women/

Módulos



Application Programming Interface

API

"É um conjunto de **funções** estabelecidos por um software para a utilização das suas funcionalidades por aplicativos que não pretendem envolver-se em detalhes da implementação do software, mas apenas usar seus **serviços**."

API

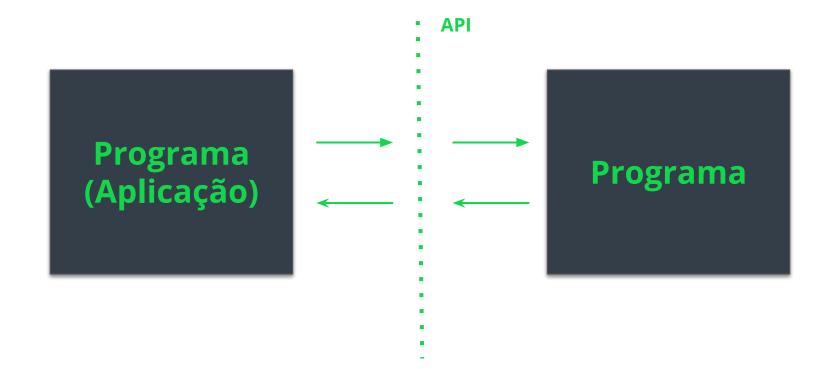
APIs are all about sharing. An API is an interface that lets one software program "talk" to another, exchanging data behind the scenes. Sharing has always been a foundation of digital technology.

Operating systems, for instance, provide shortcuts that allow programmers to access the keyboard, mouse and other parts of the computer without writing code each time.

APIS THE BUILDING BLOCKS OF THE APP ECONOMY

- Compartilhar
- Interface de comunicação
- É uma maneira de comunicação entre dois programas
- SO's: atalhos para acessar teclado, mouse...

API

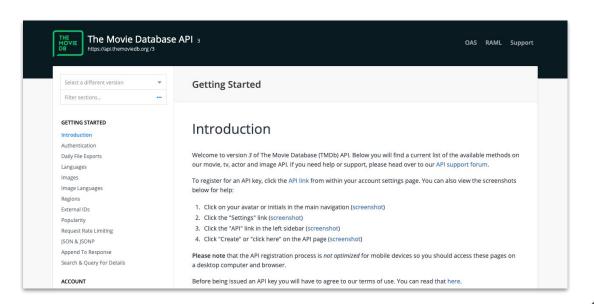


API

- Serviço
- Para utilizar esse serviço, você precisa entender como ele funciona: documentação.
 (Menu de um restaurante)

API Exemplo

- The Movie Database (TMDb) API
- <u>Cadastro</u>
- <u>Titanic</u>



APIs Exemplos

- Twitter API
- Facebook API
- Youtube API
 - https://github.com/youtube/api-samples

- https://github.com/toddmotto/public-apis
- https://blog.rapidapi.com/most-popular-apis/

APIs Por que?

- Fácil integração com novos serviços
- Foco no negócio da empresa
- Viabilização de parcerias
- Velocidade de entrega
- ..

APIs: Por que?

The API Economy

- API is a product
- "Twitter APIs easily have ten times more traffic than the Twitter website does."
- "Amazon, from the get-go, chose to be not only just an Internet retailer but also a ubiquitous merchant portal. Amazon's merchant platform is deliberately built on APIs that allow easy onboarding of new merchants."

APIS THE BUILDING BLOCKS OF THE APP ECONOMY

APIS FOR DUMMIES - IBM

REST APIS

- Design de APIs para web
- Série de padrões para construir uma API

10 Best Practices for Better RESTful API

Restful API Designing Guidelines

JSON

- It is a lightweight data-interchange format.
- It is easy for humans to read and write.
- It is easy for machines to parse and generate.
- Modelo de dados
- Modelo de dados usado em muitas APIs
- JavaScript Object Notation
 - The JSON format is syntactically identical to the code for creating JavaScript objects.
- Especificação: https://www.json.org
- JSON em Python: https://docs.python.org/3/library/json.html

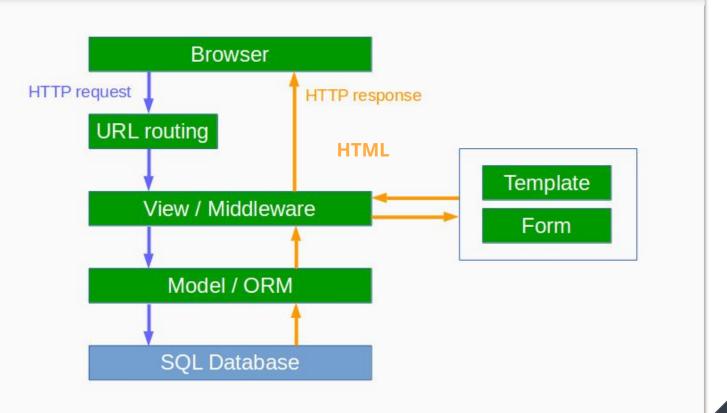


DRF

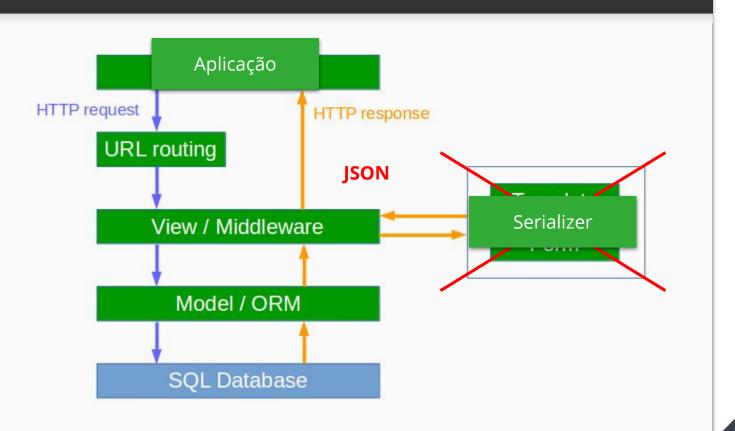
 Django REST framework is a powerful and flexible toolkit for building Web APIs.

- Web browsable API
- Quick Start
- <u>Tutorial</u>

Django's architecture



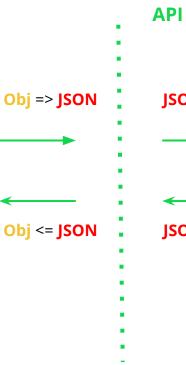
Django's architecture

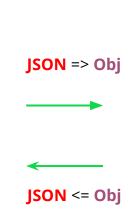


Serialization

Programa 2 (Aplicação)

Objetos da aplicação

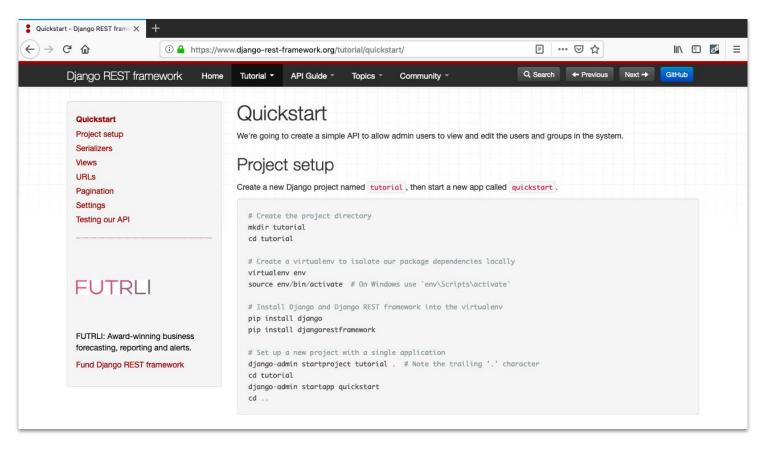






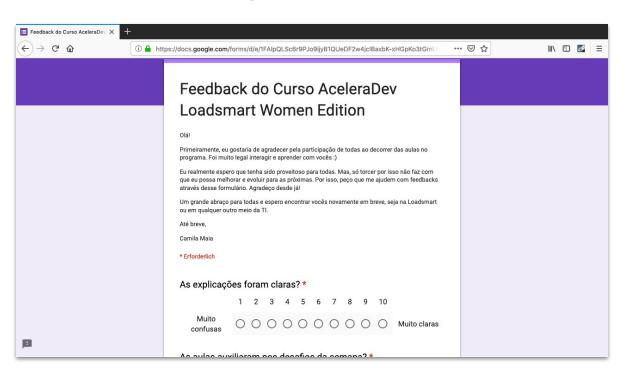
Objetos Python do programa 1

Quickstart



Feedbacks do curso!

https://forms.gle/pe2FrwSU66hgrYEk6



Conteúdos

- https://medium.freecodecamp.org/what-is-an-api-in-english-please-b880a3214a82
- https://www.ibm.com/downloads/cas/GJ5QVQ7X
- https://www.nytimes.com/paidpost/ca-technologies/apis-the-building-blocks-of-the-app-economy.html
- https://blog.mwaysolutions.com/2014/06/05/10-best-practices-for-better-restful-api/
 i/
- https://hackernoon.com/restful-api-designing-guidelines-the-best-practices-60e1d9
 54e7c9
- https://www.json.org
- https://www.w3resource.com/JSON/introduction.php
- https://www.django-rest-framework.org



MUITO OBRIGADA!