GENERAL ASSEMBLY

APIs

Wellington Moreno

Lead iOS Instructor, General Assembly

LESSON

LEARNING OBJECTIVES

+ **Describe** APIs and how to use them
+ **GET** data from an API using cURL
+ **Interpret** API documentation
+ **Acquire and Use** an API Key

QUESTION

WHAT THE HECK IS AN API?

API

Application Program Interface

VIDEO

AN API IS:

A way of communicating with a software system.

GUIDED PRACTICE

STUDYING AN API

http://editor.swagger.io/#/

PAIR PRACTICE: PLAYGROUNDS

15 mins

DIRECTIONS

1. Study the Twitter API.
2. Take 5 operations and make Swift function declarations that match the API.

BONUS: Write out the Data Models too

DELIVERABLES

A Playgrounds file with your answers

GUIDED PRACTICE

MAKING API CALLS

http://petstore.swagger.io/#/

PRACTICE: MAKING API CALLS

CODE

10 mins

DIRECTIONS

Make the following API calls:

+ Create a Pet
+ Update a Pet
+ Get a Pet
+ Delete a Pet
+ ***Bonus: Make the calls using cURL***

FYI

API KEYS

As a way of safeguarding against abuse, many APIs employ authentication mechanisms that require an API Key. You will need to sign up for an account in order to make requests.

PRACTICE: DESIGN AN API

15 mins

DIRECTIONS

Design a REST API that allows me to pre-order the iPhone

+ Sign in
+ Place the pre-order
+ View latest iPhone
+ Update shipping address
+ Sign Up
+ Check order status
+ Cancel my order

BONUS: Use Swagger Editor to write the API

TAKEAWAYS

CONCLUSION

APIs allow your Apps to connect to other systems

CONCLUSION

Use APIs to make your apps more interesting and provide richer user experiences

THANKS!

WELLINGTON MORENO

+ GitHub/Slack: **@SirWellington**
+ Twitter: **@SirWellingtonZ**
+ Email: **wellington.moreno@ga.co**

FOR INSTRUCTOR PURPOSES ONLY

MATERIALS

+ Lab
+ Lesson Plan
+ Swagger Editor
+ Swagger UI