



## Career Services Assignment 9 – API Flash Cards

**Instructions:** Research common interview questions online revolving around REST, Spring, and building APIs and create 20 flash cards from the information you find. Study your flash cards regularly to better prepare for interviews. Fill out the table below with the information you put on each of your flash cards.

Front of Card	Back of Card
What is SpringBoot	A module of the Spring framework that can be used to create stand-alone applications.
How do you setup a Java Project to use both Maven and SpringBoot	Create a Maven project in the IDE such as Spring Tools Suite and then use the Spring Initializer to create several POM dependencies to enable your project for Spring Boot
What is REST	Representational State Transfer
What is a REST API	API is Application Programming Interface – allows otherwise separate applications to interact.
What is the communication protocol used in REST	HTTP
What are the messages typically defined in	JSON – Java Script Object Notation
Why are RESTful services easily scalable	They are stateless and do not store data on the server.
What are Idempotent messages	Fully self contained... you can send the message as many times as you want and you will always get the same result. GET and PUT are idempotent, because it doesn't change the base of what is being done.
What are the methods available in REST	POST (insert), PUT (update), GET (read), DELETE, HEAD, OPTIONS
What is CRUD	Create, Read, Update, Delete
What are some of the most common HTTP response codes when working with REST services	200 – success 201 – created (success) 204 – No content (for a DELETE) 400 – Bad Request 401 – Unauthorized 403 – Forbidden 404 – Not found 500 – Internal Server Error 502 – Bad Gateway



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	503 – Service Unavailable
What is a URI	Uniform Resource Identifier – identifies the end point of a REST service
What is a resource	By exposing entities as a resource it allows clients to provide CRUD operations against them
Is REST secure?	It is not foundationally secure, but it can be made secure by using Spring Security
Is REST interoperable	Yes... it does not matter what language you use to create a REST service: Java, JavaScript, Python, C++
What does @RequestMapping do	Maps web requests to Spring Controller methods
What does @GetMapping do	Designates a method to invoke based upon a GET HTTP request of the end point
What does @PostMapping do	Designates a method to invoke based upon a POST HTTP request of the end point
What does @PathVariable do	An annotation that will designate a part of the URL as a variable to extract
What is @ResponseStatus and what is it used for	It is an annotation that allows Spring to return a specific HTTP error code and customized message.