**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.

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| **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  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, Java Script, 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. |