# Career Services Assignment 9 – API Flash Cards

**Points possible:** 50

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| Category | Criteria | % of Grade |
| Completeness | All requirements of the assignment are complete. | 100 |

**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 URI? | Uniform Resource Identifier. Used to identify a resource in the REST architecture. |
| What is URN? | Uniform Resource Name, one of two types of URI. It identifies the resource by means of a name that is both unique and persistent. |
| What is URL? | Uniform Resource Locator, one of two types of URI. Gets resource fetching information from its location. |
| What are HTTP Status codes? | Standardized codes that refer to the predefined status of a task at the server level. |
| What do 2xx status codes represent? | Successful responses. |
| What do 4xx status codes represent? | Client-side errors. |
| What do 5xx status codes represent? | Server-side errors. |
| What is CRUD? | Stands for Create, Read, Update, Delete, which are the most common HTTP Methods used for accessing resources. |
| Describe a GET. | Corresponds to Read in CRUD. It fetches a resource from the server and is essentially a read-only function. |
| Describe POST. | Corresponds to Create in CRUD. Used for creation of a new resource on the server. |
| Describe PUT. | Corresponds to Update in CRUD. Used to update or replace an existing resource on the server. |
| Describe DELETE. | Corresponds to Delete in CRUD. Used to delete a resource on the server. |
| What is REST and RESTful web service? | REST stands for Representational State Transfer and uses HTTP protocol for implementation. |
| What is SOAP? | SOAP stands for Simple Object Access Protocol and is a protocol used to implement web services. |
| How are SOAP and REST different? | REST is an architectural design pattern, SOAP is a protocol. SOAP cannot use REST, but REST can make use of SOAP. |
| Which is faster, SOAP or REST. | Rest is faster. |
| What is AJAX? | AJAX stands for Asynchronous javascript and XML. |
| How are REST and SOAP different? | AJAX is dynamic and can update UI based on javascript code interpretation without the need to reload a page. REST requires interaction between client and server, AJAX is asynchronous, and therefore can operate without constant interaction between client and server. |
| What are the 5 core components of an HTTP request? | Method/Verb, URI, HTTP Version, Request Header, Request Body |
| What are the 4 components of an HTTP response? | Response Status Code, HTTP Version, Response Header, Response Body. |