# 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 HTML, CSS, and AJAX 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 HTML | HTML is the abbreviation for Hypertext Markup Language. It is the typical documents’ markup language for developing web pages to display on the web browser.  The extensions used to save HTML pages are .html and .htm |
| What is a Tag in HTML? | In an HTML page, tags used are to place the content and format the pages. They always defined between (<) and (>) symbols. For example, <h1>text</h1>.  An opening tag must be preceded with a closing tag and indicated with a ‘/’ symbol.  A tag instructs the browser to format the HTML. Tags have many uses, such as changing the appearance of text, displaying a graphic, or linking another page. |
| What is the key difference between HTML Elements and Tags? | HTML Elements  The sections of the web page, such as a paragraph, an image, or a link is an element, and an element has a certain way of execution. For example, the link is used to be clicked, and the text boxes can be used to input text.  HTML Tags  HTML elements communicate with the browser how to represent the text and become HTML tags when enclosed within angular brackets <>. |
| What is an Anchor tag in HTML? | An anchor tag is used to link two sections, web pages, or website templates in HTML.  Its format is:  <a href=”#” target=”link”></a>  Where ‘href’ is an attribute of the anchor tag used to identify the sections in a document, the ‘link’ is defined in the target attribute, which is to be linked. |
| What are Lists in HTML? | HTML lists are used to group a set of related items in lists. It is defined with an <li> tag.  Some commonly used HTML lists:  Ordered List (HTML tag: <ol>)  Unordered List (HTML tag: <ul>)  Description List (HTML tag: <dl>)  Menu List (HTML tag: <menu>)  Directory List (HTML tag: <dir>) |
| What is the Use of Comments in HTML? | Comments are used in an HTML document to make important notes and help developers mention any modification to be incorporated afterward. They are not displayed in the browser when the code is executed. A comment is always written in between the ‘—‘ symbol at the beginning and end of the angular brackets.  Syntax:  <!—‘Comment’ !–> |
| What is the Box model in CSS? Which CSS properties are a part of it? | A rectangle box is wrapped around every HTML element. The box model is used to determine the height and width of the rectangular box. The CSS Box consists of Width and height (or in the absence of that, default values and the content inside), padding, borders, margin.  Content: Actual Content of the box where the text or image is placed.  Padding: Area surrounding the content (Space between the border and content).  Border: Area surrounding the padding.  Margin: Area surrounding the border. |
| What are the advantages of using CSS? | Separation of content from presentation - CSS provides a way to present the same content in multiple presentation formats in mobile or desktop or laptop.  Easy to maintain - CSS, built effectively can be used to change the look and feel complete by making small changes. To make a global change, simply change the style, and all elements in all the web pages will be updated automatically.  Bandwidth - Used effectively, the style sheets will be stored in the browser cache and they can be used on multiple pages, without having to download again. |
| How to include CSS in the webpage? | <link rel="stylesheet" type="text/css" href="mystyles.css" />  In-Line Styling  <style type="text/css">  /\*Add style rules here\*/  </style> |
| What are the different types of selectors in CSS? | ID -  #container {  width: 960px;  margin: 0 auto;  }  <div id="container"></div>  Class –  .box {  padding: 10px;  margin: 10px;  width: 240px;  }  <div class="box"></div> |
| Is it important to test the webpage in different browsers? | It’s most important to test a website in different browsers when you’re first designing it, or when making major changes. However, it’s also important to repeat these tests periodically, since browsers go through a lot of updates and changes. |
| What is Ajax? | Ajax is abbreviated as Asynchronous Javascript and XML. It is new technique used to create better, faster and more interactive web systems or applications. Ajax uses asynchronous data transfer between the Browser and the web server.  This technique is used to make internet faster and user friendly. It is not a programming language. |
| What are Ajax applications? | Browser based applications and platform independent applications are used by Ajax. |
| What are all the controls of Ajax? | ScriptManager  ScriptManagerProxy  UpdatePanel  UpdateProgress  Timer |
| What are the advantages of Ajax | Bandwidth utilization – It saves memory when the data is fetched from the same page.  More interactive  Speeder retrieval of data |
| What is update panel? | Update panel is a server control used to update the specified portion of a web page. Script Manager needs to be used whenever update panel is used. Using update panel, user cannot handle outside controls. |
| Which are the two methods used for cross domain Ajax calls? | CORS – Cross Origin Resource Sharing and it works with the HTTP web browsers  JSONP – JSON with Padding which works with the HTTP GET and on legacy browsers |
| What are all the technologies used by Ajax? | AJAX uses following technologies:  JavaScript  XMLHttpRequest  Document Object Model (DOM)  Extensible HTML (XHTML)  Cascading Style Sheets (CSS) |
| What is the Document Object Model? | The Document Object Model (DOM) is an application programming interface (API) for HTML and XML documents. It defines the logical structure of documents and the way a document is accessed and manipulated. In the DOM specification, the term "document" is used in the broad sense - increasingly, XML is being used as a way of representing many different kinds of information that may be stored in diverse systems, and much of this would traditionally be seen as data rather than as documents. Nevertheless, XML presents this data as documents, and the DOM may be used to manage this data. |
| n what scenarios jQuery can be used? | Apply CSS static or dynamic  Calling functions on events  Manipulation purpose  Mainly for Animation effect |
| What is the use of each function in jQuery? | Each function is used to iterate each and every element of an object. It is used to loop DOM elements, arrays and the object properties. |
| Is jQuery is a client or server scripting? | jQuery is a client scripting. |
| What is an API? | API is the acronym for Application Programming Interface, which is a software intermediary that allows two applications to talk to each other. Each time you use an app like Facebook, send an instant message, or check the weather on your phone, you’re using an API. |