Notes.md 2/13/2020

CBT - 1

XML HttpRequest

- Update a web page without reloading the page
- Request data from a server after the page has loaded
- Receive data from a server after the page has loaded
- Send data to a server in the background
- The responseText property returns the server response as a text string.

Window.history

• The window.history object contains the browsers history.

Javascript Basics

Javascript Objects: A JavaScript object is a collection of named values

- A primitive value is a value that has no properties or methods
- JavaScript variables can contain single values: var person = "John Doe"; // All strings are objects
- The values are written as name: value pairs (name and value separated by a colon).: var person = {firstName: "John", lastName: "Doe", age:50, eyeColor: "blue"};
- Methods are actions that can be performed on objects
- Objects are mutable: They are addressed by reference, not by value. var person = {firstName:"John", lastName:"Doe", age:50, eyeColor:"blue"}

```
var x = person;
x.age = 10;  // This will change both x.age and person.age
```

- You can add new properties to an existing object by simply giving it a value.
- Delete Keyword
 - The delete keyword deletes a property from an object:
 var person = {firstName:"John", lastName:"Doe", age:50, eyeColor:"blue"};
 delete person.age; // or delete person["age"];
 - The delete keyword deletes both the value of the property and the property itself.
 - After deletion, the property cannot be used before it is added back again.

Notes.md 2/13/2020

• The delete operator is designed to be used on object properties. It has no effect on variables or functions.

- The delete operator should not be used on predefined JavaScript object properties. It can crash your application.
- The delete keyword does not delete inherited properties, but if you delete a prototype property, it will affect all objects inherited from the prototype.
- The call() and apply() methods are predefined JavaScript methods.

```
var person1 = {
fullName: function() {
return this.firstName + " " + this.lastName;
}
}
var person2 = {
firstName:"John",
lastName: "Doe",
}
person1.fullName.call(person2); // Will return "John Doe"
whenever you want to invoke an other objects methods on an abject you invoke call() or apply()
```

- AJAX = Asynchronous JavaScript And XML.
 - A browser built-in XMLHttpRequest object (to request data from a web server)
 - JavaScript and HTML DOM (to display or use the data)
 - XML Http Request
 - Holds the status of the XMLHttpRequest.
 - 0: request not initialized
 - 1: server connection established
 - 2: request received
 - 3: processing request
 - 4: request finished and response is ready