**eBay Web Scraping**

**Summary**

Our final project employed us to utilize web scraping techniques in order to extract large amounts of data from websites, whereby it would be displayed in a table (spreadsheet) format. Our particular research was focused on extracting data about Samsung cell phones from the website eBay. We had to implement our knowledge of the DOM interface to integrate JavaScript and JQuery tactics in order to achieve our goal. Our end result showcases details of Samsung cell phones that are available on eBay. These details include:

- Phone Title

- Seller Information

- Feedback (Rating)

- Phone Price

- Phone Condition

- Additional Phone Specifics

**Functionality**

First visit eBay.com and enter “Samsung cell phones” into the search bar. From there you will be able to run the code, achieving a console log table format of the provided data from eBay. Initially, the amount of data will be set to “50” items per page, which is the default eBay setting, and is the quickest option for time purposes. To gather more data, you will need to change the “items per page” (located near the bottom) to “200.” Re-run the same code which will then extract all 200 displayed entries from the first page, and will continue doing so for the next 10 provided pages.

**Code**

var myData;

var pageNumber = $("li.x-pagination\_\_li a").length;

var pageArray = [];

var arrayResult = [];

var endofrow ="\*";

var urlLength = $("ul.srp-results a.s-item\_\_link").length;

var myLinks = [];

for(i=0;i<pageNumber;i++){

pageArray.push($("li.x-pagination\_\_li a")[i].href);

};

for(var item in pageArray){

for(i=0;i<urlLength;i++){

myLinks.push($("ul.srp-results a.s-item\_\_link")[i].href);

};

};

console.log(myLinks);

function getURL(url){

return $.ajax({

type: "GET",

url: url,

cache: false,

async: false

}).responseText;

}

for(i=0;i<myLinks.length;i++){

myData = getURL(myLinks[i]);

var lineResult =

[

$(myData).find('h1.it-ttl').text().trim(), //name

$(myData).find('span.mbg-nw').text().trim(), //seller info title

$(myData).find('div#si-fb').text().trim(), //feedback

$(myData).find('div.u-cb span.notranslate').text().trim(), // price

$(myData).find('div.u-flL.condText').text().trim(), //condition

$(myData).find('div.section td:nth-of-type(4) span').text().trim(), // Items Specifics

endofrow

];

arrayResult.push(lineResult);

};

console.table(arrayResult);