**Motorcycle-superstore.com:**

**Estimated time to complete the site: 2 Days**

Challenges: Site has complexity to get the product details because details page has dropdown list for product price by size where the links are not available and all the calls are post.

\*\*\* Need some more time to figure out how to implement the site to get product details by product size.

**Tires 🡺**

1. Landing Page: Landing page is the home page of the site from home page it is possible to get the main categories of product type such as Tires, Parts etc.

-- Url: <http://www.motorcycle-superstore.com/>

Page content: Page contains main categories

Page Type: Category page

Capture Category urls such as tires/Oem parts

1. Category (Tires) Url: <http://www.motorcycle-superstore.com/123/mngr/motorcycle-tires.aspx>

Request Type: Get

This url would be captured from the home page (SL:1).

Page Content: This page contains category urls of different types of tires for different types of motorcycles. From this page it is possible to get all the categories of different types of motorcycles

Page Type: Category Page

Capture category links of different type of tires

1. Single type of tires Url: <http://www.motorcycle-superstore.com/121/d/street-bike-sport-touring-tires>

-- The above url would be captureD from the Tires category page (SL: 2)

Page content: Page contains the list of product (tires) with detail links, pagination available

Details url would be captured from this page.

Page Type: List page

Next Page Url: <http://www.motorcycle-superstore.com/121/d/street-bike-sport-touring-tires?p=3>

Request Type: Get

\*\*\* Need to treat list page as category page so that details page can be treated as list page and each link of product size would be treated as detail page.

Url Example of Product details by size:

Request type: Post

Url available on the page:

<http://www.motorcycle-superstore.com/41865/i/michelin-commander-ii-cruiser-front-tire>

<http://www.motorcycle-superstore.com/41865/i/michelin-commander-ii-cruiser-front-tire>

<http://www.motorcycle-superstore.com/41865/i/michelin-commander-ii-cruiser-front-tire>

**Post Parameters call to get product by it’s size:**

**Constant parameters:**

ctl00$ScriptManager1 = ctl00$ContentPlaceHolder1$ItemInfoUpdatePanel|ctl00$ContentPlaceHolder1$sizeSelector$ctl00$btnSizeSwatch

**Dynamic Parameters:**

\_\_EVENTVALIDATION 🡺 Available in Details page

ctl00$ContentPlaceHolder1$txtQuantity 🡺 available in Detail page

ctl00$ContentPlaceHolder1$ddlSort

ctl00$ContentPlaceHolder1$hidIsModalPopup

ctl00$ContentPlaceHolder1$hidGoToAddedToCart

\*\*

This parameters name and value both has to be captured and update dynamically

hdnRequestUrlReferrer http://www.motorcycle-superstore.com/121/d/street-bike-sport-touring-tires?p=3&\_\_ASYNCPOST=true&ctl00$ContentPlaceHolder1$sizeSelector$ctl00$btnSizeSwatch=180/55ZR-17%2073W

ctl00$ScriptManager1 ctl00$ContentPlaceHolder1$ItemInfoUpdatePanel|ctl00$ContentPlaceHolder1$sizeSelector$ctl00$btnSizeSwatch

ctl00$ContentPlaceHolder1$txtQuantity 1

ctl00$ContentPlaceHolder1$sizeSelector$ctl00$btnSizeSwatch 130/70R-17

ctl00$ContentPlaceHolder1$hidIsModalPopup 0

ctl00$ContentPlaceHolder1$hidGoToAddedToCart 1

\_\_VIEWSTATE guCli7O76ZT8dGauBs74h+XfPKqxa+FzZJ11E7K2/ENQN4k20hfeK1lp1XwfoLwpgy6boAKM26GLuSuxi18DbuXd4fJLlewQ2tJ4s+jhEizeXYnw2TlwHZnEBAayErxz00jcMFViga2YQ8pdPIzFDvXNNoxuXq4iLvOW2DyB0vMNaCxxCnPWunRPGZjuKFxocSoG04UpZ82ZjI1GXqH+ …………………………

\_\_ASYNCPOST true

Comment: Need to build url and capture post parameters dynamically from the page, need some time to find out all the mandatory post parameters from the category/list page.

**OEM Parts** 🡺

1. Landing Page

Url <http://www.motorcycle-superstore.com/227/mngr/motorcycle-parts.aspx>

Request Type : Get

Page Content: category links of OEM by brands

Page type: category page

Capture : category links of different brand’s OEM

1. OEM individual brand link

Url: <http://www.motorcycle-superstore.com/791/mngr/honda-motorcycle-parts.aspx>

Request Type: GET

This link would be captured from the (SL1) landing page

Page content: list of category links of different types of parts

Pate Type : Category page

Capture category links of parts type

1. Individual parts type

Url: <http://www.motorcycle-superstore.com/316/mngr/motorcycle-filters.aspx>

Request type: Get

Page content: page contains links of parts of chosen type from the above link (SL 2)

Page type: Category page

Capture links of category links of manufacturer brand of the parts type

1. Individual product type of same brand

Url : <http://www.motorcycle-superstore.com/10984767/d/k-n-motorcycle-filters>

Request type: Get

Page content: Page contains list of products with details link

Page Type: List page

Capture list information and details link

1. Details page

Url: <http://www.motorcycle-superstore.com/6569/i/k-n-high-flow-replacement-air-filter>

Page contains : Details of one product but need to select year/make and model to get the product price by model.

\*\*\* Need to make post call by dynamically selecting post parameters

\*\*\* Product Maf.ID is available after making post call

\*\*\* Each time when we choose one option from dropdown list it makes ajax call to load list of other dropdown list

Details page structure of OEM parts are different page contains dropdown list to find the price of exact product by model/maker/year

Example Url: <http://www.motorcycle-superstore.com/28180/i/yuasa-maintenance-free-battery>

Need post call to choose exact product by model from Detail Page.

🡪 On the details page where parts are not related by model/year/maker then price are show on the details page directly.

\*\*\* Need to find solution to get exact product details by product size.

**Available Common Fields are:**

Title:

Price:

Previous Price:

Image:

Size:

Rating:

Shipping information:

Item ID:

SKU:

Mfr. Part Number (which is same for the same product on other site)

**Issues of scraping the site:**

**Tires 🡺**

1. Details page contains multiple items (by product size)
2. Details page don’t have the urls available for product of different sizes
3. From details page need to make post calls to get the html for each product
4. Product Mfr.Part number is available only after making post call for each product size

**Proposed Solution:**

Need to treat Details page as list page

Land on List page

Get items of list page

Capture Details of a Item iPageProcessor for a Item

Detail\_Url available?

No

Mandatory Field missing?

Yes

Call AllocatedPageProcessor by passing Detail\_Url

Treat Detail\_url html as List page

Build Url for post call

Get Html for Detail\_Url

Call GetDetailsPageResults

OrganizeAndSaveResults

**OEM Parts 🡺**

1. Details page contains multiple items (by product size)
2. Details page don’t have the urls available for product of different model (year/make/model)
3. There are three dropdown list available for Year, Make and Model
4. Once Year is selected for dropdown list it makes call to load the list of Make and then when Make is chosen it loads model of the product.
5. After choosing model it loads product details

**Propose Solution:**

-- Need to support ajax call and build dynamic urls

-- Need to capture multiple list of items from different places of same pate and need to group those multiple list of items

**Example:**

Need to make 1 or more calls to get all the list value of dropdown lists

All dropdown list items can be available on the same page or can be found for individual calls.

If we think for each call we get a list of items (from dropdown list) like first call to get all the years, second call to get all the Make and third call to get all the models.

Once we have all three list ready then we can build post urls by using one item from 3 different list.

Dictionary<1,List<KVP<string,string>>> list\_of\_first\_call

Dictionary<2,List<KVP<string,string>>> list\_of\_Second\_call

Dictionary<3,List<KVP<string,string>>> list\_of\_Third\_call

Then using above list we can build post urls with Parameters

Dictionary<stirng,List<KVP<string,string>>>

First string value will be the url itself, and list will contain the three parameters (which will be picked for above 3 dictionaries by taking one KVP from each dictionary.

Then we can use this dictionary (Dictionary<stirng,List<KVP<string,string>>> ) to build url which would be dynamic.