**Marks & Spencer**

MODELLING & PROTOTYPING TEST

FRONT END ENGINEERING -

This test is divided into two sections. Modelling, and Aptitude respectively.

Using notes from the “**ESSENTIAL SKILLS”** and “**HIGHLY DESIRABLE**” in the job specification (attached), answer **all questions in part A** , and **one more question from Part B** .

The prototype should be functional and take up to a day and half to complete. The Aptitude Test will be done on-site.

There will be chance for you to explain your choice of approach for the modelling tasks, including attention to detail, if you get to the next stage. You will not be penalized for insufficient decoration (design). Plug-ins other than references to core library files should be avoided.

Please read the instructions for the exercises carefully.

When you have completed, zip up all your files in to one single folder and send to your Recruitment Consultant.

**Part A: Compulsory**

**1i.**  Write a minimum amount of **native** JavaScript that will reveal and change the large Image. By clicking its associated thumbnails . Replace with your own images.

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />

<title>Image Cycler</title>

<link rel="stylesheet" type="text/css" href=" https://raw.githubusercontent.com/lucatrincauk/test/master/img-replacement.css

">

</head>

<body>

<h2>Gallery</h2>

<p><img id="largeImg" src="images/img1-lg.jpg" alt="Large image" /></p>

<p class="thumbs">

<a href="images/img2-lg.jpg" title="Image 2">

<img src="images/img2-thumb.jpg" />

</a>

<a href="images/img3-lg.jpg" title="Image 3">

<img src="images/img3-thumb.jpg" />

</a>

<a href="images/img4-lg.jpg" title="Image 4">

<img src="images/img4-thumb.jpg" />

</a>

<a href="images/img5-lg.jpg" title="Image 5">

<img src="images/img5-thumb.jpg" />

</a>

<a href="images/img6-lg.jpg" title="Image 6">

<img src="images/img6-thumb.jpg" />

</a>

</p>

</body>

</html>

**i**i Extend and refine the above question by setting up a JSON file for the images and rendering the data, by optimising the script.

**iii.** Add navigation buttons to the sides of the container id=largeImg to cycle through the larger thumbnails.

**2.** Develop an HTML5 video application with native controls enabled. Secondly, extend this application to use JavaScript to remove the native controls and add your own custom controls without changing the application’s execution.

**Part B**

Using one of the two structured data models below, demonstrate your proficiency in AngularJS by developing one of the three applications mentioned further at the bottom of the two exercises.

1

Subscribe to M&S Feed

Category: Women  
Sub-category: Clothing

Item: Party wear - Front Leather Panelled Ponte Treggings

Price: £159.00

Category: Beauty  
Sub-category: Skincare

Item: Aptiva - Wine Elixir Night Cream

Price: £79.00

Category: Men  
Sub-category: Suits & Tailoring

Item: Sartorial – Slim Fit Luxury Pure Cotton Rib Striped Shirt

Price: £39.50

Category: Kids  
Sub-category: Toys & Games

Item: Boys Stuff - Top Secret

Price: £5.00

Category: Food & Wine  
Sub-category: Wines, Beers & Spirit

Item: Exclusive to Order - Arriero Carmenere (case of 6)

Price: £53.94

Category: Flowers & Gifts  
Sub-category: Flowers & Hampers

Item: New Baby - Dog Comfort Toy

2

Subscribe to M&S Feed

<html ng-app>   
   <head>  
    <title>Your Shopping Cart</title>  
   </head>  
  <body ng-controller='CartController'>  
    <h1>Your Shopping Cart</h1>  
    <div ng-repeat='item in items'>  
     <span>{{item.}}</span>

<span>{{item.}}</span>

<span>{{item.}}</span>  
<span>{{item.}}</span>

<span>{{item.}}</span>  
 <input ng-model='item.quantity'>  
 <span>{{item. | currency}}</span>  
  <span>{{item. \* item.quantity | currency}}</span>  
  <button ng-click=" ">Remove</button>

</div>  
  <script>  
    function CartController($scope) {  
     $scope.items =[

{

"category": "Women",

"subcat": "Clothing",

"item": "Party wear - Front Leather Panelled Ponte Treggings",

"price": "159.00",

"quantity":6,

"uid": 1

},

{

"category": "Women",

"subcat": "Clothing",

"item": "Speziale Italian Cupro Draped Bodycon Dress",

"price": "89.00",

"quantity":3,

"uid": 2

},

{

"category": "Beauty",

"subcat": "Skincare",

"item": "Aptiva - Wine Elixir Night Cream",

"price": "79.00",

"quantity":2,

"uid": 3

},

{

"category": "Men",

"subcat": "Suits & Tailoring",

"item": "Sartorial – Slim Fit Luxury Pure Cotton Rib Striped Shirt",

"price": "39.50",

"quantity":10,

"uid": 4

},

{

"category": "Men",

"subcat": "Jeans",

"item": "Big & Tall Washed Look Bootleg Denim Jeanst",

"price": "25.00",

"quantity":1,

"uid": 5

}

]  
      $scope.remove = function(index) {  
      $scope.items.splice(index, 1);  
     }  
 }  
   </script>  
  </body>  
</html>

1. A Touch Carousel
2. Single Page Application
3. E-Commerce Add to Basket Application