



Representational State Transfer (REST)  
Application Programming Interface (API):  
Makana Apps Factory (MAF) E-commerce  
Mobile Application

Version 1.1

30 October 2014

Compiled by: Mosiuoa Tsietsi, Mamello Thinyane, Kevin Duff

## API Routes

REST Route	Description
<p>Adds a new Product to the catalogue</p> <p><b>Request URI: POST /product</b>  <b>Request Format: application/json</b>  <b>Body:</b></p> <pre>{   "id" : "100",   "name" : "Bracelet",   "description" : "Nice",   "imga" : "0",   "imgb" : "0",   "imgc" : "0",   "imgd" : "0",   "image" : "0",   "price" : "67.50",   "quantity" : "5",   "shop" : "9",   "weight" : "3",   "category" : "2",   "added" : "09-05-2014",   "modified" : "10-05-2014" }</pre>	<p>Returns a JSON object with the newly generated product ID along with the original ID sent by the client.</p> <p><b>Response Code: 200</b>  <b>Response Format: application/json</b>  <b>Body:</b></p> <pre>{   "productId" : "162621828",   "oldId" : "100" }</pre> <p><b>Error Code: 406 Unacceptable</b>  <b>Response Format: application/json</b>  <b>Body:</b></p> <pre>{   "message" : "error" }</pre>
<p>Adds new Products to the catalogue</p> <p><b>Request URI: POST /products</b>  <b>Request Format: application/json</b>  <b>Body:</b></p> <pre>[   {     "id" : "100",     "name" : "Bracelet",     ...   },   {     "id" : "101",     "name" : "Watch",     ...   },   {     "id" : "102",     "name" : "Calabash",     ...   } ]</pre>	<p>Returns a JSON array with the newly generated product IDs along with the original IDs sent by the client.</p> <p><b>Response Code: 200 OK</b>  <b>Response Format: application/json</b>  <b>Body:</b></p> <pre>[   {     "productId" : "162621828",     "oldId" : "100"   },   {     "productId" : "128281912",     "oldId" : "101"   },   {     "productId" : "120201912",     "oldId" : "102"   } ]</pre> <p><b>Error Code: 406 Unacceptable</b>  <b>Response Format: application/json</b>  <b>Body:</b></p> <pre>{   "message" : "error" }</pre>

	}
<p>Modify an existing Product</p> <p><b>Request URI:</b> PUT /product</p> <p><b>Request Format:</b> application/json</p> <p><b>Body:</b></p> <pre>{   "productId" : "120201912",   "name" : "Gold Bracelet",   ... }</pre>	<p>Returns a response code</p> <p><b>Response Code:</b> 200 OK</p> <p><b>Response Format:</b> None</p> <p><b>Body:</b> None</p> <p><b>Error Code:</b> 406 Unacceptable</p> <p><b>Response Format:</b> None</p> <p><b>Body:</b> None</p>
<p>Upload a Product image</p> <p><b>Request URI:</b> PUT /productImage/{productId}</p> <p><b>Request Format:</b> multipart/form-data</p> <p><b>Body:</b></p> <p>imga imagea.png</p> <p>imgb imageb.png</p> <p>imgc imagec.png</p> <p>imgd imaged.png</p> <p>imge imagee.png</p>	<p>Returns a JSON array with the product IDs and associated image IDs</p> <p><b>Response Code:</b> 200 OK</p> <p><b>Response Format:</b> application/json</p> <p><b>Body:</b></p> <pre>[   {     productId : "129291912",     imga : "1121221912"   },   {     productId : "129291912",     imgb : "10202019121"   },   {     productId : "129291912",     imgc : "122991912"   },   {     productId : "129291912",     imgd : "11922911221"   },   {     productId : "129291912",     imge : "122291919"   } ]</pre> <p><b>Error Code:</b> 406 Unacceptable</p> <p><b>Response Format:</b> application/json</p> <p><b>Body:</b></p> <pre>{   "message" : "error" }</pre>
<p>Retrieve a product from the catalogue</p> <p><b>Request URI:</b> GET /product/{productId}</p> <p><b>Request Format:</b> None</p> <p><b>Body:</b> None</p>	<p>Returns a JSON object with full product details</p> <p><b>Response Code:</b> 200 OK</p> <p><b>Response Format:</b> application/json</p> <p><b>Body:</b></p>

	<pre>{   "productId" : "100",   "name" : "Bracelet",   ... }</pre> <p><b>Error Code: 406 Unacceptable</b>  <b>Response Format: application/json</b>  <b>Body:</b></p> <pre>{   "message" : "error" }</pre>
<p>Retrieve all Products from the catalogue</p> <p><b>Request URI: GET /products</b>  <b>Request Format: None</b>  <b>Body: None</b></p>	<p>Returns a JSON array with full product details</p> <p><b>Response Code: 200 OK</b>  <b>Response Format: application/json</b>  <b>Body:</b></p> <pre>[   {     "productId" : "12119191",     "name" : "Bracelet",     ...   },   {     "productId" : "1219191129",     "name" : "Watch",     ...   },   {     "productId" : "1291912912",     "name" : "Calabash",     ...   } ]</pre>
<p>Retrieve a Product image</p> <p><b>Request URI: GET /productImage/{productId}/{imageId}</b>  <b>Body: None</b></p>	<p>Returns image data</p> <p><b>Response code: 200 OK</b>  <b>Response Format: image/png</b>  <b>Body: image data</b></p> <p><b>Error Code: 404 Not Found</b>  <b>Response Format: None</b>  <b>Body: None</b></p>
<p>Remove a product from the catalogue</p> <p><b>Request URI: DELETE /product</b>  <b>Request Format: application/json</b>  <b>Body:</b></p> <pre>{</pre>	<p>Returns a response code</p> <p><b>Response Code: 200 OK</b>  <b>Response Format: None</b>  <b>Body: None</b></p> <p><b>Error Code: 406 Unacceptable</b></p>

<pre> "productId" : "129291912", "name": "Bracelet", ... } </pre>	<b>Response Format: None</b> <b>Body: None</b>
Remove a product from the catalogue  <b>Request URI: DELETE /product/productId</b> <b>Request Format: None</b> <b>Body: None</b>	Returns a response code  <b>Response Code: 200 OK</b> <b>Response Format: None</b> <b>Body: None</b>  <b>Error Code: 406 Unacceptable</b> <b>Response Format: None</b> <b>Body: None</b>
Add an order for a Product  <b>Request URI: /order</b> <b>Request Format: application/json</b> <b>Body:</b>  <pre> {   "id" : "100",   "productId" : "129291912",   "status" : "3" } </pre>	Returns a JSON object with an obtained orderId along with the original ID sent by the client  <b>Response Code: 200 OK</b> <b>Response Format: application/json</b> <b>Body:</b>  <pre> {   "orderId" : "1122219919",   "oldId" : "100" } </pre>
Update an order for a Product  <b>Request URI: /order</b> <b>Request Format: application/json</b> <b>Body:</b>  <pre> {   "id" : "1122219919",   "productId" : "129291912",   "status" : "3" } </pre>	Returns a JSON object with an obtained order ID along with the original ID sent by the client.  <b>Response Code: 200 OK</b> <b>Response Format: application/json</b> <b>Body:</b>  <pre> {   "orderId" : "100",   "oldId" : "100" } </pre> <b>Error Code: 406 Unacceptable</b> <b>Response Format: application/json</b> <b>Body:</b>  <pre> {   "error" : "message" } </pre>
Retrieve all orders  <b>Request URI: GET /orders</b> <b>Request Format: None</b> <b>Body: None</b>	Returns a JSON array with all order details  <b>Response Code: 200 OK</b> <b>Response Format: application/json</b> <b>Body:</b>  <pre> [ </pre>

	<pre>{   "orderId" : "12119191",   "productId" : "1211221129",   "quantity" : "4" ... }, {   "orderId" : "12119191",   "productId" : "1211221129",   "quantity" : " 1", ... }, {   "orderId" : "12119191",   "productId" : "1211221129",   "quantity" : "5", ... }, ]</pre>
--	---