

Representational State Transfer (REST)

Application Programming Interface (API):

Makana Apps Factory (MAF) E-commerce Mobile Application

**Version 1.1**

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**Compiled by: Mosiuoa Tsietsi, Mamello Thinyane**

# API Routes

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| REST Route | Description |
| Adds a new Product to the catalogue  Request URI: POST /product  Request Format: application/json  Body:  {  “id” : ”100”,  “name” : ”Bracelet”,  “description” : ”Nice”,  “imga” : “0”,  “imgb” : “0”,  “imgc” : “0”,  “imgd” : “0”,  “imge” : “0”,  “price” : “67.50”,  “quantity” : “5”,  “shop” : “9”,  “weight” : “3”,  “category” : “2”,  “added” : “09-05-2014”,  “modified”: “10-05-2014”  } | Returns a JSON object with the newly generated product ID along with the original ID sent by the client.  **Response Code: 200**  **Response Format: application/json**  **Body:**  {  “productId” : “162621828”,  “oldId” : “100”  }  **Error Code: 406 Unacceptable**  **Response Format: application/json**  **Body:**  {  “message” : “error”  } |
| Adds new Products to the catalogue  Request URI: POST /products  Request Format: application/json  Body:  [  {  “id” : ”100”,  “name” : ”Bracelet”,  …  },  {  “id” : ”101”,  “name” : ”Watch”,  …  },  {  “id” : ”102”,  “name” : ”Calabash”,  …  }  ] | Returns a JSON array with the newly generated product IDs along with the original IDs sent by the client.  **Response Code: 200 OK**  **Response Format: application/json**  **Body:**  [  {  “productId” : “162621828”,  “oldId” : “100”  },  {  “productId” : “128281912”,  “oldId” : “101”  },  {  “productId” : “120201912”,  “oldId” : “102”  }  ]  **Error Code: 406 Unacceptable**  **Response Format: application/json**  **Body:**  {  “message” : “error”  } |
| Modify an existing Product  Request URI: PUT /product  Request Format: application/json  Body:  {  “id” : ”100”,  “name” : ”Bracelet”,  …  } | Returns a response code  **Response Code: 200 OK**  **Response Format: None**  **Body: None**  **Error Code: 406 Unacceptable**  **Response Format: None**  **Body: None** |
| Modify an existing Product  Request URI: PUT /product/{productId}  Request Format: application/json  Body:  {  “name” : ”Red Bracelet”,  …  } | Returns a response code  **Response Code: 200 OK**  **Response Format: application/json**  **Body: None**  **Error Code: 406 Unacceptable**  **Response Format: None**  **Body: None** |
| Upload a Product image  Request URI: PUT /uploadImage/{productId}  Request Format: multipart/form-data  Body:  imga imagea.png  imgb imageb.png  imgc imageb.png  imgd imageb.png  imge imageb.png | Returns a JSON array with the product IDs and associated image IDs  **Response Code: 200 OK**  **Response Format: application/json**  **Body:**  [  {  productId : “129291912”,  imga : “1121221912”  },  {  productId : “129291912”,  imgb: “10202019121  },  {  productId : “129291912”,  imgc: “122991912”  },  {  productId : “129291912”,  imgd: “11922911221”  },  {  productId : “129291912”,  imge: “122291919  }  ]  **Error Code: 406 Unacceptable**  **Response Format: application/json**  **Body:**  {  “message” : “error”  } |
| Upload or replace a Product image  Request URI: PUT /uploadImage/productId/imageId  Request Format: multipart/form-data  Body:  imga image.png | Returns a response code  **Response Code: 200 OK**  **Response Format: None**  **Body: None**  **Error Code: 406 Unacceptable**  **Response Format: None**  **Body: None** |
| Retrieve a product from the catalogue  Request URI: GET /product/{productId}  Request Format: None  Body: None | Returns a JSON object with full product details  **Response Code: 200 OK**  **Response Format: application/json**  **Body:**  {  “productId” : ”100”,  “name” : ”Bracelet”,  …  }  **Error Code: 406 Unacceptable**  **Response Format: application/json**  **Body:**  {  “message” : ”error”  } |
| Retrieve all Products from the catalogue  Request URI: GET /products  Request Format: None  Body: None | Returns a JSON array with full product details  **Response Code: 200 OK**  **Response Format: application/json**  **Body:**  [  {  “productId” : ”12119191”,  “name” : ”Bracelet”,  …  },  {  “productId” : ”1219191129”,  “name” : ”Watch”,  …  },  {  “productId” : ”1291912912”,  “name” : ”Calabash”,  …  }  ] |
| Retrieve a Product image  Request URI: GET /productImage/{productId}/{imageId}  Body: None | Returns image data  **Response code: 200 OK**  **Response Format: image/png**  **Body: image data**  **Error Code: 404 Not Found**  **Response Format: None**  **Body: None** |
| Remove a product from the catalogue  Request URI: DELETE /product  Request Format: application/json  Body:  {  “productId” : “129291912”,  “name”: “Bracelet”,  …  } | Returns a response code  **Response Code: 200 OK**  **Response Format: None**  **Body: None**  **Error Code: 406 Unacceptable**  **Response Format: None**  **Body: None** |
| Remove a product from the catalogue  Request URI: DELETE /product/productId  Request Format: None  Body: None | Returns a response code  **Response Code: 200 OK**  **Response Format: None**  **Body: None**  **Error Code: 406 Unacceptable**  **Response Format: None**  **Body: None** |
| Update an order for a Product  Request URI: /order  Request Format: application/json  Body:  {  "id" : "100",  "status" : "3"  } | Returns a JSON object with an obtained order ID along with the original ID sent by the client.  **Response Code: 200 OK**  **Response Format: application/json**  **Body:**  {  "orderId" : "100",  "oldId" : "100"  }  **Error Code: 406 Unacceptable**  **Response Format: application/json**  **Body:**  {  "error" : "message"  } |
| Update an order for a Product  Request URI: /order/orderId/status  Request Format: application/json  Body:  {  "id" : "100",  "status" : "4",  "quantity" : "1"  } | Returns a JSON object with an obtained order ID along with the original ID sent by the client.  **Response Code: 200 OK**  **Response Format: application/json**  **Body:**  {  "orderId" : "100",  "oldId" : "100"  }  **Error Code: 406 Unacceptable**  **Response Format: application/json**  **Body:**  {  "error" : "message"  } |
| Retrieve all orders  Request URI: GET /orders  Request Format: None  Body: None | Returns a JSON array with all order details  **Response Code: 200 OK**  **Response Format: application/jsosn**  **Body:**  [  {  “orderId” : ”12119191”,  "productId" : "1211221129",  "quantity" : "4"  …  },  {  “orderId” : ”12119191”,  "productId" : "1211221129",  "quantity" : " 1",  …  },  {  “orderId” : ”12119191”,  "productId" : "1211221129",  "quantity" : "5",  …  },  ] |