

Representational State Transfer (REST)

Application Programming Interface (API):

Makana Apps Factory (MAF) Tourism Mobile Application

**Version 1.1**

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# API Routes

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| REST Route | Description |
| Adds a new BnB to the catalogue  Request URI: POST /bnb  Request Format: application/json  Body:  {  “id” : ”100”,  “name” : ”Moses Ngubane”,  “description” : ”Nice”,  “imga” : “0”,  “imgb” : “0”,  “imgc” : “0”,  “imgd” : “0”,  “imge” : “0”,  “latlng” : “32.516 23.456”,  “price” : “50”,  “available” : “yes”,  “breakfast” : “yes”,  “hotshower” : “yes”,  “braai” : “no”,  “self”: “yes”,  “tv”: “no”,  “tours”: “no”  } | Returns a JSON object with the newly generated bnb ID along with the original ID sent by the client.  **Response Code: 200**  **Response Format: application/json**  **Body:**  {  “bnbId” : “162621828”,  “oldId” : “100”  }  **Error Code: 406 Unacceptable**  **Response Format: application/json**  **Body:**  {  “message” : “error”  } |
| Adds new BnBs to the catalogue  Request URI: POST /bnbs  Request Format: application/json  Body:  [  {  “id” : ”100”,  “name” : ”Moses Ngubane”,  …  },  {  “id” : ”101”,  “name” : ”Theko Modise”,  …  },  {  “id” : ”102”,  “name” : ”Kevin Kepling”,  …  }  ] | Returns a JSON array with the newly generated bnb IDs along with the original IDs sent by the client.  **Response Code: 200 OK**  **Response Format: application/json**  **Body:**  [  {  “bnbId” : “162621828”,  “oldId” : “100”  },  {  “bnbId” : “128281912”,  “oldId” : “101”  },  {  “bnbId” : “120201912”,  “oldId” : “102”  }  ]  **Error Code: 406 Unacceptable**  **Response Format: application/json**  **Body:**  {  “message” : “error”  } |
| Modify an existing BnB  Request URI: PUT /bnb  Request Format: application/json  Body:  {  “bnbId” : ” 162621828”,  “name” : ”Moses Ngubane”,  …  “tours”: “no”  } | Returns a response object confirming the update  **Response Code: 200**  **Response Format: None**  **Body: None**  **Error Code: 406 Unacceptable**  **Response Format: application/json**  **Body:**  {  “message” : “error”  } |
| Modify an existing BnB  Request URI: PUT /bnb/{bnbId}  Request Format: application/json  Body:  {  “name” : ”Moses Ngubane”,  …  “tours”: “yes”  } | Returns a response object confirming the update  **Response Code: 200**  **Response Format: None**  **Body: None**  **Error Code: 406 Unacceptable**  **Response Format: application/json**  **Body:**  {  “message” : “error”  } |
| Upload a BnB image  Request URI: PUT /image/{bnbId}  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 bnb IDs and associated image IDs  **Response Code: 200 OK**  **Response Format: application/json**  **Body:**  [  {  bnbId: “129291912”,  imga : “1121221912”  },  {  bnbId: “129291912”,  imgb: “10202019121  },  {  bnbId: “129291912”,  imgc: “122991912”  },  {  bnbId: “129291912”,  imgd: “11922911221”  },  {  bnbId: “129291912”,  imge: “122291919  }  ]  **Error Code: 406 Unacceptable**  **Response Format: application/json**  **Body:**  {  “message” : “error”  } |
| Upload or replace a BnB image  Request URI: PUT /image/bnbID/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 BnB from the catalogue  Request URI: GET /bnb/{bnbId}  Request Format: None  Body: None | Returns a JSON object with full BnB details  **Response Code: 200 OK**  **Response Format: application/json**  **Body:**  {  “bnbId” : ”100”,  “name” : ” Moses Ngubane”,  …  }  **Error Code: 406 Unacceptable**  **Response Format: application/json**  **Body:**  {  “message” : ”error”  } |
| Retrieve all BnBs from the catalogue  Request URI: GET /products  Request Format: None  Body: None | Returns a JSON array with full BnB details  **Response Code: 200 OK**  **Response Format: application/json**  **Body:**  [  {  “bnbId” : ”12119191”,  “name” : ”Moses Ngubane”,  …  },  {  “bnbId” : ”1219191129”,  “name” : ”Theko Modise”,  …  },  {  “bnbId” : ”1291912912”,  “name” : ” Kevin Kepling”,  …  }  ] |
| Retrieve a BnB image  Request URI: GET /bnbImage/{bnbId}/{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 BnB from the catalogue  Request URI: DELETE /bnb  Request Format: application/json  Body:  {  “bnbId” : “129291912”,  “name”: “Moses Ngubane”,  …  } | Returns a response code  **Response Code: 200 OK**  **Response Format: None**  **Body: None**  **Error Code: 406 Unacceptable**  **Response Format: None**  **Body: None** |
| Remove a BnB from the catalogue  Request URI: DELETE /bnb/bnbId  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** |