**API Catalog**

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| **Sr.** | **Name** | **API URI and HTTP Method** | **Description** |
| 1. | **Products list in Cart API** | **/productCart**  GET  Authorization | To show list of all products in cart |
| 2. | **Add a product API** | **/product**  POST  Authorization | Add a new product to cart |
| 3. | **Fetch a product API** | **/product/{id}:**  GET  Authorization | Fetch specific product details |
| 4. | **Update a product API** | **/product/{id}:**  PUT  Authorization | Update specific product details |
| 5. | **Update quantity of a product API** | **/product/{id}:**  PATCH  Authorization | Update a specific data of a specified entity |
| 6. | **Delete a product API** | **/product/{id}:**  DELETE  Authorization | Delete product by ID |

**Products list in Cart API**

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| --- | --- |
| **API Description** | Show list of all products in cart. |
| **REST endpoint** | /productCart |
| **Request Type** | GET |
| **Auth Type** | Yes |
| **Headers** | None |
| **Request Body** | None |
| **Response** | [  {  "ProductID": "B07S94NGWG",  "ProductName": "Lenovo(Ideapad)"  }  ] |
| **Status** | * 200: OK * 400: Bad request * 401: Unauthorized * 403: Forbidden * 404: Not found * 405: Validation exception * 500: Internal server error * 503: Service unavailable |

**Add a product API**

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| --- | --- |
| **API Description** | Add new product to cart. |
| **REST endpoint** | /product |
| **Request Type** | POST |
| **Auth Type** | Yes |
| **Headers** | None |
| **Request Body** | {  "ProductID": "B07S94NGWG",  "ProductName": "Lenovo(Ideapad)"  } |
| **Response** | [  {  "ProductID": "B07S94NGWG",  "ProductName": "Lenovo(Ideapad)"  }  ] |
| **Status** | * 201: OK created * 202: Accepted * 400: Bad request * 401: Unauthorized * 403: Forbidden * 500: Internal server error * 503: Service unavailable |

**Fetch a product API**

|  |  |
| --- | --- |
| **API Description** | Fetch specific product details. |
| **REST endpoint** | /product /{id} |
| **Request Type** | GET |
| **Auth Type** | Yes |
| **Headers** | None |
| **Request Body** | "ProductID": "B07S94NGWG", |
| **Response** | {  "ProductID": "B07S94NGWG",  "ProductName": "Lenovo(Ideapad)"  } |
| **Status** | * 200: OK * 400: Bad request * 401: Unauthorized * 403: Forbidden * 404: Not found * 405: Validation exception * 500: Internal server error * 503: Service unavailable |

**Update a product API**

|  |  |
| --- | --- |
| **API Description** | Update specific product details. |
| **REST endpoint** | /product /{id} |
| **Request Type** | PUT |
| **Auth Type** | Yes |
| **Headers** | None |
| **Request Body** | "ProductID": "B07S94NGWG", |
| **Response** | {  "ProductID": "B07S94NGWG",  "ProductName": "Lenovo(Ideapad)"  } |
| **Status** | * 200: OK * 201: OK created * 202: Accepted * 204: No content * 400: Bad request * 401: Unauthorized * 403: Forbidden * 404: Not found * 405: Validation exception * 500: Internal server error * 503: Service unavailable |

**Update quantity of a product API**

|  |  |
| --- | --- |
| **API Description** | Update a specific data of a specified entity. |
| **REST endpoint** | /product /{id} |
| **Request Type** | PATCH |
| **Auth Type** | Yes |
| **Headers** | None |
| **Request Body** | "ProductID": "B07S94NGWG", |
| **Response** | {  "ProductID": "B07S94NGWG",  "ProductName": "Lenovo(Ideapad)"  } |
| **Status** | * 200: OK * 201: OK created * 202: Accepted * 400: Bad request * 401: Unauthorized * 403: Forbidden * 404: Not found * 405: Validation exception * 500: Internal server error * 503: Service unavailable |

**Delete a product API**

|  |  |
| --- | --- |
| **API Description** | Delete product by ID. |
| **REST endpoint** | /product /{id} |
| **Request Type** | DELETE |
| **Auth Type** | Yes |
| **Headers** | None |
| **Request Body** | "ProductID": "B07S94NGWG", |
| **Response** | {  "ProductID": "B07S94NGWG",  "ProductName": "Lenovo(Ideapad)"  } |
| **Status** | * 200: OK * 202: Accepted * 204: No content * 400: Bad request * 401: Unauthorized * 403: Forbidden * 404: Not found * 500: Internal server error * 503: Service unavailable |