E-commerce API Specification v1.00

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# Introduction

This service allows you to use the functionalities of the E-commerce website using API.

# Login

This API facilitates logging into the E-Commerce website

## API Endpoint

|  |  |
| --- | --- |
| URL | http://<url host port and path>/EcommerceAPI/API/Login |
| Protocol | HTTP |
| Method | POST |
| Content Type | JSON |
| Post data | A well-formed JSON, as per the specifications provided in this document. |

## High Level Structure

This Service uses JSON as the data format for input and output. Following is the JSON data format for the API:

|  |
| --- |
| {  "meta":  {  "ver": " ",  "requestTs": "",  "txn": ""  },  "LoginDetails":  {  "userName": "",  "password": ""  }  } |

### Element Details

Element Name: Login

* Attributes: Table below

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Name of the Attribute** | **Required** | **Value** |
|  | ver | Mandatory | As of this specification, API version is “1.0”. |
|  | ts | Mandatory | Request timestamp in ISO format.  The value should be in Indian Standard Time (IST). E.g: “2021-08-09 11:42:55” |
|  | txn | Mandatory | Transaction ID of the request. This must be unique for a transaction. This is logged and returned in the output for correlation. |
|  | userName | Mandatory | Unique Username for logging into the application |
|  | password | Mandatory | Password for the given username. The entered password must be same as in the database. |

## Response JSON format

|  |
| --- |
| {  "meta": {  "ver": "",  "responseTs": "",  "txn": ""  },  "LoginDetailsResponse": {  "status": "",  "errorMessage": ""  }  } |

### Element Details

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Name of the Attribute** | **Required** | **Value** |
|  | ver | Mandatory | As of this specification, API version is “1.0”. |
|  | ts | Mandatory | Response timestamp in ISO format.  The value should be in Indian Standard Time (IST). Eg: “2021-08-09 11:42:55” |
|  | txn | Mandatory | Transaction ID of the request. This must be unique for a transaction. This is logged and returned in the output for correlation. |
|  | status | Mandatory | Status of the request  Success or Failure |
|  | errorMessage | Conditional  Mandatory | Optional in case of success  Mandatory in case of failure |

# Register

This API facilitates registering as a user into the E-Commerce website

## API Endpoint

|  |  |
| --- | --- |
| URL | http://<url host port and path>/EcommerceAPI/API/Register |
| Protocol | HTTP |
| Method | POST |
| Content Type | JSON |
| Post data | A well-formed JSON, as per the specifications provided in this document. |

## High Level Structure

This Service uses JSON as the data format for input and output. Following is the JSON data format for the API:

|  |
| --- |
| {  "meta": {  "ver": "",  "requestTs": "",  "txn": ""  },  "registrationDetails": {  "name": "",  "emailID": "",  "mobileNumber": "",  "gender": "",  "country": "",  "password": "",  "userName": "",  "address": ""  }  } |

### Element Details

Element Name: Register

* Attributes: Table below

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Name of the Attribute** | **Required** | **Value** |
|  | ver | Mandatory | As of this specification, API version is “1.0”. |
|  | ts | Mandatory | Request timestamp in ISO format.  The value should be in Indian Standard Time (IST). E.g: “2021-08-09 11:42:55” |
|  | txn | Mandatory | Transaction ID of the request. This must be unique for a transaction. This is logged and returned in the output for correlation. |
|  | name | Mandatory | Name of the person registering into the application |
|  | emailID | Mandatory | Email of the person registering into the application |
|  | mobileNumber | Mandatory | Mobile number of the person registering into the application |
|  | gender | Mandatory | Gender of the person registering into the application |
|  | country | Mandatory | Country of the person registering into the application |
|  | password | Mandatory | Password for the E-commerce Application account. |
|  | userName | Mandatory | Unique Username for logging into the application |
|  | address | Mandatory | Address of the person registering into the application |

## Response JSON format

|  |
| --- |
| {  "meta": {  "ver": "",  "responseTs": "",  "txn": ""  },  "registrationDetailsResponse": {  "status": "",  "errorMessage": ""  }  } |

### Element Details

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Name of the Attribute** | **Required** | **Value** |
| **1** | ver | Mandatory | As of this specification, API version is “1.0”. |
| **2** | ts | Mandatory | Response timestamp in ISO format.  The value should be in Indian Standard Time (IST). Eg: “2021-08-09 11:42:55” |
| **3** | txn | Mandatory | Transaction ID of the request. This must be unique for a transaction. This is logged and returned in the output for correlation. |
| **4** | status | Mandatory | Status of the request  Success or Failure |
| **5** | errorMessage | Conditional  Mandatory | Optional in case of success  Mandatory in case of failure |

# Change Password

This API facilitates changing the password of an account registered to the E-Commerce website

## API Endpoint

|  |  |
| --- | --- |
| URL | http://<url host port and path>/EcommerceAPI/API/ChangePassword |
| Protocol | HTTP |
| Method | POST |
| Content Type | JSON |
| Post data | A well-formed JSON, as per the specifications provided in this document. |

## High Level Structure

This Service uses JSON as the data format for input and output. Following is the JSON data format for the API:

|  |
| --- |
| {  "meta":  {  "ver": "",  "requestTs": "",  "txn": ""  },  "ChangePasswordDetails":  {  "currentPassword": "",  "newPassword": "",  "reEnterPassword": ""  }  } |

### Element Details

Element Name: ChangePassword

* Attributes: Table below

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Name of the Attribute** | **Required** | **Value** |
| 1. | ver | Mandatory | As of this specification, API version is “1.0”. |
| 2. | ts | Mandatory | Request timestamp in ISO format.  The value should be in Indian Standard Time (IST). E.g: “2021-08-09 11:42:55” |
| 3. | txn | Mandatory | Transaction ID of the request. This must be unique for a transaction. This is logged and returned in the output for correlation. |
| 4. | currentPassword | Mandatory | Current password of the user’s account that is going to be changed. It should be the same as in database. |
| 5. | newPassword | Mandatory | New password that is updated to the user’s account |
| 6. | reEnterPassword | Mandatory | Re-enter password must be same as New password. This is for the confirmation of New password |

## Response JSON format

|  |
| --- |
| {  "meta": {  "ver": "1.0",  "responseTs": "2025-02-19 10:42:15",  "txn": "5234324"  },  "ChangePasswordResponse": {  "status": "failure",  "errorMessage": "Invalid Current Password”  }  } |

### Element Details

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Name of the Attribute** | **Required** | **Value** |
| 1. | ver | Mandatory | As of this specification, API version is “1.0”. |
| 2. | ts | Mandatory | Response timestamp in ISO format.  The value should be in Indian Standard Time (IST). Eg: “2021-08-09 11:42:55” |
| 3. | txn | Mandatory | Transaction ID of the request. This must be unique for a transaction. This is logged and returned in the output for correlation. |
| 4. | status | Mandatory | Status of the request  Success or Failure |
| 5. | errorMessage | Conditional  Mandatory | Optional in case of success  Mandatory in case of failure |

# Add Product

This API facilitates admin to add products to the E-Commerce website

## API Endpoint

|  |  |
| --- | --- |
| URL | http://<url host port and path>/EcommerceAPI/API/AddProduct |
| Protocol | HTTP |
| Method | POST |
| Content Type | JSON |
| Post data | A well-formed JSON, as per the specifications provided in this document. |

## High Level Structure

This Service uses JSON as the data format for input and output. Following is the JSON data format for the API:

|  |
| --- |
| {  "meta":  {  "ver": "",  "requestTs": "",  "txn": ""  },  "AddProductDetails":  {  "ProductCategory": "",  "ProductName": "",  "ProductPrice":"",  "ProductQuantity": "",  "ProductDescription": "",  "ProductImage": ""  }  } |

### Element Details

Element Name: AddProduct

* Attributes: Table below

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Name of the Attribute** | **Required** | **Value** |
| 1. | ver | Mandatory | As of this specification, API version is “1.0”. |
| 2. | ts | Mandatory | Request timestamp in ISO format.  The value should be in Indian Standard Time (IST). E.g : “2021-08-09 11:42:55” |
| 3. | txn | Mandatory | Transaction ID of the request. This must be unique for a transaction. This is logged and returned in the output for correlation. |
| 4. | ProductCategory | Mandatory | Category of the added product |
| 5. | ProductName | Mandatory | Name of the added product |
| 6. | ProductPrice | Mandatory | Price of the added product |
| 7. | ProductQuantity | Mandatory | Quantity of the added product |
| 8. | ProductDescription | Mandatory | Description for the added product |
| 9. | ProductImage | Mandatory | Image of the added product |

## Response JSON format

|  |
| --- |
| {   "meta":   {     "ver": "",      "responseTs": "”,      "txn": ""             },   "AddProductResponse":   {     "status": "",     "errorMessage": ""   } } |

### Element Details

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Name of the Attribute** | **Required** | **Value** |
| **1** | ver | Mandatory | As of this specification, API version is “1.0”. |
| **2** | ts | Mandatory | Response timestamp in ISO format.  The value should be in Indian Standard Time (IST). Eg: “2021-08-09 11:42:55” |
| **3** | txn | Mandatory | Transaction ID of the request. This must be unique for a transaction. This is logged and returned in the output for correlation. |
| **4** | status | Mandatory | Status of the request  Success or Failure |
| **5** | errorMessage | Conditional  Mandatory | Optional in case of success  Mandatory in case of failure |

# User Product Details

This API facilitates getting the purchase and cart details of a user.

## API Endpoint

|  |  |
| --- | --- |
| URL | http://<url host port and path>/EcommerceAPI/API/UserProductDetails |
| Protocol | HTTP |
| Method | POST |
| Content Type | JSON |
| Post data | A well-formed JSON, as per the specifications provided in this document. |

## High Level Structure

This Service uses JSON as the data format for input and output. Following is the JSON data format for the API:

|  |
| --- |
| {  "meta":  {  "ver": "",  "requestTs": "",  "txn": ""  },  "userDetails":  {  "userName": ""  }  } |

### Element Details

Element Name: UserProductDetails

* Attributes: Table below

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Name of the Attribute** | **Required** | **Value** |
| 1. | ver | Mandatory | As of this specification, API version is “1.0”. |
| 2. | ts | Mandatory | Request timestamp in ISO format.  The value should be in Indian Standard Time (IST). E.g : “2021-08-09 11:42:55” |
| 3. | txn | Mandatory | Transaction ID of the request. This must be unique for a transaction. This is logged and returned in the output for correlation. |
| 4. | userName | Mandatory | Unique Username for logging into the application |

## Response JSON format

|  |
| --- |
| {   "meta":   {     "ver": "",      "responseTs": "",      "txn": ""             },   "UserProductResponse":   {     "status": "",  "errorMessage": "",     "cartProducts":[     {       "ProductName":""       "ProductPrice":""       "ProductQuantity":""     }     {       "ProductName":""       "ProductPrice":""       "ProductQuantity":""         }     ],     "PurchasedProducts":[     {       "ProductName":""       "ProductPrice":""       "ProductQuantity":""     }     {       "ProductName":""       "ProductPrice":""       "ProductQuantity":""         }     ]   } } |

### Element Details

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Name of the Attribute** | **Required** | **Value** |
| **1** | ver | Mandatory | As of this specification, API version is “1.0”. |
| **2** | ts | Mandatory | Response timestamp in ISO format.  The value should be in Indian Standard Time (IST). Eg: “2021-08-09 11:42:55” |
| **3** | txn | Mandatory | Transaction ID of the request. This must be unique for a transaction. This is logged and returned in the output for correlation. |
| **4** | status | Mandatory | Status of the request  Success or Failure |
| **5** | cartProducts | Conditional  Mandatory | Details of the products present in the cart of the user  Optional in case of failure  Mandatory in case of success |
| **6** | PurchasedProducts | Conditional  Mandatory | Details of the products that are purchased by the user  Optional in case of failure  Mandatory in case of success |
| **7** | ProductName | Conditional  Mandatory | Name of the product present in cart or purchased details  Optional in case of failure  Mandatory in case of success |
| **8** | ProductPrice | Conditional  Mandatory | Price of the product present in cart or purchased details  Optional in case of failure  Mandatory in case of success |
| **9** | ProductQuantity | Conditional  Mandatory | Quantity of the product present in cart or purchased details  Optional in case of failure  Mandatory in case of success |
| **10** | errorMessage | Conditional  Mandatory | Optional in case of success  Mandatory in case of failure |