**SecureEcom**

1. **User Registration:**

* **Username**
* **Password**
* **Email**
* **Phone**
* **Title**

Upon successful submission of the above fields, system generates user with a default role (User).

Encodes password with bcrypt.

1. **Login:**

* **Username**
* **Password**

Every Authenticated users will be get a JWT token in the response.

Store the token in the local storage of the browser.

Use the token to navigate to pages

1. View Products List

* **Product name**
* **Product Price**
* **Product Image**

**Add to Cart**

Users with the Admin role can add new products.

Users with the User role cannot add products.

Role information is available in the JWT token.

1. Add Product

* **Product Name**
* **Product Price**
* **Product Image**

1. Add to Cart

* **Product Name**
* **Product Price**
* **Product Image**
* **Product Quantity**

Users with both User and Admin roles can add products to the cart.

Added products can be modified or removed from the cart.

1. View Cart – Cart items

* **Product Name**
* **Product Price**
* **Product Image**
* **Product Quantity**

1. **Signout**:

Remove JWT token from local storage.

1. **Registration:**

EndPoint: <http://localhost:8080/users/register>

RequestType: Post

Request:   
{

"username":"userone",

"password":"userone",

"email":"coder@codegnan.com",

"phone":"123456789",

"name":"userone",

"businessTitle":"Developer"

 }

Response:   
{

    "id": 10,

    "username": "userone",

    "email": "coder@codegnan.com",

    "phone": "123456789",

    "name": "userone",

    "businessTitle": "Developer",

    "roles": [

        {

            "id": 2,

            "name": "USER",

            "description": "User role"

        }

    ]

}

1. **Authentication (Login):**

EndPoint: <http://localhost:8080/users/authenticate>

Request type: POST

Request Parameters:  
{

"username":"userone",

"password":"userone"

}

Response:   
{

    "token": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJ1c2Vyb25lIiwicm9sZXMiOiJST0xFX1VTRVIiLCJpYXQiOjE3MjIzMjQwNzksImV4cCI6MTcyMjM0MjA3OX0.BN6lkYeuwhCR39zmU-DGvc3Mbbjo5qzX\_8ZGaAsVeME"

}

View Products:

1. EndPoint: <http://localhost:8080/products>

Request Type: GET

Response:   
[

    {

        "id": 1,

        "name": "pen",

        "price": 2000.0,

        "imageUrl": **null**

    },

    {

        "id": 2,

        "name": "Songbook",

        "price": 2000.0,

        "imageUrl": **null**

    },

    {

        "id": 3,

        "name": "musicbook",

        "price": 2000.0,

        "imageUrl": **null**

    },

    {

        "id": 4,

        "name": "musicbook",

        "price": 2000.0,

        "imageUrl": **null**

    },

    {

        "id": 5,

        "name": "Bose",

        "price": 2000.0,

        "imageUrl": **null**

    },

    {

        "id": 6,

        "name": "GUITAR",

        "price": 2000.0,

        "imageUrl": **null**

    },

    {

        "id": 7,

        "name": "Macbook",

        "price": 20600.0,

        "imageUrl": **null**

    },

    {

        "id": 8,

        "name": "Keyboard",

        "price": 2000.33,

        "imageUrl": **null**

    },

    {

        "id": 9,

        "name": "Kmouseard",

        "price": 2000.33,

        "imageUrl": **null**

    },

    {

        "id": 10,

        "name": "Sample Product",

        "price": 19.99,

        "imageUrl": "C:\\uploads\\springwoboot.PNG"

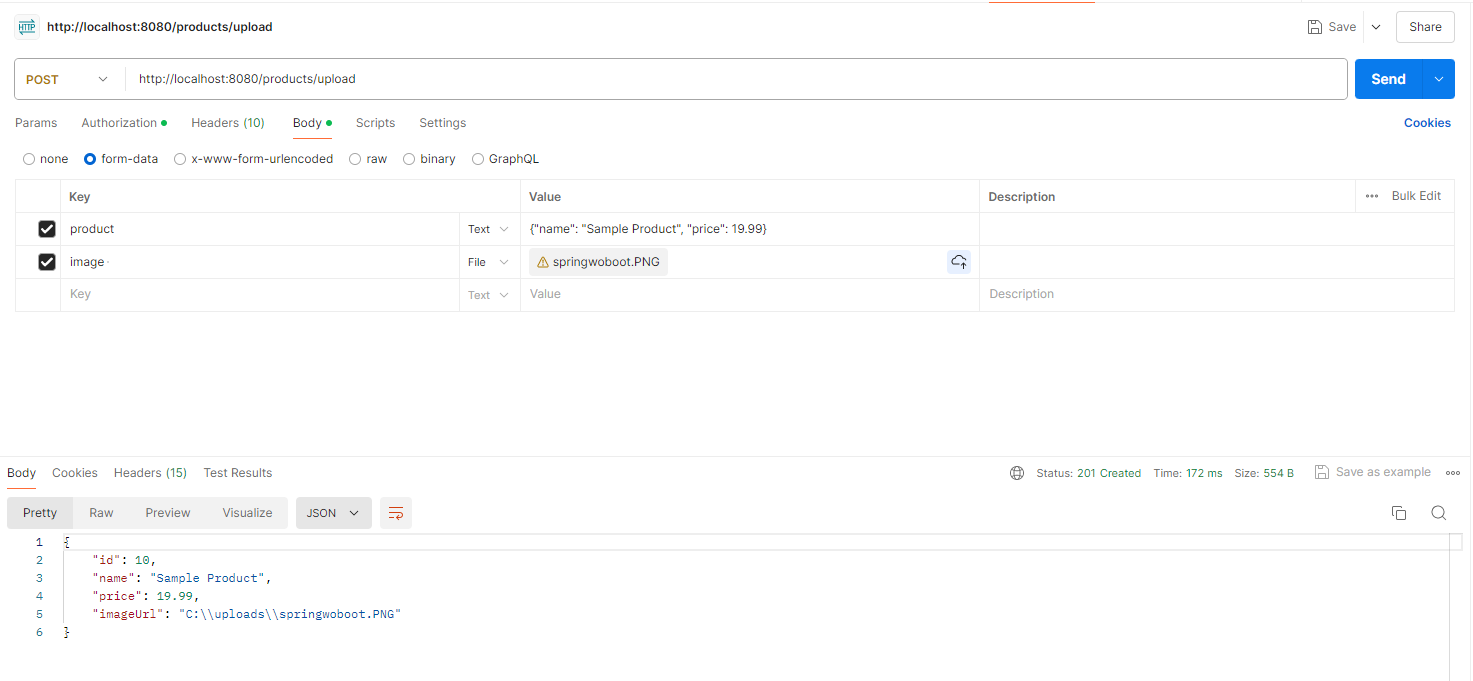
    }

]

ADD Products:

http://localhost:8080/products/upload

Request Type: POST



View Cart:

EndPoint: <http://localhost:8080/cart?userId=11>

RequestType: GET

Request Parameters:

{

    "id": 8,

    "user": {

        "id": 13,

        "username": "c",

        "email": "c@codegnan.com",

        "phone": "123456789",

        "name": "c",

        "businessTitle": "Architect",

        "roles": [

            {

                "id": 2,

                "name": "USER",

                "description": "User role"

            }

        ]

    },

    "items": [

        {

            "id": 14,

            "product": {

                "id": 4,

                "name": "musicbook",

                "price": 2000.0,

                "imageUrl": **null**

            },

            "quantity": 6

        },

        {

            "id": 13,

            "product": {

                "id": 3,

                "name": "musicbook",

                "price": 2000.0,

                "imageUrl": **null**

            },

            "quantity": 6

        },

        {

            "id": 16,

            "product": {

                "id": 10,

                "name": "Sample Product",

                "price": 19.99,

                "imageUrl": "C:\\uploads\\springwoboot.PNG"

            },

            "quantity": 12

        },

        {

            "id": 15,

            "product": {

                "id": 9,

                "name": "Kmouseard",

                "price": 2000.33,

                "imageUrl": **null**

            },

            "quantity": 6

        },

        {

            "id": 12,

            "product": {

                "id": 2,

                "name": "Songbook",

                "price": 2000.0,

                "imageUrl": **null**

            },

            "quantity": 6

        }

    ]

}

{

    "userId":8,

    "productId":3,

    "quantity":2

}

Response:

{

    "id": 7,

    "user": {

        "id": 11,

        "username": "a",

        "email": "coder@codegnan.com",

        "phone": "123456789",

        "name": "userone",

        "businessTitle": "Developer",

        "roles": [

            {

                "id": 2,

                "name": "USER",

                "description": "User role"

            }

        ]

    },

    "items": [

        {

            "id": 11,

            "product": {

                "id": 2,

                "name": "Songbook",

                "price": 2000.0

            },

            "quantity": 6

        }

    ]

}

