**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.

**Front End: Navigation**

On the Navigation bar, the options can be displayed based on the authorization for the particular Logged in User (User’s role) Application has 2 roles – Admin and User (More roles can be added in the next upgrade).

Home Page: Landing Page of an application, the login option can be provided in this page.

On successful login, based on the User’s role, the authorized Links/pages must be displayed.

1. **Admin Role: Main Menu:**

**Product \* User Administration \* Cart \* Logout**

* 1. **Product**

* + 1. View Products: On Opening Products page, List of available Products must be displayed.
    2. **(For Student )** Under each Product, provide an option to edit the product and delete the Product.
    3. Provide an option to **Add Products** with a button or a Menu item.

* 1. **User Administration:**
     1. **View Users List**
     2. (For Student) For each of the Student, provide an option to Edit the student details and delete the student.
     3. Provide an option to Add User with a button or a Menu Item.
  2. **Cart:** 
     1. View Cart.
     2. For each item in the cart, provide an option to edit the quantity and an option to delete the item from the cart.
     3. Provide an option to add item in the cart. (TBD)
  3. **Logout**
     1. On clicking the Logout button, user must be navigated to the Home Page.

1. **User Role: Main Menu:**

**Product \* Cart \* Logout**

* 1. **Product**

* + 1. View Products: On Opening Products page, List of available Products must be displayed.
    2. Provide an option to **Add Products to Cart** with a button
  1. **Cart:** 
     1. View Cart.
     2. For each item in the cart, provide an option to edit the quantity and an option to delete the item from the cart.
     3. Provide an option to add item in the cart. (TBD)
  2. **Logout**
     1. On clicking the Logout button, user must be navigated to the Home Page.

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"

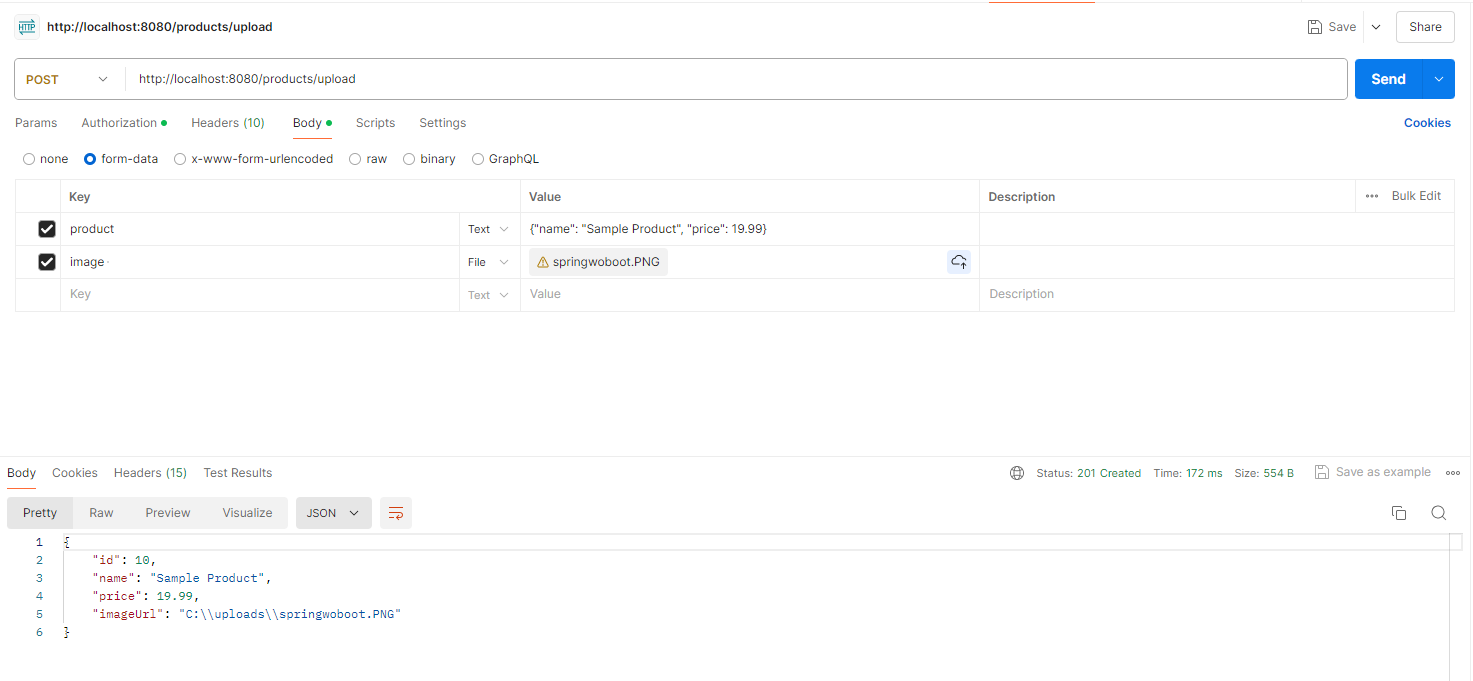
    }

]

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

        }

    ]

}

