# SOFTWARE TESTING REPORT

MediCure

# UNIT TESTING

We are testing all the components and 'units' of our system as shown below:

- Test Case - User Registration with new email ID.

## SIGN UP

Name

Dummy Tester 1

Email Address

sanitroy2000@gmail.com

Password

•••••

Confirm Password

•••••

REGISTER

Have an Account? Login

## USERS

| ID | NAME | EMAIL | ADMIN | | |
|---|---|---|---|---|---|
| 6242e9c41d516a1a021e56e5 | Utkarsh | utkarsh@iiitg.ac.in | ✓ | ✎ | 🗑 |
| 6242e9c41d516a1a021e56e6 | Sangaja | sangaja@iiitg.ac.in | ✗ | ✎ | 🗑 |
| 6242e9c41d516a1a021e56e7 | Sanit | sanit@iiitg.ac.in | ✗ | ✎ | 🗑 |
| 6242e9c41d516a1a021e56e8 | Sanjuli | sanjuli@iiitg.ac.in | ✗ | ✎ | 🗑 |
| 62595c87de6931c0db37ac3a | Dummy Tester 1 | sanitroy2000@gmail.com | ✗ | ✎ | 🗑 |

Status : Passed

- Test Case - Register with existing email id.

## SIGN UP

Name

Dummy Tester 2

Email Address

sanitroy2000@gmail.com

Password

•••••

Confirm Password

•••••

REGISTER

Have an Account? Login

## SIGN UP

User Already Exists

Name

Dummy Tester 2

Email Address

sanitroy2000@gmail.com

Password

•••••

Confirm Password

•••••

REGISTER

Have an Account? Login

Status : Passed

- Test Case - Register with an invalid email id.



Status : Passed

- Test Case - Login into an existing account.

## SIGN IN

Email Address

sanitroy2000@gmail.com

Password

•••••

**SIGN IN**

New Customer? Register

## USER PROFILE

Name

Dummy Tester 1

Email Address

sanitroy2000@gmail.com

Password

Enter password

Confirm Password

Confirm password

**UPDATE**

## MY ORDERS

| ID | DATE | TOTAL | PAID | DELIVERED | |
|----|------|-------|------|-----------|--|
|    |      |       |      |           |  |

Status : Passed

- Test Case - Navbar should show signed in status.

MEDICURE    Search Products...    SEARCH    🛒 CART   👤 SIGN IN

MEDICURE    Search Products...    SEARCH    🛒 CART   SANIT ▾

Status : Passed

● Test Case - Login using wrong email or password.

# SIGN IN

Invalid email or password

Email Address

wrongemail@gmail.com

Password

•••••

SIGN IN

New Customer? Register

Status : Passed

● Test Case - Trying to buy medicine without logging in or signing up. Expected behavior being redirected to the login page.

SHOPPING CART

Cetzine          ₹15.3          1 ⌄          🗑

SUBTOTAL (1) ITEMS

₹15.30

PROCEED TO CHECKOUT

# SIGN IN

Email Address

Enter email

Password

Enter password

SIGN IN

New Customer? Register

Status : Passed

- Test Case - Commenting should only be possible when signed in.

MEDICURE | Search Products... | SEARCH | 🛒 CART  👤 SIGN IN

GO BACK

### CETZINE

0 reviews

Price: ₹15.3

Description: Antiallergics

| Price: | ₹15.3 |
| Status: | In Stock |
| Qty | 1 |

ADD TO CART

Cetirizine Tablets IP
Cetzine®
2 Composite packs
of 5 X 10 Tablets
gsk GlaxoSmithKline

## REVIEWS

No Reviews

### WRITE A CUSTOMER REVIEW

Please sign in to write a review

Status : Passed

CONCLUSION:

After unit testing, we find that all the components and screens are working as intended.

## INTEGRATION TESTING

We ran all unit test modules. We found that all the modules are loosely coupled and don't require separate integration testing.

Our routes directly use the database methods and all of the aggregate functions are performed by the database.

# SYSTEM TESTING

TEST #1:

Index Route ("/")
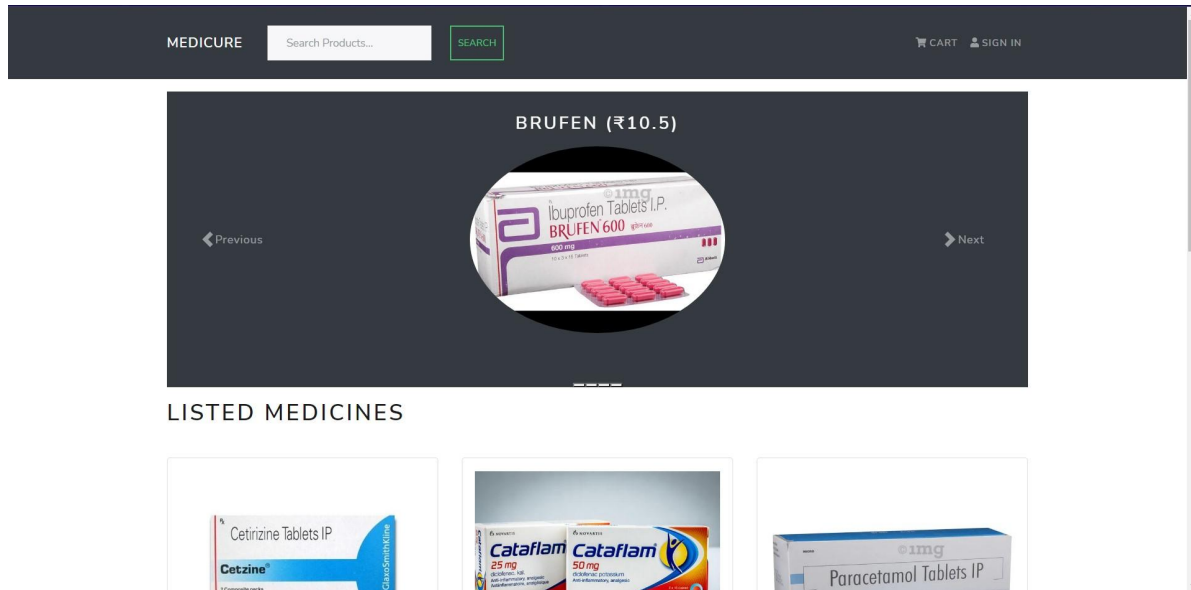


Redirects to Home Page.

TEST #2:

Login Form ("`/login`")



This route allows the user to input their credentials to login to the system.

Entering wrong credentials causes a redirect to "/login" indicating failure.

TEST #3:

Auth Token

```
1  {
2      "_id": "62595c87de6931c0db37ac3a",
3      "name": "Dummy Tester 1",
4      "email": "sanitroy2000@gmail.com",
5      "isAdmin": false,
6      "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
           eyJpZCI6IjYyNTk1Yzg3ZGU2OTMxYzBkYjM3YWMzYSIsImlhdCI6MTY1MDAyNjU4NCwiZXhwIjoxNjUyNjE4NTg0fQ.
           w1_d0Qax_1fESQl_Db08QVilnmwj5a-u-CPfhhO1Rjo"
7  }
```

An authorisation token is assigned to the logged in user with a certain expiration time.

TEST #4:

Register Form ("/register")

SIGN UP

Name

Enter name

Email Address

Enter email

Password

Enter password

Confirm Password

Confirm password

REGISTER

Have an Account? Login

This route renders a form for users to input their details to register a new user in the system.

TEST #5:

Cart ("`/cart/:id?`")

## SHOPPING CART

| | | | | |
|---|---|---|---|---|
| Cetzine | ₹15.3 | 5 ∨ | 🗑 | |
| Dolo-650 | ₹42.3 | 3 ∨ | 🗑 | |

**SUBTOTAL (8) ITEMS**

₹203.40

PROCEED TO CHECKOUT

This route shows all the cart items added by the logged-in user (retrievable by 'id' or null if no user logged in).

TEST #6:

UserList Dashboard ("`/admin/userlist`")

## USERS

| ID | NAME | EMAIL | ADMIN | |
|---|---|---|---|---|
| 6242e9c41d516a1a021e56e5 | Utkarsh | utkarsh@iiitg.ac.in | ✔ | ✎ 🗑 |
| 6242e9c41d516a1a021e56e6 | Sangaja | sangaja@iiitg.ac.in | ✖ | ✎ 🗑 |
| 6242e9c41d516a1a021e56e7 | Sanit | sanit@iiitg.ac.in | ✖ | ✎ 🗑 |
| 6242e9c41d516a1a021e56e8 | Sanjuli | sanjuli@iiitg.ac.in | ✖ | ✎ 🗑 |
| 62595c87de6931c0db37ac3a | Dummy Tester 1 | sanitroy2000@gmail.com | ✖ | ✎ 🗑 |

Upon (isAdmin = True), this route shows a dashboard with all the existing users and control over their properties and details.

TEST #7:

ProductList Dashboard ("/admin/productlist")

## PRODUCTS

**+ CREATE PRODUCT**

| ID | NAME | PRICE | CATEGORY | BRAND | | |
|---|---|---|---|---|---|---|
| 6242e9c41d516a1a021e56ea | Cetzine | ₹15.3 | Cetirizine | Glaxo-Smith Kline | ✎ | 🗑 |
| 6242e9c41d516a1a021e56eb | Cataflam | ₹17.7 | Diclofenac | Novartis | ✎ | 🗑 |
| 6242e9c41d516a1a021e56ec | Dolo-650 | ₹42.3 | Paracetamol | Micro Labs Limited | ✎ | 🗑 |
| 6242e9c41d516a1a021e56ed | Brufen | ₹10.5 | Ibuprofen | Abbott | ✎ | 🗑 |
| 6242e9c41d516a1a021e56ee | Crocin | ₹45.8 | Paracetamol | Glaxo-Smith Kline | ✎ | 🗑 |
| 6242e9c41d516a1a021e56ef | Albewell 400 | ₹21.4 | Albendazole | Wellona Pharma | ✎ | 🗑 |

1(current)  2  3

Upon (isAdmin = True), this route shows a dashboard with all the existing products and adding/removing them.

TEST #8:

Shipping ("/shipping")

Sign In          Shipping          Payment          Place Order

## SHIPPING

Address

Enter address

City

Enter city

Postal Code

Enter postal code

Country

Enter country

**CONTINUE**

Proceeding for checkout, this route leads us to the 4-phase order process (specifically, Shipping Address entry for this)

TEST #9:

Place Order ("/placeorder")

## SHIPPING

Address:12, Jomi 321111, India

## PAYMENT METHOD

Method: PayPal

## ORDER ITEMS

| | Cetzine | 5 x ₹15.3 = ₹76.5 |
| | Dolo-650 | 3 x ₹42.3 = ₹126.89999999999999 |

### ORDER SUMMARY

| Items | ₹203.40 |
| Shipping | ₹0.00 |
| Tax | ₹24.41 |
| Total | ₹227.81 |

**PLACE ORDER**

This route is the next step for finalizing the process of placing an order. Post this process, the order will be made and it will redirect to the Payment Page ("/payment")

TEST #10:

Payment ("/payment")

# ORDER 625963F3A50DFD8AA9ECE32B

## SHIPPING

Name: Utkarsh

Email: utkarsh@iiitg.ac.in

Address:12, Jomi 321111, India

Not Delivered

## PAYMENT METHOD

Method: PayPal

Not Paid

## ORDER ITEMS

| | Cetzine | 5 x ₹15.3 = ₹76.5 |
| | Dolo-650 | 3 x ₹42.3 = ₹126.89999999999999 |

### ORDER SUMMARY

| Items | ₹203.40 |
| Shipping | ₹0 |
| Tax | ₹24.41 |
| Total | ₹227.81 |

PayPal

Debit or Credit Card

Powered by PayPal

The final page with the order made.
Payment Prompts are shown upon this route.

TEST #11:

Product ("`/product/:id`")



REVIEWS

No Reviews

WRITE A CUSTOMER REVIEW

Rating

Select...

Comment

SUBMIT

This route shows the product (retrievable by 'id') and leads to the respective page of the product.

Moreover, going through the whole process as a simulation, we use a package **'morgan'** to log the HTTP requests and test their status.

```
[1]    Local:            http://localhost:3000
[1]    On Your Network:  http://192.168.29.2:3000
[1]
[1] Note that the development build is not optimized.
[1] To create a production build, use yarn build.
[1]
[0] GET /api/products/top 304 62.722 ms - -
[0] GET /api/products?keyword=&pageNumber=1 304 129.004 ms - -
[0] GET /api/products/top 304 64.877 ms - -
[0] GET /api/products?keyword=&pageNumber=1 304 93.929 ms - -
[0] POST /api/users/login 200 205.544 ms - 278
[0] GET /api/products/top 304 47.785 ms - -
[0] GET /api/products?keyword=&pageNumber=1 304 92.668 ms - -
[0] GET /api/users 304 102.240 ms - -
[0] GET /api/products?keyword=&pageNumber=1 304 96.658 ms - -
[0] GET /api/orders 304 148.157 ms - -
[0] GET /api/users/profile 304 95.031 ms - -
[0] GET /api/orders/myorders 304 94.709 ms - -
[0] GET /api/products/top 304 46.633 ms - -
[0] GET /api/products?keyword=&pageNumber=1 304 125.121 ms - -
[0] GET /api/products/6242e9c41d516a1a021e56eb 304 66.533 ms - -
[0] GET /api/products/6242e9c41d516a1a021e56eb 304 63.509 ms - -
[0] POST /api/orders 201 148.868 ms - 515
[0] GET /api/orders/62597b60f7439fb21027797f 200 193.784 ms - 570
[0] GET /api/orders/62597b60f7439fb21027797f 304 192.788 ms - -
[0] GET /api/config/paypal 304 0.675 ms - -
```

## CONCLUSION

After system tests,it was concluded that all the required function requirements were met and the system behavior is consistent with the srs.

All the routes are also well established with the frontend, up and running.

# THANK YOU

_ UTKARSH
_ SANJULI TRIVEDI
_ SANGAJA PATEL
_ SANIT ROY