

# Malume'z: E-Spaza shop project documentation



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## **1) App Walkthrough**

Video Link: <https://youtu.be/DBR9y82R3DU>

## **2) Link for app access**

You can find our shop at: <https://gray-moss-08fc7ee03.5.azurestaticapps.net/>

Use the following credentials:

- For a Buyer: Email = testMark@gmail.com Password = TestinMarkin01
- For a Seller: Email = mahlanza28@gmail.com Password = 12345678
- For an Admin: Email = pigeons@hotmail.com Password = pigeons123

Otherwise feel free to make a new shopper or buyer account

## **3) Github repository**

Find the github repository at the following: <https://github.com/SeanWits/Malumez>

The README document contains instructions on how to set up and run the application locally

## **4) Proof of Scrum Methodology**

Product and sprint backlogs:

Trello Board for Task Management:

<https://trello.com/invite/b/oZ8jFTZ7/ATTI6a2e7b14f87c56c7f52fd30b9d7bf526C1F5F201/malumez-e-spaza-project>

**Sprint 1 = 17 - 24 April :**

### **User stories ( Who-What-Why)**

- 1)) As a user I should be able to sign in to have access to my account
- 2) As a new user, I should be able to create an account to have access to the website
- 3) As a user, If my login credentials are not correct, I should be notified so I can fix my mistakes
- 4) As a user, after I have logged in, I should be able to stay logged in so I can complete actions on my account.

### **User Acceptance Cases (Given-When-Then)**

- Given that I am a user, when I do not have an account yet, then I should be able to sign up (Create a new account)
- Given that I am a user, If I do not have an account, I should not be able to log in
- Given that I am a user, when I log into my account correctly, I should be redirected to the home page
- Given that I am a user, when I sign in with the incorrect credentials, then I should be told my credentials are incorrect via an error message
- Given that I am a user, when I try to make a new account with an email address already in use, I should not be able to make that account.

Tasks and Points:

- Landing page/ home page - 4 Points
- Create Login page (Front end) - 1 Point
- Create Login page (back end) - 2 Points
- Link Google Verification to signup page - 0.25 points
- Create Signup page - 1 Point
- Link firebase Database to app - 2 Points
- Malumez logo and name - 0.5 Points
- User Acceptance tests - 0.5 Points
- Integrate Code coverage to Github - 3 Points
- Display flex signup page - 0.25 Points
- Convert html to JSX - 3 Points

- Toast messages for errors and successes - 1 Point
- Complete minutes for current sprint - 1 Point
- CSS for login and signup page - 1 Point
- Navigate from signup to login - 0.5 Point

Total Points: 21 Points

## **Sprint 2 = 25 - 30 April**

### **User stories (Who-What-Why)**

1. As a buyer, I should be able to see the home page
2. As a buyer, I am able to browse the products page to see what products are for sale
3. As a buyer, I am able to checkout a product that I would like to buy
4. As a Buyer, I am able to navigate to the checkout page
5. As an Admin, I am able to view basic user information and status

### **User acceptance cases (Given-When-Then)**

- Given that I am a buyer, When I navigate to the products page, then I am able to see all the available products
- Given that I am a buyer, when I have logged in, I am taken to the home page
- Given that I am a buyer, when I navigate to the home page, I should be able to see some advertisements and products
- Given that I am a buyer,
- Given that I am an Admin, When I log in, I should be taken to the administrator page
- Given that I am on the home page, when I click on the view more button, I should be taken to the products page

### **Tasks and Points:**

- Deploy Application on Azure - 4 Points
- Admin page setup - 2 Points
- Create Home page - 2 Points
- Create Products page - 2 Points
- Integrate product pages - 1 Point
- Create checkout page - 1 Point
- Create Order status page - 1.5 Points
- Database = Store shops, products, brands, users, Carts ( Create some values for each) - 1.5 Points (Figuring out how to structure the database and the relationships between various objects)
- User acceptance tests for this sprint - 0.5 Points
- Use cases for this sprint - 0.5 Points
- Unit tests = Aiming for 20% - 4 Points
- 4+1 Diagrams - 0.5 Points

### **Backlog from previous sprint**

- Perfect use of UML syntax
- 4 User stories - 0.5 Points
- Github releases
- Azure deployment - 3 Points
- Issue tracking 1 Point
- Finalize signup page - 1.5 Points
- Toast messages - 1 Point

Total Points: 27.5

### **Sprint 3 = 1 - 8 May**

#### **User stories (Who-what-why)**

- 1) As an administrator, I should be able to add, delete and modify user information in order to manage the users
- 2) As a seller/ shop owner, I should be able to view the seller page
- 3) As a buyer, I should be able to filter the products to make what I am looking for easier to find
- 4) As a user, I should be able to stay logged in as long as I want so I can continue to interact with the site

#### **User acceptance cases (Given-When-Then)**

- Given that I am an administrator, when I delete a user, then the user's information should be permanently deleted from the database
- Given that I am an administrator, when I add a user to the database, then the user should appear in the database
- Given that I am an administrator, when I modify user information, then the information about that user should be modified in the database
- Given that I am a seller/ shop owner, when I log in, then I should be redirected to the seller home page
- Given that I am a buyer, when I filter the products by brand, category and price, only the products that satisfy the filter should be displayed on the products page
- Given that I am a user, When I navigate to different pages, then I should not be signed out of my account

#### Tasks and Points:

- Functions/ items that appear on each page should be decentralized and imported onto the necessary pages - 0.5 Points
- User stories for this sprint - 0.5 Points
- User acceptance tests - 0.5 Points
- Complete and populate products + brands database - 1 Point
- 4+ 1 Diagrams - 1 Point
- Order status page - 2 Points
- Fix home page display - 1 Point
- Put a few products on home page - 0.25 Points
- Create filter block for products: Filter by brand, category and price (Low to high and high to low) - 0.5 Points
- Admin functionality: Add, delete and verify users - 2 Points
- Create seller page - 2 Points
- Fix readings errors and warnings (Too many reads from the database) - 1 Point
- Persistent login (User stays logged in even as they navigate to different pages) - 1 Point
- Timer on ads so they scroll automatically - 0.25 Points

#### backlog from previous sprint

- Admin functionality - 3 Points
- Display products for featured products on home page - 1 Point
- Populate products page with all products - 1 Point
- Navigate from sign-up to login to home page - 0.25 Points
- Finalize an order - 2 Points
- Cart maintain state when navigating to pages - 0.25 Points
- remove items from cart - 0.5 Points
- Merge to master - 3 Points

- Deploy on Azure - 2 Points

Total Points = 25

A few notes on Sprint review

- Comments in code
- delete unused variables
- Each team member should do the test case for what they are working on
- Plan meetings with client at least an hour before
- Merge at least one day before meeting with client
- Keep up with github releases

### **Sprint 4 = 9 - 20 May**

#### **User stories ( Who-WHat-Why)**

1. As a buyer, I am able to complete the purchase of selected items to receive the ordered products.
2. As a buyer, I am able to search for specific items that I want so It is easier to find them
3. As a buyer, I am able to view the current status of an order so I know when it is ready for collection
4. As a seller, I am able to add new items to the inventory to make new items available for customers.
5. As a seller, I am able to access a list of orders made by buyers to fulfil customer orders efficiently.
6. As a seller, I able to check the availability of items in stock to restock as needed.
7. As a seller, I am able to remove products from the inventory to remove outdated items to keep my inventory up to date
8. As an administrator, I am able to manage user accounts by deleting, adding and blocking them to maintain a secure platform.
9. As an administrator, I am able to modify user roles and access levels to control who can perform certain actions and manage the platform effectively.
- 10.
- 11.
- 12.
- 13.
- 14.

#### **User acceptance tests (Given- when -Then)**

- Given that I am a buyer, when I click on the search icon, then I am able to search for the items I have entered into the search bar
- Given that I am a buyer, when I click the "Complete Order" button, then the system updates my order status to "Completed" and I receive confirmation of my order.
- Given that I am a buyer who has placed an order, when I log into my account, then I am able to see the status of my order.
- Given that I am a seller, when I upload items from my inventory, then am able to see my items on the website and receive orders.
- Given that I am a seller, when I click the "View Purchases" button, then I am able to see all of the purchases from buyers on the website.
- Given that I am a seller, when I access the "View Stock" section, then I am able to view the stock have available to sell.
- Given that I am a seller, when I delete a product from my inventory, then it is removed from my inventory list.
- Given I am an administrator, when I want to manage accounts, then I am able to delete, add or block users.
- Given that I am an administrator, when I click on "change permissions", then I able to modify the permissions of any user.

Tasks and Points:

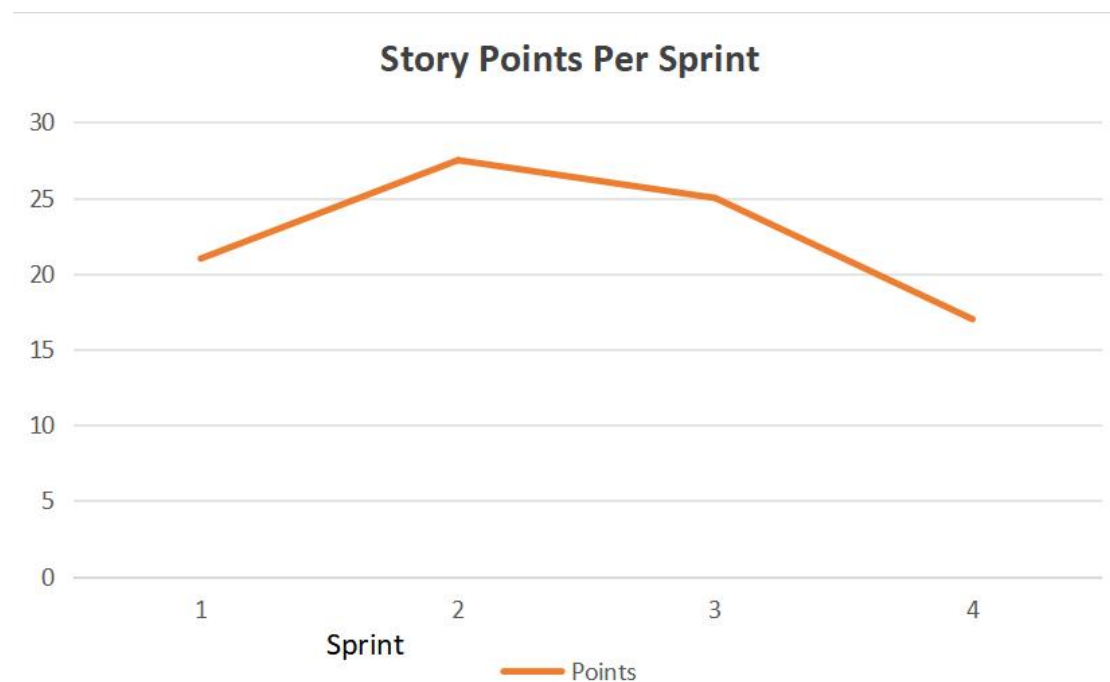
- Upload product page (for sellers) - 2 Points
- Add camera functionality for adding products on seller page - 1 Page
- Complete minutes for current sprint - 0.5 Points
- Notifications page for seller so they are made aware of new orders - 2 Points

- Finalize order (Keep state of cart and pass completed cart to the database and push to the sellers) - 0.5 Points
- Random products displayed on home page - 0.5 Points
- Admin functionality complete - Add, block, delete users - 1 Point
- Toast notification when item added to cart (Prevent spamming of item) - 0.25 Points
- Cart shows item quantity instead of multiple instances of the same item - 0.25 Points
- Notification wireframe, mockup and prototype complete - 0.25 Points
- Backend of seller page complete - 1 Point
- Shop signup form for new sellers - 1 Point
- Display shop details on Seller page (Address, email, contact number, shop name) - 0.25 Points
- Link buttons to order status and cart - 0.25 Points
- Keep user location to prompt about nearest shop - 1 Point

Backlog from previous sprint

- Unit tests - 3 Points
- Issue: Finalize purchase allows empty cart to proceed
- Order status page - 2 Points
- Persistent login - 0.5 Points

Total Points: 17



Daily stand ups and Sprint reviews:

[https://docs.google.com/document/d/1\\_ex3l3uTR6h1QlctooW7hdQtGsffKjI3eqL9UpbdtZw/edit?usp=sharing](https://docs.google.com/document/d/1_ex3l3uTR6h1QlctooW7hdQtGsffKjI3eqL9UpbdtZw/edit?usp=sharing)

#### **Additional Artefacts:**

##### **Project Plan**

The purpose of this project is to create an e-commerce site that allows spaza shops and buyers to interact remotely and helps shoppers find the products they are looking for from the nearest available spaza shops while helping spaza shops keep track of their inventory and allowing shoppers to make purchases at any time so spaza shops do not lose their business due to unavailability. The project also

includes administrative functionality to manage the users and site to keep it running optimally. No monetary exchanges will be made on the site.

Deadlines:

Sprint 1 (17 - 24 April): Initial set-up and user authentication

Sprint 2 (25 - 30 April): Basic e-commerce functionalities and deployment

Sprint 3 (1 - 8 May): Debugging user and seller functionalities

Sprint 4 (9 - 20 May): Finalizing e-commerce and administrative functions

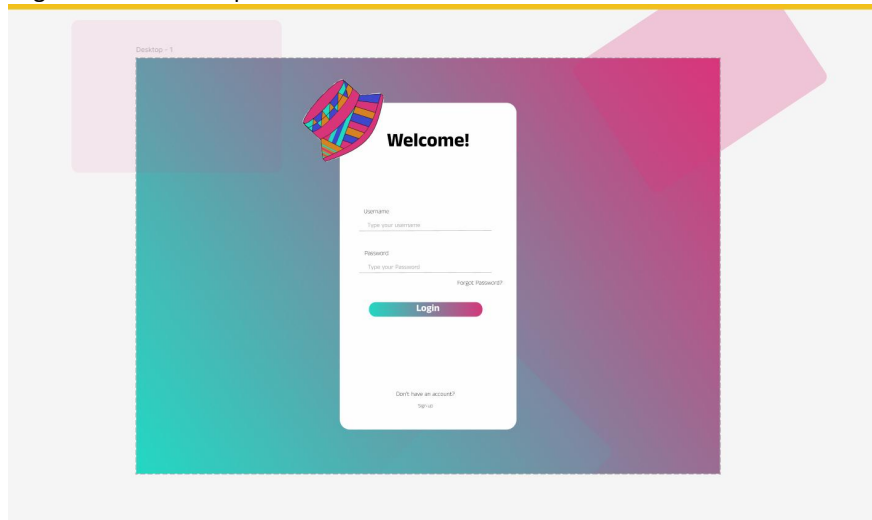
Major milestones included the day the team was able to successfully migrate from HTML and JavaScript to React. This took some getting used to as JSX, although being similar to both JavaScript and HTML, is not exactly the same and differs in syntax. The 20<sup>th</sup> of May was also another milestone when all the different parts of the project were integrated so that one aspect could navigate easily to the other.

For architecture diagram and Design document:

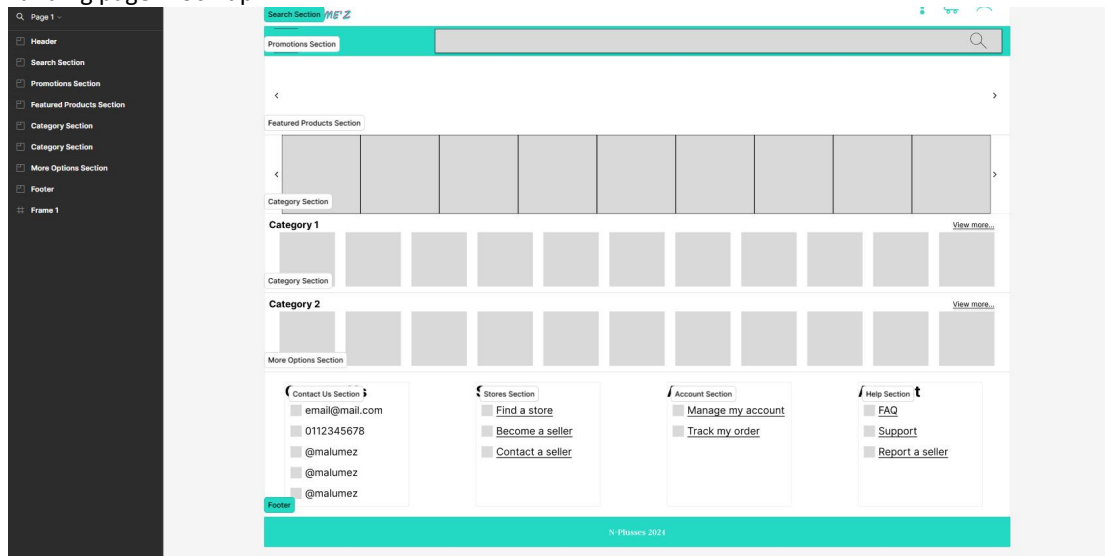
[https://github.com/SeanWits/Malumez/tree/master/Documentation/UML%20diagrams%20\(all\)](https://github.com/SeanWits/Malumez/tree/master/Documentation/UML%20diagrams%20(all))

Some mock-ups and wire-frames of various pages

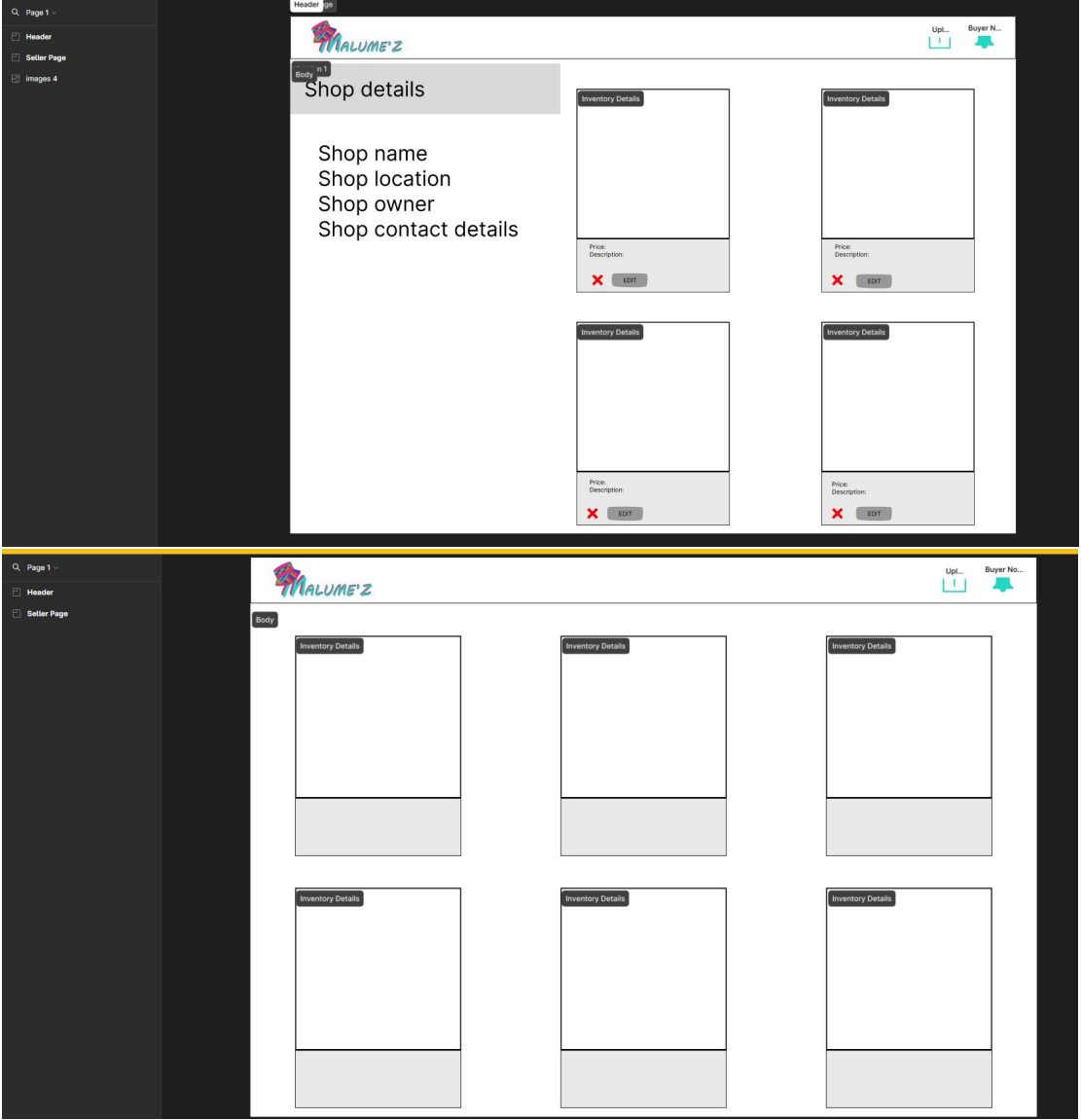
Login Screen Mock-up:



Landing page Mock-up



Seller page Mockups

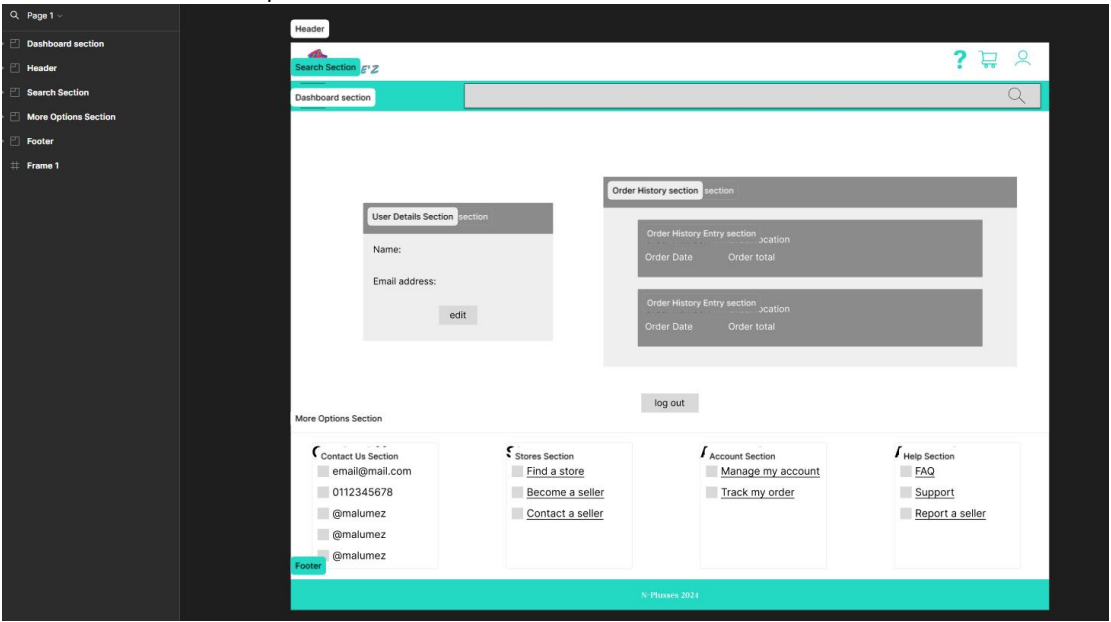




Notification Page Mockup



Seller Dashboard Mockup



Test Plan and results:

SeanWits / Malumez / master

Coverage Flags Components Commits Pulls

Branch Context

master

Source: latest commit 4e0b5de

Coverage on branch

644 of 1589 lines covered

40.52%

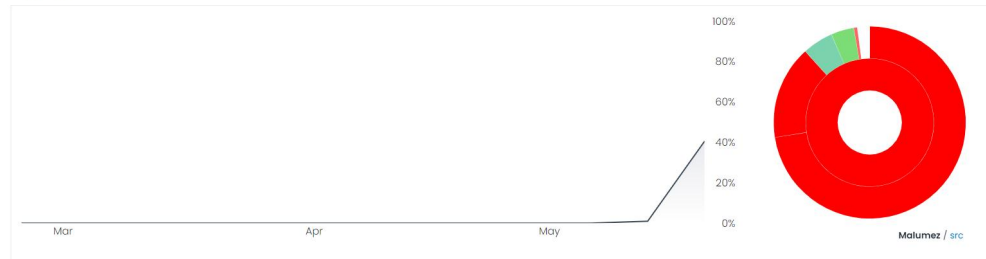
3 Months trend

+40.53%

YAML Configuration

Learn more about PR comment, target and flags

Hide Chart



Code tree File list Malumez

Search for files

Files	Tracked lines	Covered	Partial	Missed	Coverage %
src	1589	644	136	809	40.53%



Report a Bug

```
Pass src/components/Home/Categories.test.js
Fail src/pages/sellerForm.test.js
● Console

console.log

    at src/pages/sellerForm.js:35:13
console.log

    at src/pages/sellerForm.js:35:13
console.log

    at src/pages/sellerForm.js:35:13
console.log

    at src/pages/sellerForm.js:35:13
console.log

    at src/pages/sellerForm.js:35:13
console.log
  shop added to the database.

    at addShop (src/pages/sellerForm.js:96:15)
console.log

    at src/pages/sellerForm.js:35:13
console.log
  shop added to the database.

    at addShop (src/pages/sellerForm.js:96:15)
Pass src/components/OrderStatus/StateTracking.test.js
Pass src/components/Home/Footer.test.js
```

File	% Stmts	% Branch	% Funcs	% Lines	Uncovered Line #s
All files	36.89	25.14	52	36.69	
src	77.66	76.66	87.71	76.92	
App.js	11.11	100	0	12.5	22-33
firebase.js	85.71	100	0	85.71	29
index.js	0	0	100	0	7-23
math.js	98.64	95.83	100	100	155
reportWebVitals.js	0	0	0	0	1-8
src/components	44.82	25	66.66	44.82	
getCartItem.js	0	0	0	0	4-22
modal.js	66.66	50	66.66	66.66	14-15,24,31
product.js	100	100	100	100	
productSeller.js	100	100	100	100	
src/components/Admin	36.84	37.5	50	33.33	
UpdateRoles.js	36.84	37.5	50	33.33	14-42,65
src/components/Dashboard	6.89	0	0	6.89	
OrderHistory.js	0	100	0	0	2
UserDetails.js	7.14	0	0	7.14	7-21,27-52
src/components/Home	50.86	30	50	51.32	
AdsBar.js	90.47	75	100	90	30,32
Categories.js	40.62	0	40	41.93	21-61,86
FeaturedProduct.js	37.14	16.66	33.33	38.23	22-31,38-60,67,72-83
Footer.js	100	100	100	100	
Header.js	57.14	50	28.57	57.14	12,23-45
More_Options.js	50	100	33.33	50	59-74
Search.js	33.33	0	33.33	33.33	13-19,28
src/components/OrderStatus	70.87	76.66	84.74	70	
OrderTracking.js	0	0	0	0	11-71
StateTracking.js	98.64	95.83	100	100	155
src/components/Seller	47.71	57.69	47.91	47.65	
Header.js	100	100	100	100	
Notifications.js	0	0	0	0	18-176
SellerProducts.js	89.58	83.33	100	89.13	44,60,71,83,118
ShopDetails.js	90.47	100	100	90.47	31-32
Stock.js	0	100	0	0	10-78
product.js	0	100	0	0	4-5
src/pages	25.14	14.86	28.37	25.79	

Summary

Jobs

codecov

Run details

Usage

Workflow file

codecov

succeeded 6 hours ago in 1m 7s

Search logs

8s

Run tests with coverage

333 Notifications.js | 0 | 0 | 0 | 0 | 18-176

334 SellerProducts.js | 89.58 | 83.33 | 100 | 89.13 | 44,60,71,83,118

335 ShopDetails.js | 90.47 | 100 | 100 | 90.47 | 31-32

336 Stock.js | 0 | 100 | 0 | 0 | 10-78

337 product.js | 0 | 100 | 0 | 0 | 4-5

338 src/pages | 25.14 | 14.86 | 28.37 | 25.79 |

339 Checkout.js | 0.99 | 0 | 0 | 1.01 | 15-243

340 Dashboard.js | 0 | 100 | 0 | 0 | 13-27

341 OrderStatus.js | 0 | 100 | 0 | 0 | 14

342 Seller.js | 0 | 100 | 0 | 0 | 10-12

343 ShoppingCart.js | 0 | 100 | 0 | 0 | 5-11

344 admin.js | 0 | 0 | 0 | 0 | 13-623

345 carts.js | 0 | 0 | 0 | 0 | 5-14

346 home.js | 0 | 100 | 0 | 0 | 15-17

347 login.js | 79.59 | 61.53 | 76.92 | 78.72 | 45-54,74-75,88-89,163

348 products.js | 26.54 | 8.04 | 20.51 | 27.56 | 56-89,106-107,122-169,177-185,190-194,199-218,223-234,242,247-295,360-369

349 sellerForm.js | 80.51 | 75.86 | 100 | 86.11 | 54-56,64-66,98-102

350 signUp.js | 50 | 46.15 | 81.81 | 50 | 26-31,42-46,50-54,62-88,105-122,127-129

351 uploadImg.js | 31.73 | 25.64 | 16.66 | 32.03 | 42-43,47-50,54-62,77-86,94-128,134-176,183,221-338

352

353

354 Test Suites: 16 passed, 16 total

355 Tests: 132 passed, 132 total

356 Snapshots: 0 total

357 Time: 7.44 s

358 Ran all test suites.

Upload coverage report to Codecov

5s