

# Test Document for Speedy Drop

## 1. User Authentication:

We had 2 modules that map to this requirement tested separately.

### 1.1. Signup:

Identifier	UA-1
Related Requirements	User Authentication
Short Description	A user will create an Account to use the app
Pre-Conditions	Has stable internet Connection
Input Data	Username/Email and Password
Detailed Steps	<ol style="list-style-type: none"><li>1. Open the app.</li><li>2. Click on the "Create an Account" button.</li><li>3. Enter an Email.</li><li>4. Enter a password</li><li>5. Press Signup</li><li>6. Re enter credentials to login</li></ol>
Expected Results	User is successfully signed-up and logged in
Post-Conditions	User is logged in and can access app features
Actual Results	User Created account successfully
Test Case Result	Successful

### 1.2. Login:

Identifier	UA-2
Related Requirements	User Authentication
Short Description	A user will login using already created account
Pre-Conditions	Has stable internet Connection and already created account
Input Data	Email and Password
Detailed Steps	<ol style="list-style-type: none"><li>1. Open the app.</li><li>2. Enter an Email.</li><li>3. Enter a password</li></ol>

	4. Press login
Expected Results	User is logged in
Post-Conditions	User is logged in and can access app features
Actual Results	User Logged in successfully
Test Case Result	Successful

## 2. Product Management:

This requirement had two modules, tested separately.

### 2.1. Add Products:

Identifier	SPM-1
Related Requirements	Shopkeeper's Product Management (Add products)
Short Description	Shopkeepers can add their products in their inventory
Pre-Conditions	Shopkeeper account created and logged in
Input Data	Product details (Image, Product Name, Description, Price, Category, Quantity)
Detailed Steps	<ol style="list-style-type: none"> <li>1. Navigate to the "Seller" section.</li> <li>2. Click on "Add New Products"</li> <li>3. Enter product details</li> <li>4. Click on "Add Product" button</li> </ol>
Expected Results	Product is successfully added to the shop inventory.
Post-Conditions	New product is visible in the shop's product list
Actual Results	Everything is working properly
Test Case Result	Successful

### 2.2. Remove Product:

Identifier	SPM-2
Related Requirements	Shopkeeper's Product Management (remove product)
Short Description	Shopkeepers can remove products from their inventory

Pre-Conditions	Shopkeeper account created and logged in
Input Data	Product to be removed
Detailed Steps	<ol style="list-style-type: none"> <li>1. Navigate to the "Seller" section</li> <li>2. Select the product to be removed from the shop inventory</li> <li>3. Click on "Delete" option</li> </ol>
Expected Results	Product is successfully removed from the shop's inventory
Post-Conditions	Removed product is no longer visible in the shop's product list
Actual Results	Everything is working properly
Test Case Result	Successful

### 3. Viewing Product:

Identifier	CPV-1
Related Requirements	Customer Product Viewing
Short Description	Customers can browse products offered by different shops
Pre-Conditions	Customer account created and logged in
Input Data	None
Detailed Steps	<ol style="list-style-type: none"> <li>1. Open the app</li> <li>2. Browse the "Buyer" section</li> <li>3. Browse available products</li> </ol>
Expected Results	Customer can view a list of available products
Post-Conditions	Customer can select products for purchase
Actual Results	Everything is working properly
Test Case Result	Successful

### 4. Order Placement:

Identifier	OP-1
Related Requirements	Order Placement
Short Description	Customers can place orders for products

Pre-Conditions	Customer account created and logged in
Input Data	Selected products for purchase
Detailed Steps	<ol style="list-style-type: none"> <li>1. Select the desired shop</li> <li>2. Select desired products</li> <li>3. Select Quantity</li> <li>4. Add them to the cart</li> <li>5. Proceed to checkout</li> <li>6. Confirm order</li> </ol>
Expected Results	Order is successfully placed and confirmed
Post-Conditions	Order is processed and ready for delivery
Actual Results	Everything is working properly
Test Case Result	Successful

## 5. Accepting Orders:

Identifier	ROA-1
Related Requirements	Rider Order Acceptance
Short Description	Riders can accept delivery requests from customers
Pre-Conditions	Rider account created and logged in
Input Data	None
Detailed Steps	<ol style="list-style-type: none"> <li>1. Open the app</li> <li>2. Open the Rider section</li> <li>3. Review available orders</li> <li>4. Accept an order</li> </ol>
Expected Results	Rider successfully accepts an order for delivery
Post-Conditions	Order is assigned to the rider for delivery
Actual Results	Everything is working properly
Test Case Result	Successful

## 6. Manage Account:

Identifier	AM-1
Related Requirements	Account Management
Short Description	Users can update their profile information
Pre-Conditions	User logged into their account
Input Data	Updated profile information
Detailed Steps	<ol style="list-style-type: none"><li>1. Navigate to "Manage Your Account" section</li><li>2. Update profile information</li><li>3. Click on "Update Profile" button</li></ol>
Expected Results	User account information is successfully updated
Post-Conditions	Updated information is reflected in the user's account
Actual Results	Everything is working properly
Test Case Result	Successful

## 7. Location Tracking:

Identifier	RTLT-1
Related Requirements	Real-Time Location Tracking
Short Description	Users and riders can be tracked in real-time during deliveries
Pre-Conditions	User or rider logged into the app
Input Data	None
Detailed Steps	<ol style="list-style-type: none"><li>1. Enable location services</li><li>2. Allow app access to location</li><li>3. App tracks user or rider location in real-time</li></ol>
Expected Results	User or rider location is accurately tracked
Post-Conditions	Location data is available for navigation and delivery purposes
Actual Results	Everything is working properly
Test Case Result	Successful

## 8. Maintain Order's History:

Identifier	COH-1
Related Requirements	Customers' Orders History
Short Description	Customers can view a list of their past orders
Pre-Conditions	Customer account created and logged in
Input Data	None
Detailed Steps	<ol style="list-style-type: none"><li>1. Navigate to "Order History" section</li><li>2. Review past orders</li></ol>
Expected Results	Customer can see a list of their previous orders
Post-Conditions	Order history is accessible for reference
Actual Results	Everything is working properly
Test Case Result	Successful

## 9. Maintain Cart:

Identifier	C-1
Related Requirements	Cart
Short Description	Users can manage items in their shopping cart
Pre-Conditions	User logged into their account
Input Data	Selected products for purchase
Detailed Steps	<ol style="list-style-type: none"><li>1. Navigate to the "Cart" section</li><li>2. Review items in the cart</li><li>3. Update quantity or remove items as needed</li></ol>
Expected Results	Cart is successfully updated with desired changes
Post-Conditions	Cart reflects the updated items and quantities
Actual Results	Everything is working properly
Test Case Result	Successful

## Summary of Test Results:

Module Name	Test cases run	Number of defects found	Number of defected corrected so far	Number of defects still need to be corrected
User Authentication	UA-1 & UA-2	0	0	0
Product Management	SPM-1 & SPM-2	0	0	0
Viewing Product	CPV-1	1	1	0
Order Placement	OP-1	0	0	0
Accepting Orders	ROA-1	0	0	0
Manage Account	AM-1	1	1	0
Location Tracking	RTLT-1	0	0	0
Maintain Order's History	COH-1	0	0	0
Maintain Cart	C-1	2	2	0
Complete System	11	4	4	0

Issue CPV-1, which indicates difficulty for users in viewing product data or photographs owing to large high quality images for products. In order to solve this, we had to update our products' images as high quality images loaded from the cloud database needed more time to load leading to delayed image viewing with slower internet . Significant gains in product viewing performance were verified by post-implementation testing, where we reported quicker loading times and more smoother navigation. All things considered, these adjustments successfully resolved the problem.

Issue AM-1 arose during the "Manage Account" module's testing, showing that synchronisation failures between the user interface and backend database were causing problems for users trying to update their profile information. To guarantee reliable data transfer, the approach required improving error handling methods and data synchronisation systems. Users may now

easily change their profile information, which enhances the user experience overall. Post-implementation testing confirmed the success of these updates.

Issues found in the 'Maintain Cart' area were quickly fixed by the development team after testing. The two faults that were reported, C-1, were quickly fixed. One of them was that the out of stock item remained in the cart and the order was that the product from the same shop added to cart in separate sessions were also stored separate. The logic for precise adjustments was improved, resolving problems with quantity updates. The problems were fixed, guaranteeing efficient cart administration. The effectiveness of these modifications was confirmed through post-resolution testing, guaranteeing users' error-free functioning.

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