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Online Purchasing System

ABC Supermarket Requirements

Specification

Version 1.0





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1. Supermarket Purchasing Process User Case

	FR1 Supermarket Purchasing process				
FR ID	FRI1.1 Create an new user account on the supermarket website or mobile application;				
	FRI1.2 Purchase products on the supermarket website or mobile application;				
Purpose	Functionality to allow the Customer to make a new purchase of products they require by: Creating a user account and making purchases on the supermarket website or mobile application Selecting their desired items; Adding their delivery address; Adding their payment details; Confirming their order to make a purchase; Receiving their products after delivery;				
Actors	Internal Actors	External Actors			
Actors	PackerDelivery Personnel	■ Customer			
Trigger	Customer runs out of products and requires to stock up;				
1119901	Resellers need stock for their business;				
	Customer runs out of products and requires to stock up;				
Pre-	• The customer has a reliable internet connection				
Conditions	 The customer has a registered account with the supermarket website or mobile application; The sustamer has added payment and delivery details to their assessment. 				
	 The customer has added payment and delivery details to their account; The customer has logged into their account; 				
	 The customer has logged into their account; The customer visits the supermarket website or mobile application's homepage with their login details; 				
	 The customer navigates through the various product categories or uses the search function to find the desired items; 				
	 The customer selects the desired items and adds them to the shopping cart; 				
	■ The customer reviews the shopping cart to ensure all desired items and quantities are correct;				
Basic Flow	■ The customer proceeds to the checkout process;				
Dasic Flow	 The customer enters a promotional code (if applicable); 				
	The system quantifies the promotional code and applies it if successful;				
	The customer selects the preferred delivery address from the available options;				
	The systems informs the customer of the next delivery time available;				
	 The customer selects the preferred payment method, either credit/debit card 	d, online banking, or mobile payment options;			

	 If the selected payment method is credit/debit card or mobile payment, the customer enters the required card or mobile payment details; 				
	 The customer reviews the order summary, delivery details, and payment information for accuracy; 				
	■ The customer confirms the order;				
	■ The system validates the payment method and processes the payment;				
	The API(POST) will create the new payment confirmation record in the payments table when the payment is successful;				
	■ The systems generates a new order record in the system;				
	The customer receives an order confirmation containing the details of the order and estimated delivery time;				
	■ The Packer prepares the order for delivery;				
	The delivery personnel delivers the order to the customer's specified address within the specified time slot;				
	The customer receives and inspects the delivered items;				
	If there are any issues with the delivered items, Then the customer contacts customer support for assistance;				
	Else everything is satisfactory, Then the customer completes the purchasing process;				
	EF1 Invalid Payment Method:				
	 If the selected payment method is invalid or cannot be processed, the customer is notified and prompted to select an alternative payment method.; 				
Exception Flows	 EF2 Incorrect Delivery Address: If the customer selects an invalid delivery address, the system notifies the customer and prompts them to choose a valid one; EF3 Change in delivery time: If the time suggested by the system for the next delivery time available lapses, the system notifies the customer on the next available time; EF4 Unavailable items: If any of the selected items are not available, the system notifies the customer and prompts them to choose an alternative; If customer chooses not to select alternatives refund the customer on the items they did not receive; If the stock manager identifies a significant stock shortage, they may need to order more items for stock to be available at all times; EF4 Invalid promotional Code: If the promotional code is invalid, the system notifies the customer and prompts them to enter a valid promotional code; 				
Post- Conditions	 The customer's chosen payment method is charged for the order. The customer's account is updated with the order details. The supermarket's inventory is updated accordingly. The order is marked as delivered in the system. 				

2. Supermarket Purchasing Process Functional Requirements Specification

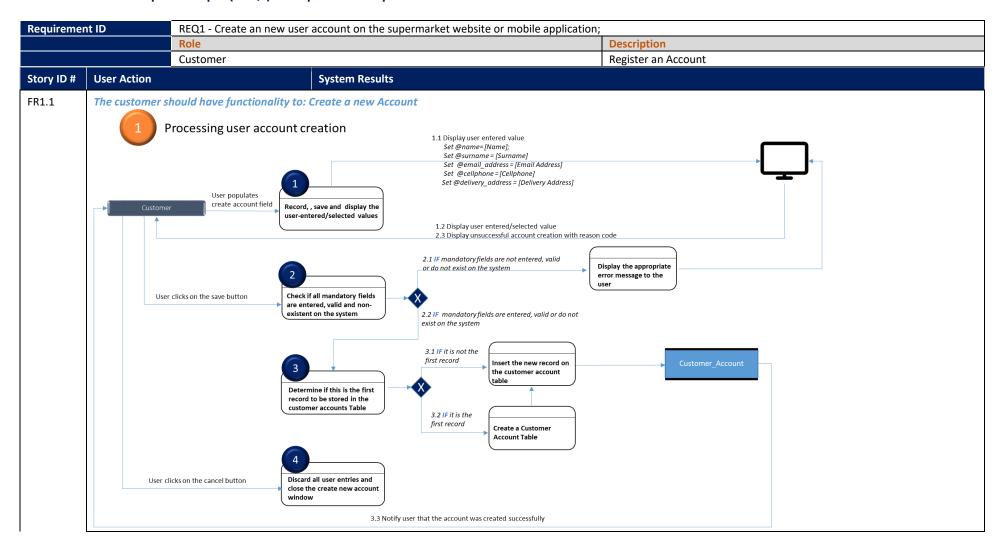
FR ID	FR1 Supermarket Purchasing process				
Description	The customer should be able to create an account, add delivery address, add payment details, purchase desired products and the purchased items gets delivered to their doorstep at the end of the process.				
Rules	 Only registered customers have access to the online supermarket purchasing system; Only valid customer payment details are required; 				
				Test Scope	
Key Dependencies	 Customer user account creation; Customer makes purchases on the online supermarket website or mobile app Customer receives purchased products 				
Trigger(s)	Supermarket online purchasing process Customer runs out of products and requires products; Resellers need stock for their business for convenience; Customer selects desired items Customer confirms shopping cart Customer adds payment and delivery details				
	REQ_ID	Functionality	Roles/Actors	AD Group	Requisite Access
	REQ1 - (FR1.1)	Create an new user account on the supermarket website or mobile application;	Customer	External User	Create New Account window: User must be able to: Read and Write Submit and Cancel
Test Scenarios	REQ2.1 - (FR1.2)	Purchase products on the supermarket website or mobile application;	Customer	External User	Purchasing home screen window: User must be able to: Read and Write Submit and Cancel
	REQ2.2 - (FR1.2)	Receive order details after payment confirmation	Packer	Internal User	Purchasing home screen window: User must be able to: Read and Write
Key Inputs and Outputs	Inputs			Outputs	

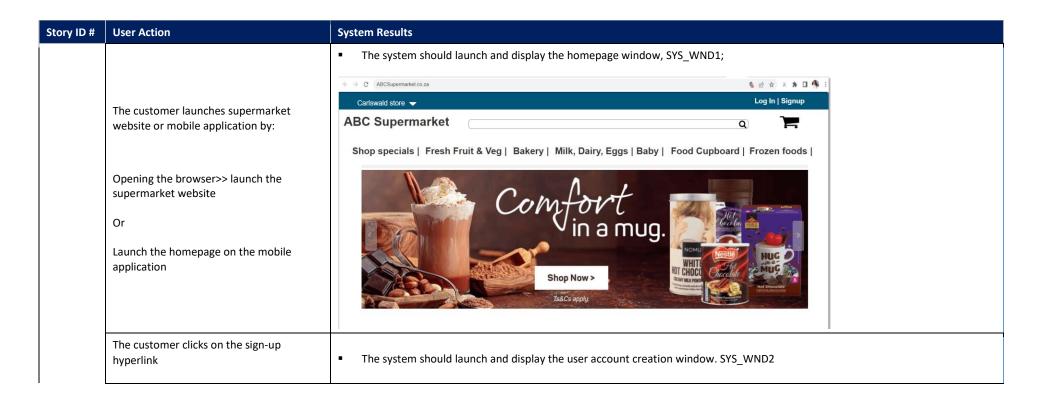
User selection and input:

- Customer registration details (name, surname, email, contact number, address, etc.)
- Product search queries
- Product selection and quantity
- Delivery address
- Payment method (credit/debit card, online banking, cash on delivery, etc.)
- Promotional codes or discounts (if applicable)

- User account creation confirmation;
- Product search results;
- Product details (name, description, price, availability, etc.);
- Shopping cart summary;
- Order confirmation message;
- Delivery schedule details;
- Invoice or receipt (via email or downloadable);
- Payment confirmation message;
- Order status updates (processing, dispatched, delivered);
- Customer support information for queries or issues

3. Sample example (REQ1) of requirements specification details





tory ID #	User Action	System Results
		Create New Account
		Name* Email* Cellphone* Delivery Address* agree to the Terms and Conditions am not a robo. Save Cancel
	The customer enters their name on the name text field	The name entered should be displayed on the name text field;
	The customer enters their surname on the surname text field	The surname entered should be displayed on the surname text field;
	The customer enters their email address on the email address text field	The email address entered should be displayed on the email text field;
	The customer enters their contact no. on the contact no. numeric field	 The contact no. entered should be displayed; The system should only allow numeric values
	The customer enters their delivery address on the delivery address text field	■ The delivery address entered should be displayed on the delivery address text field;

Story ID #	User Action	System Results
	The customer selects the save button	■ The system should: Check if this is the first record of the user accounts created, IF it is (id = 1) THEN the system should create a customer account table CREATE TABLE CustomerAcc (id INT PRIMARY KEY, name VARCHAR(50), surname VARCHAR(50), email_address VARCHAR(100), contact_number VARCHAR(20), delivery_address VARCHAR(100),); ELSE this is not the first record of the user accounts created (id≠1) THEN insert the new record created into the Customer account table INSERT INTO CustomerAccount (id, name, surname, email_address, contact_number, delivery_address) VALUES (1, ", ", ", ", ");
	The customer selects the cancel button	The system should discard all the user entries on the user account creation window;