

Bristol Regional Food Network

Digital Marketplace Platform – Test Cases

Introduction

This document provides comprehensive test cases for the Bristol Regional Food Network digital marketplace platform. These test cases are designed to validate system functionality from stakeholder perspectives, focusing on user stories and acceptance criteria rather than technical implementation details.

The test cases cover all key stakeholder groups: Producers, Customers (including young professionals, families, community groups, and restaurants), and System requirements.

Test Case Priority Guide

Test cases are designed based on user stories and categorised by priority to help plan sprint development:

Critical Priority: Core functionality required for minimum viable product. Should be implemented in Sprint 1 and early Sprint 2. System cannot function without these features.

High Priority: Important features that significantly enhance user experience and system utility. Should be implemented in Sprint 2 and early Sprint 3.

Medium Priority: Valuable features that add functionality and meet specific stakeholder needs. Should be implemented in Sprint 3 if time permits.

Low Priority: Enhancement features that improve community engagement but are not essential for core marketplace operations.

Testing Approach

Testing should be approached as follows:

1. Test cases focus on user-facing functionality and business logic, not just technical implementation choices. Features may be implemented using different technical approaches (primarily using Django and Docker) as long as acceptance criteria are met.
2. Payment processing should use test environments (Stripe Test Mode, PayPal Sandbox, or mock services). **Never use real payment systems or actual financial data.**
3. Test cases include edge cases and error handling scenarios. The developed system should handle both success and failure paths gracefully.
4. Security test cases (particularly **TC-022**) are mandatory and must be demonstrated regardless of priority. Authentication and authorisation are non-negotiable requirements.

Test Cases

TC-001: As a producer, I want to create an account so that I can list my products on the marketplace.

Test Case ID	TC-001
User Story	As a producer, I want to create an account so that I can list my products on the marketplace.
Stakeholder	Producer
Priority	Critical
Description	Validates that producers can successfully register for the marketplace platform with required business information and receive appropriate authentication credentials.
Preconditions	The system is accessible and running No existing account with the test email address
Test Steps	<ol style="list-style-type: none">1. Navigate to the producer registration page2. Enter business name: Bristol Valley Farm3. Enter contact name: Jane Smith4. Enter email: jane.smith@bristolvalleyfarm.com5. Enter phone: 01179 1234566. Enter business address and postcode: BS1 4DJ7. Enter password meeting security requirements8. Confirm password9. Submit registration form
Expected Results	Registration form accepts all valid inputs without error Account is created successfully with producer role Producer receives confirmation message Producer can log in with registered credentials Producer profile is accessible with entered business information
Acceptance Criteria	Producer account is created in the system Password is securely stored (hashed) Business information is correctly saved Producer can authenticate using email and password Appropriate producer permissions are assigned to the account

TC-002: As a customer, I want to register for an account so that I can browse and purchase local products.

Test Case ID	TC-002
User Story	As a customer, I want to register for an account so that I can browse and purchase local products.
Stakeholder	Customer (Young Professional/Family)

Priority	Critical
Description	Validates that customers can successfully create accounts with personal information and delivery address details for purchasing purposes.
Preconditions	The system is accessible and running No existing account with the test email address
Test Steps	<ol style="list-style-type: none"> 1. Navigate to the customer registration page 2. Enter full name: Robert Johnson 3. Enter email: robert.johnson@email.com 4. Enter phone: 07700 900123 5. Enter delivery address: 45 Park Street, Bristol 6. Enter postcode: BS1 5JG 7. Enter password meeting security requirements 8. Confirm password 9. Accept terms and conditions 10. Submit registration form
Expected Results	<p>Registration form accepts all valid inputs Customer account is created successfully Customer receives confirmation message Customer can log in with registered credentials Delivery address is stored for future orders</p>
Acceptance Criteria	<p>Customer account is created with appropriate role Personal information is securely stored Delivery address is saved and linked to customer profile Customer can authenticate successfully Customer has browsing and purchasing permissions</p>

TC-003: As a producer, I want to list a new product so that customers can find and purchase it.

Test Case ID	TC-003
User Story	As a producer, I want to list a new product so that customers can find and purchase it.
Stakeholder	Producer
Priority	Critical
Description	Validates that authenticated producers can successfully create product listings with all required information including seasonal availability.
Preconditions	Producer is logged in to the system Producer has a verified account
Test Steps	<ol style="list-style-type: none"> 1. Navigate to the product management section

	<ol style="list-style-type: none"> 2. Click 'Add New Product' 3. Enter product name: Organic Free Range Eggs 4. Select category: Dairy & Eggs 5. Enter detailed description: Fresh organic eggs from free-range hens, collected daily 6. Enter price: £3.50 per dozen 7. Enter unit: Dozen 8. Set availability: In Season (Available) 9. Enter stock quantity: 50 10. Add allergen information: Contains eggs 11. Set harvest date: Current date 12. Upload product image (optional) 13. Submit product listing
Expected Results	<p>Product form accepts all valid inputs</p> <p>Product is created and saved to the database</p> <p>Product appears in producer's product management dashboard</p> <p>Product becomes visible to customers in the marketplace</p> <p>All product details are correctly displayed</p>
Acceptance Criteria	<p>Product is linked to the authenticated producer</p> <p>All required fields are validated and stored</p> <p>Product appears in search and category browsing</p> <p>Seasonal availability status is correctly displayed</p> <p>Stock quantity is tracked for inventory management</p>

TC-004: As a customer, I want to browse products by category so that I can find specific items I need.

Test Case ID	TC-004
User Story	As a customer, I want to browse products by category so that I can find specific items I need.
Stakeholder	Customer (All types)
Priority	Critical
Description	Validates that customers can effectively browse products organised by categories such as vegetables, dairy, bakery, preserves, and seasonal specialties.
Preconditions	<p>Multiple products exist in different categories</p> <p>At least 5 products in the Vegetables category</p> <p>At least 3 products in the Dairy category</p>
Test Steps	<ol style="list-style-type: none"> 1. Navigate to the marketplace homepage 2. View the category navigation menu 3. Click on 'Vegetables' category 4. Observe displayed products 5. Return to main categories

	<p>6. Click on 'Dairy Products' category 7. Observe displayed products 8. Verify each product shows key information: name, price, farm origin, availability</p>
Expected Results	<p>Category navigation is clearly visible Clicking 'Vegetables' displays only vegetable products Clicking 'Dairy Products' displays only dairy products Each category shows appropriate products with correct categorization Products display name, price, producer name, and availability status Category pages load without errors</p>
Acceptance Criteria	<p>Products are correctly categorised Category filtering works accurately Only products marked as 'Available' or 'In Season' are displayed Product information is complete and readable Navigation between categories is intuitive</p>

TC-005: As a customer, I want to search for specific products so that I can quickly find what I need.

Test Case ID	TC-005
User Story	As a customer, I want to search for specific products so that I can quickly find what I need.
Stakeholder	Customer (All types)
Priority	High
Description	Validates that the search functionality enables customers to locate products efficiently using product names, descriptions, or producer names.
Preconditions	<p>Multiple products exist in the database Products have descriptive names and detailed descriptions Search functionality is enabled</p>
Test Steps	<p>1. Navigate to the marketplace homepage 2. Locate the search bar 3. Enter search term: tomatoes 4. Submit search 5. Observe search results 6. Clear search 7. Enter search term: organic 8. Submit search 9. Observe search results including products from different categories 10. Test edge case: Enter non-existent product name 11. Observe empty results handling</p>
Expected Results	Search bar is visible and accessible

	<p>Searching for 'tomatoes' returns all tomato products</p> <p>Searching for 'organic' returns all products with 'organic' in name or description</p> <p>Search results display product name, price, producer, and category</p> <p>Search for non-existent items shows appropriate 'no results found' message</p> <p>Search is case-insensitive</p>
Acceptance Criteria	<p>Search queries return relevant results based on product name</p> <p>Search queries return relevant results based on product description</p> <p>Search functionality handles partial matches appropriately</p> <p>Empty search results are handled gracefully</p> <p>Search performance is acceptable</p>

TC-006: As a customer, I want to add products to my shopping cart so that I can purchase multiple items together.

Test Case ID	TC-006
User Story	As a customer, I want to add products to my shopping cart so that I can purchase multiple items together.
Stakeholder	Customer (All types)
Priority	Critical
Description	Validates that customers can add products to a shopping cart, modify quantities, and view cart contents before proceeding to checkout.
Preconditions	<p>Customer is logged in</p> <p>Multiple products are available for purchase</p> <p>Shopping cart functionality is enabled</p>
Test Steps	<ol style="list-style-type: none"> 1. Browse or search for a product: Organic Carrots 2. Click on the product to view details 3. Select quantity: 2 kg 4. Click 'Add to Cart' 5. Observe confirmation message 6. Navigate to another product: Fresh Milk 7. Select quantity: 3 litres 8. Click 'Add to Cart' 9. Click on cart icon to view cart contents 10. Verify both products appear with correct quantities and prices 11. Modify quantity of Organic Carrots to 3 kg 12. Observe updated total price
Expected Results	<p>Products can be added to cart successfully</p> <p>Cart icon displays item count</p> <p>Cart page shows all added products with correct details</p> <p>Individual item prices and total cart price are calculated correctly</p> <p>Quantity modifications update prices in real-time</p>

	Cart persists during the browsing session
Acceptance Criteria	<p>Cart maintains state for logged-in customers Item quantities can be modified Price calculations are accurate Cart displays producer information for multi-vendor awareness Items can be removed from cart</p>

TC-007: As a customer, I want to place an order from a single producer so that I can purchase their products.

Test Case ID	TC-007
User Story	As a customer, I want to place an order from a single producer so that I can purchase their products.
Stakeholder	Customer (All types)
Priority	Critical
Description	Validates the complete checkout process for orders containing products from a single producer, including payment processing and order confirmation.
Preconditions	<p>Customer is logged in with delivery address Cart contains products from only one producer Payment system is configured (test mode) Producer has at least 48 hours lead time setting</p>
Test Steps	<ol style="list-style-type: none"> 1. Add products from 'Bristol Valley Farm' to cart 2. Navigate to cart page 3. Review cart contents confirming single producer 4. Click 'Proceed to Checkout' 5. Verify delivery address is pre-filled 6. Select delivery date (minimum 48 hours from now) 7. Review order summary showing producer details 8. Choose payment method 9. Enter test payment details (use test sandbox credentials) 10. Confirm order
Expected Results	<p>Checkout page loads with correct cart contents Delivery address is displayed and can be edited Delivery date selector enforces minimum 48-hour lead time Order summary shows itemised products, subtotal, and 5% commission Payment is processed successfully (test mode) Order confirmation page displays with order number Customer receives order confirmation details Producer receives notification of new order</p>
Acceptance Criteria	<p>Order is created in the database with 'Pending' status Payment transaction is recorded</p>

	<p>5% network commission is calculated and recorded</p> <p>Producer payment (95% of order value) is calculated</p> <p>Order details include delivery date and customer information</p> <p>Both customer and producer can view the order</p>
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TC-008: As a customer, I want to place an order from multiple producers so that I can purchase various products in one transaction.

Test Case ID	TC-008
User Story	As a customer, I want to place an order from multiple producers so that I can purchase various products in one transaction.
Stakeholder	Customer (All types)
Priority	Critical
Description	Validates the multi-vendor checkout process including clear separation of producer responsibilities, individual delivery arrangements, and payment distribution.
Preconditions	<p>Customer is logged in</p> <p>Cart contains products from at least 2 different producers</p> <p>Payment system is configured (test mode)</p>
Test Steps	<ol style="list-style-type: none"> 1. Add 2 products from 'Bristol Valley Farm' to cart 2. Add 2 products from 'Hillside Dairy' to cart 3. Navigate to cart 4. Verify products are grouped by producer 5. Click 'Proceed to Checkout' 6. Review order summary showing separate sections for each producer 7. Note individual producer delivery information 8. Select delivery dates for each producer (may differ based on their lead time) 9. Review total cost breakdown showing per-producer subtotals 10. Enter payment details 11. Confirm multi-vendor order
Expected Results	<p>Cart clearly groups products by producer</p> <p>Checkout displays separate sections for each producer</p> <p>Each producer section shows their delivery requirements and timeline</p> <p>Order can have different delivery dates per producer</p> <p>Payment is split appropriately with 5% commission calculated on total</p> <p>Each producer (95% of their items) receives separate payment allocation</p> <p>Order confirmation shows clear breakdown by producer</p> <p>Each producer receives notification only for their portion</p>
Acceptance Criteria	<p>Multi-vendor order is recorded as single customer order</p> <p>Individual producer sub-orders are created and linked</p>

	<p>Payment distribution is calculated correctly per producer</p> <p>Network commission (5%) is calculated on total order value</p> <p>Each producer can view only their relevant order items</p> <p>Customer can track all items in one order view</p>
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TC-009: As a producer, I want to view incoming orders so that I can prepare products for delivery.

Test Case ID	TC-009
User Story	As a producer, I want to view incoming orders so that I can prepare products for delivery.
Stakeholder	Producer
Priority	Critical
Description	Validates that producers can access a dashboard showing all incoming orders with adequate lead time and complete customer details for preparation and delivery.
Preconditions	Producer is logged in At least 3 orders have been placed for this producer's products Orders have different delivery dates
Test Steps	<ol style="list-style-type: none"> Log in as producer Navigate to 'Orders' or 'Order Management' section View list of incoming orders Observe order display includes: order number, customer name, order date, delivery date, items ordered, total value Click on a specific order to view full details Review detailed order showing: customer contact information, delivery address, itemised product list with quantities, special instructions (if any) Check that orders are sorted by delivery date Verify all orders show minimum 48-hour lead time from order date to delivery date
Expected Results	<p>Producer can access order management dashboard</p> <p>All orders for producer's products are visible</p> <p>Orders display essential preparation information</p> <p>Delivery dates respect 48-hour minimum lead time</p> <p>Producer can view complete customer details for each order</p> <p>Orders can be filtered or sorted by delivery date, status</p> <p>Order statuses are clearly indicated (Pending, Confirmed, Ready, Delivered)</p>
Acceptance Criteria	<p>Only orders containing producer's products are visible</p> <p>Multi-vendor orders show only this producer's items</p> <p>Customer contact information is accessible for delivery coordination</p> <p>Order information is accurate and complete</p>

	Producer cannot access other producers' orders
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TC-010: As a producer, I want to update the status of orders so that customers know when their products are ready.

Test Case ID	TC-010
User Story	As a producer, I want to update the status of orders so that customers know when their products are ready.
Stakeholder	Producer
Priority	High
Description	Validates that producers can update order statuses through the order lifecycle and customers receive appropriate notifications.
Preconditions	Producer is logged in At least one order exists with 'Pending' status Order has passed 48-hour preparation window
Test Steps	<ol style="list-style-type: none"> 1. Navigate to order management dashboard 2. Select an order with 'Pending' status 3. Click 'Update Status' or similar action 4. Change status to 'Confirmed' 5. Add optional note: Products will be prepared by delivery date 6. Save status update 7. Observe order now shows 'Confirmed' status 8. Later, update same order status to 'Ready for Collection/Delivery' 9. Save status update 10. Verify customer receives notification (check customer account)
Expected Results	Producer can change order status Status updates are saved and reflected immediately Order history shows status change timeline Optional notes can be added to status updates Customer sees updated status in their order view Appropriate notifications are triggered for status changes Status changes are logged with timestamp and producer information
Acceptance Criteria	Order status follows logical progression (Pending → Confirmed → Ready → Delivered) Status cannot skip required stages Customer view updates to reflect new status Audit trail maintains all status changes Only the relevant producer can update their order portion

TC-011: As a producer, I want to update my product inventory so that customers only see available products I have.

Test Case ID	TC-011
User Story	As a producer, I want to update my product inventory so that customers only see available products I have.
Stakeholder	Producer
Priority	High
Description	Validates that producers can modify product availability and stock quantities without requiring technical expertise.
Preconditions	Producer is logged in Producer has at least 3 listed products Products have various stock levels
Test Steps	<ol style="list-style-type: none"> 1. Navigate to product management dashboard 2. View list of all producer's products 3. Select a product: Organic Tomatoes (current stock: 20 kg) 4. Click 'Edit' or 'Update Stock' 5. Change stock quantity to 35 kg 6. Change availability status to 'In Season' 7. Save changes 8. Select another product that is out of stock 9. Change availability status to 'Out of Season' or 'Unavailable' 10. Save changes 11. Verify updated products reflect changes in customer marketplace view
Expected Results	Producer can access and edit all their products Stock quantity updates save successfully Availability status updates save successfully Products marked 'Unavailable' are hidden from customer browsing Products marked 'In Season' appear in customer searches Stock quantity displays correctly to customers Changes take effect immediately
Acceptance Criteria	Producer can only edit their own products Stock updates are validated (non-negative numbers) Availability changes immediately affect customer visibility Product update history is maintained Updates trigger appropriate inventory alerts if stock is low

TC-012: As a producer, I want to receive weekly payment settlements so that I can manage my business finances.

Test Case ID	TC-012
User Story	As a producer, I want to receive weekly payment settlements so that I can manage my business finances.
Stakeholder	Producer

Priority	Critical
Description	Validates the payment settlement system that distributes 95% of order value to producers weekly with transparent audit trails.
Preconditions	Producer has completed orders from the previous week Payment week has ended (Sunday midnight) Orders have been delivered/completed Payment system is configured
Test Steps	<ol style="list-style-type: none"> 1. Producer logs in on Monday after settlement week 2. Navigate to 'Payments' or 'Financial Reports' section 3. View weekly payment summary for completed week 4. Observe payment details showing: total orders value, 5% network commission deducted, 95% producer payment amount, individual order breakdown 5. Download payment report for tax records 6. Verify payment report includes: order numbers, customer names (anonymised if needed), product items sold, dates, amounts, commission breakdown 7. Check that payment status shows 'Processed' or 'Pending Bank Transfer' 8. Verify running total for the tax year is displayed
Expected Results	<p>Weekly payment summary is accessible and accurate All completed orders from the week are included 5% commission is correctly calculated and deducted 95% producer payment is correctly calculated Payment report is downloadable in PDF or CSV format Report includes all necessary information for tax reporting Payment transaction ID or reference is provided Historical payment records are accessible</p>
Acceptance Criteria	<p>Payment calculations are accurate to 2 decimal places Only completed/delivered orders are included in settlements Payment reports are suitable for business accounting and tax filing Settlement timeline adheres to weekly schedule Producer can track payment status Audit trail links payments to specific orders</p>

TC-013: As a customer, I want to view food miles for products so that I can make environmentally conscious purchases.

Test Case ID	TC-013
User Story	As a customer, I want to view food miles for products so that I can make environmentally conscious purchases.
Stakeholder	Customer (All types)
Priority	Medium

Description	Validates the environmental reporting feature that calculates and displays food miles based on customer postcode and producer farm location.
Preconditions	<p>Customer is logged in with postcode on record Customer postcode: BS1 5JG Producer farm locations are recorded in the system Products are associated with producer locations</p>
Test Steps	<ol style="list-style-type: none"> 1. Browse products in any category 2. View a product from 'Bristol Valley Farm' (located at BS1 4DJ) 3. Observe food miles display on product details 4. Note the calculated distance in miles 5. Browse a product from a producer further away (e.g., 15 miles) 6. Compare food miles between products 7. Add both products to cart 8. View cart page 9. Observe total food miles calculation for the order 10. Verify calculation is sum of individual product distances
Expected Results	<p>Food miles are displayed for each product Distance calculation is based on straight-line or road distance between customer postcode and producer location Food miles are shown prominently (e.g., badge, icon with number) Products from closer producers show lower food miles Cart view displays cumulative food miles for all items Food miles contribute to sustainability awareness</p>
Acceptance Criteria	<p>Distance calculation is accurate based on postcodes All products display food miles information Food miles update if customer changes delivery address Visual representation is clear and easy to understand Calculation supports the network's 20-mile radius commitment</p>

TC-014: As a customer, I want to filter products by organic certification so that I can find certified organic items.

Test Case ID	TC-014
User Story	As a customer, I want to filter products by organic certification so that I can find certified organic items.
Stakeholder	Customer (Young Professional/Family)
Priority	Medium
Description	Validates quality assurance features allowing customers to filter and identify products with organic certification status.
Preconditions	<p>Multiple products exist with varying organic certification statuses At least 5 products are marked as 'Certified Organic' At least 5 products are marked as 'Not Certified'</p>

Test Steps	<ol style="list-style-type: none"> 1. Navigate to product browsing page 2. Locate filtering options 3. Select 'Organic Certification' filter 4. Enable filter for 'Certified Organic' only 5. Observe filtered product results 6. Verify all displayed products show organic certification badge/indicator 7. Click on a filtered product to view details 8. Verify product details show organic certification information 9. Clear filter and observe all products return 10. Test edge case: Apply organic filter when no organic products are in current category
Expected Results	<p>Filter correctly displays only certified organic products All filtered products display organic certification indicator Product details page shows certification status clearly Non-certified products are excluded from filtered results Filter can be easily applied and removed Empty results show appropriate message when no organic products exist in filter criteria</p>
Acceptance Criteria	<p>Organic certification status is accurately maintained for each product Filter works consistently across all product categories Visual indicators clearly distinguish certified vs non-certified products Filter combines logically with other filters (category, price, availability) Producers can set certification status when listing products</p>

TC-015: As a customer, I want to see allergen warnings clearly displayed so that I can avoid products that may harm me or my family.

Test Case ID	TC-015
User Story	As a customer, I want to see allergen warnings clearly displayed so that I can avoid products that may harm me or my family.
Stakeholder	Customer (All types)
Priority	Critical
Description	Validates that allergen information is prominently displayed for food safety and customer protection, supporting compliance with food safety regulations.
Preconditions	<p>Products have allergen information recorded At least 3 products contain common allergens (dairy, eggs, nuts, gluten) Some products have no allergens</p>
Test Steps	<ol style="list-style-type: none"> 1. Browse to a product containing dairy: Cheddar Cheese 2. View product details page 3. Locate allergen information display

	4. Verify 'Contains: Milk' is clearly displayed 5. Browse to a product containing multiple allergens: Walnut Bread 6. Verify multiple allergens are listed: 'Contains: Wheat (Gluten), Nuts (Walnuts)' 7. Browse to a product with no allergens: Fresh Apples 8. Verify allergen section displays 'No common allergens' or equivalent 9. Search for products containing 'nuts' 10. Verify search results or filters allow allergen-based searching
Expected Results	Allergen information is displayed prominently on product details page Allergen warnings use clear, standard language Multiple allergens are listed individually Products without allergens clearly state this Allergen information is visible before adding to cart Visual design makes allergen warnings stand out (e.g., warning icon, distinct colour) All 14 major allergens recognised by UK law can be specified
Acceptance Criteria	Producers must provide allergen information when listing products Allergen information cannot be omitted for food products Display meets food safety labelling requirements Customers can filter products by allergen presence/absence System prevents ordering without viewing allergen information

TC-016: As a producer, I want to set seasonal availability for my products so that customers know when items are in season.

Test Case ID	TC-016
User Story	As a producer, I want to set seasonal availability for my products so that customers know when items are in season.
Stakeholder	Producer
Priority	High
Description	Validates that producers can manage seasonal availability without technical expertise and that customers see accurate seasonal indicators.
Preconditions	Producer is logged in Producer has multiple products with different seasonal patterns System supports seasonal availability settings
Test Steps	1. Navigate to product management 2. Select product: Strawberries 3. Edit product availability 4. Set availability to 'In Season' 5. Set seasonal dates: June - August 6. Save changes

	<p>7. Select product: Stored Potatoes</p> <p>8. Set availability to 'Available Year-Round'</p> <p>9. Save changes</p> <p>10. Log out and log in as customer</p> <p>11. Browse products and observe seasonal indicators</p> <p>12. Verify Strawberries show 'In Season' badge</p> <p>13. Verify seasonal dates are displayed (e.g., 'Available: June - August')</p> <p>14. Verify year-round products don't show seasonal restrictions</p>
Expected Results	<p>Producers can easily set seasonal availability</p> <p>Seasonal date ranges can be specified</p> <p>Products marked as seasonal display appropriate indicators to customers</p> <p>Out-of-season products are hidden or marked as unavailable</p> <p>In-season products are highlighted or badged</p> <p>System can automatically update availability based on current date and seasonal settings</p>
Acceptance Criteria	<p>Seasonal settings are intuitive for non-technical users</p> <p>Automatic date-based availability updates work correctly</p> <p>Customers cannot order out-of-season products</p> <p>Seasonal information educates customers about local food systems</p> <p>Producers receive reminders when seasonal products are about to become available</p>

TC-017: As a community group representative, I want to place bulk orders from multiple producers for catering needs.

Test Case ID	TC-017
User Story	As a community group representative, I want to place bulk orders from multiple producers for catering needs.
Stakeholder	Customer (Community Group)
Priority	Medium
Description	Validates that community groups can create accounts and place larger orders with multiple suppliers for institutional catering purposes.
Preconditions	Community group account type exists in system Multiple products are available from different producers Bulk ordering functionality is enabled
Test Steps	<ol style="list-style-type: none"> 1. Register as community group: St. Mary's School 2. Provide organization details and charity/education status 3. Complete registration with institutional email: catering@stmarysschool.org.uk 4. Log in as community group account

	<p>5. Browse and add multiple products with larger quantities: 50 kg potatoes, 30 litres milk, 20 kg carrots</p> <p>6. Products come from 3 different producers</p> <p>7. Proceed to checkout</p> <p>8. Enter delivery address: school address</p> <p>9. Select delivery date allowing for producer lead times</p> <p>10. Add special instructions: Delivery to kitchen entrance, contact kitchen manager</p> <p>11. Review order summary showing breakdown by producer</p> <p>12. Complete payment for bulk order</p> <p>13. Receive confirmation with producer contact details for coordination</p>
Expected Results	<p>Community group can register with appropriate account type</p> <p>System accepts larger quantity orders</p> <p>Checkout handles multi-vendor bulk orders</p> <p>Special delivery instructions can be provided</p> <p>Order confirmation includes all relevant supplier contacts</p> <p>Account may have different features (e.g., invoice payment, bulk discounts if applicable)</p> <p>Producers receive bulk order notifications with lead time</p>
Acceptance Criteria	<p>Community group accounts are distinguished from individual customers</p> <p>Bulk quantities are validated against producer capacity</p> <p>Special delivery requirements are communicated to all producers</p> <p>Payment terms may differ for institutional buyers</p> <p>System facilitates coordination between multiple suppliers and institution</p>

TC-018: As a restaurant owner, I want to establish regular weekly orders so that I can simplify sourcing local ingredients.

Test Case ID	TC-018
User Story	As a restaurant owner, I want to establish regular weekly orders so that I can simplify sourcing local ingredients.
Stakeholder	Customer (Independent Restaurant)
Priority	Medium
Description	Validates that business customers can set up recurring orders to reduce administrative overhead of managing multiple small supplier relationships.
Preconditions	Restaurant business account is created and verified Multiple products from various producers are available Recurring order functionality exists
Test Steps	1. Log in as restaurant account: The Clifton Kitchen

	<ol style="list-style-type: none"> 2. Create initial order with required weekly ingredients 3. Add products from multiple producers: fresh vegetables, dairy, bakery items 4. Set specific quantities for each item 5. Before completing checkout, select 'Make this a recurring order' 6. Set recurrence: Every Monday 7. Set delivery date: Every Wednesday 8. Review recurring order summary 9. Confirm recurring order setup 10. View 'Recurring Orders' management page 11. Verify order appears with next scheduled date 12. Modify next week's order (increase quantity of one item) 13. Verify modification applies only to next order, not the template
Expected Results	<p>Restaurant can create recurring order template Recurrence schedule (weekly, fortnightly) can be set Delivery day can be specified Recurring order automatically generates new orders on schedule Each scheduled order can be individually modified before confirmation Producers receive advance notice of recurring orders Restaurant can pause, modify, or cancel recurring orders System handles producer availability changes in recurring orders</p>
Acceptance Criteria	<p>Recurring order template maintains product selections and quantities Automatic order generation respects producer lead time requirements Individual order instances can be edited without affecting template Payment is processed for each recurring order instance Notifications are sent to restaurant before each order processes Unavailable products in recurring orders trigger alerts</p>

TC-019: As a producer, I want to communicate surplus produce with discounts so that I can reduce food waste.

Test Case ID	TC-019
User Story	As a producer, I want to communicate surplus produce with discounts so that I can reduce food waste.
Stakeholder	Producer
Priority	Medium
Description	Validates the surplus produce feature allowing producers to offer last-minute discounts on excess inventory to prevent food waste.
Preconditions	Producer is logged in Producer has products with stock that needs to be sold quickly Surplus produce feature is enabled
Test Steps	<ol style="list-style-type: none"> 1. Navigate to product management

	<ol style="list-style-type: none"> 2. Select product with surplus stock: Lettuce (50 heads available, best before 3 days) 3. Click 'Mark as Surplus' or 'Last Minute Deal' 4. Set discount percentage: 30% off 5. Set expiry date for deal: 48 hours 6. Add note: 'Perfect condition, must sell quickly to avoid waste' 7. Save surplus listing 8. Verify product appears in 'Surplus Deals' section for customers 9. Log in as customer 10. Navigate to 'Surplus Deals' or 'Last Minute Offers' 11. View discounted lettuce with clear discount badge 12. Observe original and discounted price 13. Add surplus item to cart and verify discounted price applies 14. Complete purchase at reduced price
Expected Results	<p>Producer can mark products as surplus with discount</p> <p>Surplus products appear in dedicated section for customers</p> <p>Discount is prominently displayed</p> <p>Urgency is communicated (time remaining, best before date)</p> <p>Discounted price is correctly calculated and applied at checkout</p> <p>Surplus deals are highlighted in customer interface</p> <p>Deals expire automatically after specified time</p> <p>System supports community food waste reduction objectives</p>
Acceptance Criteria	<p>Discount percentage is validated (e.g., 10-50% range)</p> <p>Surplus items maintain all quality and allergen information</p> <p>Deal expiry is enforced automatically</p> <p>Producers can remove surplus status if stock sells out</p> <p>Customers receive notifications about surplus deals from favourite producers</p> <p>Analytics track food waste reduction impact</p>

TC-020: As a producer, I want to share recipes and farm stories so that I can engage with the community and educate customers.

Test Case ID	TC-020
User Story	As a producer, I want to share recipes and farm stories so that I can engage with the community and educate customers.
Stakeholder	Producer
Priority	Low
Description	Validates educational features allowing producers to share seasonal recipes, storage guidance, and farm stories to strengthen community connections.
Preconditions	Producer is logged in Content management feature is available for producers Products exist that can be linked to recipes

Test Steps	<ol style="list-style-type: none"> 1. Navigate to 'Content' or 'Farm Stories' section 2. Click 'Add New Recipe' 3. Enter recipe title: Roasted Root Vegetable Medley 4. Add recipe description and ingredients list 5. Link recipe to products: Carrots, Parsnips, Potatoes (from producer's inventory) 6. Upload recipe image 7. Add cooking instructions 8. Select seasonal tag: Autumn/Winter 9. Publish recipe 10. Create farm story post about harvest season 11. Add photos from farm 12. Publish story 13. Log in as customer 14. View product page for Carrots 15. Observe 'Recipe Suggestions' section showing linked recipes 16. Click through to view full recipe 17. Navigate to producer profile page 18. View farm stories and educational content
Expected Results	<p>Producer can create and publish recipes Recipes can be linked to specific products Recipes appear on relevant product pages Farm stories are visible on producer profile Content includes images and formatted text Seasonal tags help organise content Customers can access educational content easily Content strengthens producer-customer connection</p>
Acceptance Criteria	<p>Recipe format is user-friendly and readable Product links are clickable and lead to purchase options Content is appropriately moderated Customers can save favourite recipes Content supports local food education objectives Storage guidance helps customers maximise product freshness</p>

TC-021: As a customer, I want to view my order history so that I can reorder favourite products and track past purchases.

Test Case ID	TC-021
User Story	As a customer, I want to view my order history so that I can reorder favourite products and track past purchases.
Stakeholder	Customer (All types)
Priority	High
Description	Validates that customers can access complete order history with details and have the ability to quickly reorder previous purchases.

Preconditions	Customer is logged in Customer has completed at least 3 orders in the past Orders include various products and producers
Test Steps	<ol style="list-style-type: none"> 1. Navigate to 'My Account' or 'Order History' 2. View list of past orders sorted by date (most recent first) 3. Observe each order displays: order number, order date, delivery date, producer names, total amount, order status 4. Click on a completed order to view full details 5. View itemised list of products with quantities and prices 6. View delivery address and payment information (partially masked) 7. Click 'Reorder' button on a previous order 8. Observe items are added to current cart 9. Verify product availability is checked 10. Adjust quantities if needed 11. Proceed to checkout
Expected Results	<p>Order history is accessible and complete Orders are sorted chronologically Full order details are retrievable Reorder function simplifies repeat purchases Unavailable products in reorder are flagged Customer can filter orders by date range or producer Order status is clearly indicated Multi-vendor orders show producer breakdown</p>
Acceptance Criteria	<p>All historical orders are permanently accessible Order details match original purchase information Reorder function handles product availability changes gracefully Payment information is secure and appropriately masked Order history supports customer record-keeping needs Can download order receipts for past purchases</p>

TC-022: As a system administrator, I want to ensure secure authentication so that user accounts and data are protected.

Test Case ID	TC-022
User Story	As a system administrator, I want to ensure secure authentication so that user accounts and data are protected.
Stakeholder	System (Security Requirement)
Priority	Critical
Description	Validates authentication and authorisation mechanisms ensuring secure access control for all user types with appropriate permissions.
Preconditions	<p>System is configured with authentication system User roles exist: Customer, Producer, Community Group, Restaurant, Admin</p>

	Test accounts exist for each role
Test Steps	<ol style="list-style-type: none"> 1. Test Case 1: Password Security 2. Attempt to register with weak password: '123' 3. Verify system rejects and shows password requirements 4. Register with strong password meeting requirements 5. Verify password is hashed in database (not stored as plain text) 6. Test Case 2: Login Security 7. Attempt login with incorrect password 8. Verify appropriate error message (without revealing if user exists) 9. Attempt login with correct credentials 10. Verify successful authentication and session creation 11. Test Case 3: Authorisation 12. Log in as customer 13. Attempt to access producer-only features (add/edit products) 14. Verify access is denied with appropriate error 15. Log in as producer 16. Verify access to producer features is granted 17. Attempt to view other producer's order details 18. Verify access is denied 19. Test Case 4: Session Management 20. Log in and establish session 21. Close browser and reopen 22. Verify session persists if 'remember me' was selected 23. Log out explicitly 24. Verify session is terminated and protected pages require re-login
Expected Results	<p>Password policy is enforced (minimum length, complexity)</p> <p>Passwords are securely hashed using industry-standard algorithm</p> <p>Failed login attempts are logged</p> <p>Brute force protection is in place (rate limiting)</p> <p>Authorisation checks prevent unauthorised feature access</p> <p>Users can only access their own data</p> <p>Sessions are managed securely with appropriate timeouts</p> <p>Logout fully terminates session</p>
Acceptance Criteria	<p>Role-based access control (RBAC) is appropriately implemented</p> <p>Passwords meet minimum security standards</p> <p>SQL injection attempts are prevented</p> <p>Cross-site scripting (XSS) is mitigated</p> <p>Session tokens are secure and unguessable</p> <p>Security logging captures authentication events</p>

TC-023: As a producer, I want to receive a notification when stock for a product runs low so that I can restock before orders fail.

Test Case ID	TC-023
User Story	As a producer, I want to receive a notification when stock for a product runs low so that I can restock before orders fail.
Stakeholder	Producer
Priority	Medium
Description	Validates inventory management alerts that notify producers when product stock levels reach defined thresholds.
Preconditions	Producer is logged in Products have stock quantities tracked Low stock threshold feature is enabled Notification system is configured
Test Steps	<ol style="list-style-type: none"> 1. Navigate to product management 2. Edit product: Fresh Eggs 3. Set current stock: 50 dozen 4. Set low stock threshold: 10 dozen 5. Save settings 6. Simulate orders that reduce stock to 12 dozen (above threshold) 7. Verify no low stock alert 8. Simulate additional orders reducing stock to 9 dozen (below threshold) 9. Verify low stock notification is generated 10. Check notification centre/dashboard for alert 11. Observe alert message: 'Low Stock Alert: Fresh Eggs - Only 9 dozen remaining' 12. Update stock to 40 dozen 13. Verify low stock alert is cleared/resolved
Expected Results	Producer can set low stock thresholds per product System monitors stock levels automatically Notification is generated when stock falls below threshold Alert is displayed in producer dashboard Email notification is sent to producer (optional setting) Alert includes product name and current stock level Alert is resolved when stock is replenished above threshold Prevents accepting orders for out-of-stock items
Acceptance Criteria	Stock tracking is accurate and real-time Threshold settings are flexible per product Multiple notification methods are supported Alerts help prevent order fulfilment failures System can temporarily hide products from customer view when out of stock Stock levels are automatically decremented when orders are placed

TC-024: As a customer, I want to rate and review products so that I can share my experience and help other customers make informed decisions.

Test Case ID	TC-024
User Story	As a customer, I want to rate and review products so that I can share my experience and help other customers make informed decisions.
Stakeholder	Customer (All types)
Priority	Medium
Description	Validates the review and rating system allowing customers to provide feedback on purchased products, supporting community trust and quality assurance.
Preconditions	Customer is logged in Customer has completed at least one order that has been delivered Review system is enabled At least one delivered order contains product: Organic Tomatoes
Test Steps	1. Navigate to order history 2. Open a completed/delivered order 3. Locate product: Organic Tomatoes 4. Click 'Write Review' or 'Rate Product' 5. Enter star rating: 5 stars 6. Enter review title: Excellent quality and flavour 7. Enter review text: These tomatoes were incredibly fresh and flavourful. Perfect for our family's salads. Will definitely order again. 8. Submit review 9. Navigate to product page for Organic Tomatoes 10. Verify review appears in product reviews section 11. Observe average rating is updated to reflect new review 12. Verify review shows customer name (or anonymous option), date, and verified purchase badge 13. Test edge case: Attempt to review product from order not yet delivered 14. Verify system prevents reviewing until order is delivered 15. Test edge case: Attempt to review same product multiple times 16. Verify system allows only one review per product per customer
Expected Results	Customer can submit reviews only for purchased products Reviews are linked to delivered orders (verified purchase) Rating (1-5 stars) and text review can be submitted Reviews appear on product page for other customers to view Average rating is calculated and displayed Customer name is displayed (or anonymous option is honoured) Review date is shown System prevents duplicate reviews from same customer Reviews cannot be submitted until order is delivered
Acceptance Criteria	Review system verifies purchase before allowing submission Rating scale is clear and consistent (1-5 stars)

	<p>Reviews are moderated for inappropriate content if needed</p> <p>Producers can respond to reviews</p> <p>Reviews contribute to product quality reputation</p> <p>Aggregate ratings help customers make informed choices</p> <p>System prevents fraudulent or spam reviews</p>
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TC-025: As a system administrator, I want to monitor the network commission calculations so that I can ensure financial accuracy and generate reports.

Test Case ID	TC-025
User Story	As a system administrator, I want to monitor the network commission calculations so that I can ensure financial accuracy and generate reports.
Stakeholder	System Administrator (Network Management)
Priority	High
Description	Validates that the 5% network commission is accurately calculated, recorded, and reportable across all transactions for network sustainability and financial compliance.
Preconditions	<p>Admin user is logged in with appropriate permissions</p> <p>Multiple orders have been completed with various total values</p> <p>Financial reporting module is accessible</p> <p>Date range includes at least 2 weeks of orders</p>
Test Steps	<ol style="list-style-type: none"> Log in as administrator Navigate to 'Financial Reports' or 'Network Commission' section Select date range: Previous 2 weeks Generate commission report View report showing: total order value for period, 5% commission amount, breakdown by order, producer payment amounts (95% per order), number of orders processed Select specific order from report View detailed breakdown: order total, commission calculation (5% of order total), producer payment per supplier in multi-vendor order, payment status Test calculation verification: If order total is £100, verify commission is £5.00 and producer payment is £95.00 For multi-vendor order totalling £150 with 2 producers (£80 and £70 worth of items): verify total commission is £7.50 (5% of £150), producer 1 payment is £76.00 (95% of £80), producer 2 payment is £66.50 (95% of £70) Download report in CSV format for accounting software Generate monthly summary report View year-to-date commission totals
Expected Results	<p>Admin can access comprehensive financial reports</p> <p>5% commission is correctly calculated on all orders</p>

	<p>Commission calculations are accurate to 2 decimal places</p> <p>Multi-vendor order commissions are calculated on total order value</p> <p>Producer payments (95%) are correctly calculated per supplier</p> <p>Reports can be filtered by date range, producer, or order status</p> <p>Reports are exportable in multiple formats (PDF, CSV, Excel)</p> <p>All financial data is auditable and traceable to individual orders</p> <p>Running totals and period summaries are accurate</p> <p>Commission amounts match actual payment distributions</p>
Acceptance Criteria	<p>Financial calculations comply with accounting standards</p> <p>Commission split (5% network, 95% producer) is consistently applied</p> <p>Multi-vendor order payment distribution is correct</p> <p>Reports are suitable for tax compliance and business accounting</p> <p>Audit trail links all commission calculations to source orders</p> <p>System prevents unauthorised access to financial data</p> <p>Commission reporting supports network sustainability planning</p> <p>Rounding is handled consistently across all calculations</p>