

Functional & Performance Testing
Model Performance Test

| | |
|---------------|--|
| Date | 19 February 2026 |
| Team ID | LTVIP2026TMIDS78575 |
| Project Name | shopsmart: your digital grocery store experience |
| Maximum Marks | |

Test Scenarios & Results

| Test Case ID | Scenario (What to test) | Test Steps (How to test) | Expected Result | Actual Result | Pass/Fail |
|--------------|-------------------------|---|---|------------------------------|-----------|
| FT-01 | User Registration | Enter valid & invalid user details | Valid registration succeeds; errors for invalid input | Registration works correctly | Pass |
| FT-02 | User Login | Enter correct & incorrect credentials | Login success for valid; error for invalid | Authentication works | Pass |
| FT-03 | Admin Login | Login with predefined admin credentials | Admin dashboard opens | Admin access granted | Pass |
| FT-04 | Product Listing | Load product page | Products display from DB | Products shown correctly | Pass |
| FT-05 | Add Product (Admin) | Add new product from admin panel | Product stored in DB & visible | Product added | Pass |
| FT-06 | Edit/Delete Product | Modify or remove product | DB updates & UI reflects | Update successful | Pass |
| FT-07 | Add to Cart | Click add-to-cart button | Item added to user cart | Cart updated | Pass |
| FT-08 | Update Cart | Change quantity/remove item | Cart recalculates total | Cart updates | Pass |

| | | | | | |
|-------|---------------------|-----------------------------|-----------------------------|------------------|------|
| FT-09 | Checkout Process | Place order with cart items | Order stored & cart cleared | Order placed | Pass |
| FT-10 | Order History | View past orders | User orders displayed | Orders shown | Pass |
| FT-11 | Payment Integration | Simulate payment selection | Payment status stored | Payment recorded | Pass |

Performance Testing

| Test Case ID | Scenario | Test Steps | Expected Result | Actual Result | Pass/Fail |
|--------------|-----------------------|-------------------------|------------------------|---------------|-----------|
| PT-01 | Page Load Time | Load homepage/products | < 2 seconds | ~1.5 sec | Pass |
| PT-02 | API Response | Fetch products API | Fast response | Stable | Pass |
| PT-03 | Concurrent Users | Multiple users add cart | No crash | Stable | Pass |
| PT-04 | DB Query Speed | Search products | Quick retrieval | Fast | Pass |
| PT-05 | Order Processing Load | Multiple orders placed | Orders saved correctly | Stable | Pass |