



# Rora Store – Test Summary Report

Automated Testing Results – PHPUnit Backend Tests

31

TESTS

84

ASSERTIONS

8.98s

DURATION



## Overview

**Test Status:** All tests passed successfully! The backend API has been thoroughly tested with **31 test cases** covering **84 assertions** across 7 modules.



31

PASSED



84

ASSERTIONS



4



## Test Suites

### ✓ Analysis Module – Customer Analysis

3.15s

- ✓ admin can view customer analysis
- ✓ client cannot access customer analysis

### ✓ Analysis Module – Inventory Analysis

0.38s

- ✓ admin can view inventory analysis
- ✓ client cannot access inventory analysis

### ✓ Analysis Module – Sales Analysis

0.35s

- ✓ admin can view sales analysis
- ✓ client cannot access sales analysis

### ✓ Auth Module – Admin User Controller

0.82s

- ✓ admin can list users
- ✓ admin can create user
- ✓ admin can view specific user
- ✓ admin can update user
- ✓ admin can delete user

### ✓ Auth Module – Authentication Controller

0.63s

✓ user can register with default client role

✓ user cannot login with invalid credentials

✓ user can login and receive token

✓ user can logout successfully

### ✓ Auth Module – Role Middleware

0.34s

✓ it denies access if user does not have required role

✓ it allows access if user has required role

### ✓ Orders Module – Orders Controller

0.64s

✓ client can place order

✓ client can view own orders

✓ admin can view all orders

✓ admin can update order status

### ✓ Products Module – Categories Controller

0.75s

✓ admin can create category

✓ admin can update category

✓ admin can delete category

✓ client cannot create category

✓ guest can view active categories only

### ✓ Products Module – Products Controller

0.86s

✓ admin can create product

✓ admin can update product

✓ admin can delete product

✓ client cannot create product

✓ guest can search active products



## Test Coverage Areas

### Authentication & Authorization

- User registration with automatic client role assignment
- Login validation and token generation
- Logout functionality and token invalidation
- Role-based middleware access control (admin vs client)

### User Management (Admin)

- Create, read, update, and delete user accounts
- List users with pagination
- Role assignment and validation

### Product & Category Management

- CRUD operations for products and categories (admin-only)
- Active product/category filtering for guests
- Search functionality for products
- Authorization checks preventing client access

### Order Management

- Client order placement (COD)
- Client viewing their own orders
- Admin viewing all orders
- Admin updating order status

### Analytics & Reporting

- Customer analysis (admin-only)
  - Inventory analysis (admin-only)
  - Sales analysis (admin-only)
  - Authorization checks preventing client access
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## Key Achievements

- **100% Pass Rate:** All 31 tests passed successfully without any failures
  - **Comprehensive Coverage:** 4 modules thoroughly tested with 84 assertions
  - **Role-Based Security:** Proper authorization testing ensuring admin/client separation
  - **Fast Execution:** Complete test suite runs in under 9 seconds
  - **API Reliability:** All CRUD operations validated across multiple modules
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## Testing Framework

**Framework:** PHPUnit (Laravel's default testing framework)

**Test Type:** Feature tests (integration tests simulating HTTP requests)

**Database:** In-memory SQLite with RefreshDatabase trait for isolated tests

**Authentication:** Laravel Sanctum for API token testing

✓ **All Tests Passed**

PHPUnit Test Suite • Laravel Backend API

✓ **31 Tests • 84 Assertions • 8.98s**