eBuildify Platform - Sprint 3 Report

Shopping Cart & Basic Ordering Sprint

Executive Summary

Sprint 3 achieved exceptional results with 8 out of 8 planned stories completed, including the critical bulk pricing system carried over from Sprint 2. The team delivered a comprehensive shopping experience with offline cart functionality, product comparison, and pickup assignment features. All core ordering functionality is now complete, positioning the project perfectly for payment integration in the next phase.

Sprint Overview

Attribute	Details
Sprint Number	Sprint 3
Duration	August 11-17, 2025 (7 days)
Sprint Goal	Complete shopping experience with offline cart and ordering functionality
Team Composition	7 members (Scrum Master, Product Owner, Frontend Dev, Backend Dev, DevOps, UI/UX Designer, QA Engineer)
Planned Capacity	25 story points
Client	Sol Little By Little Enterprises

Completed Work

☑ User Stories Delivered (8/8 - 100% Success Rate)

Story ID	Title	Priority	Status	Acceptance Criteria Met
BE-23	Bulk discount automation (≥100 units)	Highest	✅ DONE	1.5% discount automatically applied for cement/iron rods/quarter rods
BE-24	Offline shopping cart functionality	Highest	✅ DONE	Cart persists offline with local storage and sync capability
BE-25	One-click reorder from history	Highest	✅ DONE	Previous purchases replicated in ≤3 clicks
BE-59	First 20 customers incentive (enhancement)	Highest	✅ DONE	Enhanced tracking and promotional code management
BE-67	Brand assets integration (final)	Highest	✅ DONE	Complete brand consistency across all interfaces
BE-72	Product comparison feature	Medium	✅ DONE	Side-by-side comparison of 3+ products with specifications
BE-73	Third-party pickup assignment	Medium	✅ DONE	Pickup person details, ID verification, SMS notifications
BE-71	Search enhancement (completed from Sprint 2)	Medium	✅ DONE	Advanced search with brand and type filtering

Major Features Delivered:

- ✅ **Complete Shopping Cart**: Offline functionality with automatic sync when online
- ✅ **Bulk Pricing Engine**: Automated 1.5% discount for qualifying orders (≥100 units)
- ✅ **Order History System**: Full purchase tracking with one-click reorder capability
- ✅ **Product Comparison**: Side-by-side comparison with detailed specifications
- ✅ **Pickup Delegation**: Customers can assign others to collect orders with verification
- ✅ **Enhanced Search**: Multi-criteria filtering with real-time suggestions

In-Progress Work

🔄 No Stories Currently In Progress

Sprint 3 achieved 100% completion rate. All committed stories were delivered with full acceptance criteria met.

Blocked/Delayed Items

✅ No Blocked Items

Sprint 3 experienced zero blockers. The team's focus on completing Sprint 2 carry-over work first created smooth flow for remaining stories.

Stories Moved to Future Sprints:

- **Payment Integration Stories (BE-26 through BE-30)**: Strategically planned for dedicated payment sprint

- **Impact**: Positive - allows focused attention on complex payment gateway integration

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Sprint Metrics

Velocity Analysis

Metric	Planned	Actual	Variance
Story Points Committed	25 points	26 points completed	+4%
Stories Planned	8 stories	8 completed	100% completion rate
Team Velocity	25 points/sprint	26 points delivered	Exceeded target

Burndown Analysis

- **Ideal Trajectory**: 3.6 points/day decline over 7-day sprint

- **Actual Progress**: Ahead of schedule by Day 5

- **Daily Velocity**: Consistent 3.8 points/day average

- **Sprint Outcome**: Perfect execution with early completion

Velocity Trend Improvement

- **Sprint 1**: 16 points (infrastructure)

- **Sprint 2**: 18 points (catalog features)

- **Sprint 3**: 26 points (shopping features)

- **Trend**: +44% velocity improvement showing team maturation

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Quality Metrics

Technical Quality Indicators

Metric	Target	Achieved	Status
Code Coverage	80% minimum	92%	✅ Exceeded
Offline Functionality	100% cart persistence	100% success	✅ Met
Pricing Accuracy	100% bulk discount calculation	100% accurate	✅ Met
Cross-browser Testing	95% compatibility	98% compatibility	✅ Exceeded
Mobile Performance	<3sec load time	2.1sec average	✅ Exceeded

User Experience Achievements:

- ✅ **Offline Cart**: Functions perfectly in areas with poor connectivity
- ✅ **Pricing Transparency**: Bulk discounts clearly displayed and applied
- ✅ **Comparison Tool**: Intuitive interface for product evaluation
- ✅ **Pickup System**: Seamless third-party pickup with security verification
- ✅ **Order History**: Fast access to previous purchases with detailed tracking

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Team Performance Insights

What Went Well ✅

1. **Perfect Sprint Execution**: 100% story completion rate demonstrates team maturity
2. **Technical Excellence**: 92% code coverage and robust offline functionality
3. **Cross-Team Synergy**: Frontend, Backend, and QA teams worked seamlessly
4. **Quality Focus**: Zero critical bugs in production-ready features
5. **Innovation Delivery**: Offline cart functionality exceeds industry standards
6. **Client Alignment**: All features align perfectly with business requirements

Areas for Improvement 🔄

1. **Sprint Planning**: Can increase capacity for Sprint 4 given strong velocity
2. **Documentation**: API documentation needs parallel development
3. **Performance Monitoring**: Implement real-time performance tracking
4. **Automated Testing**: Increase E2E test coverage for complex user flows

Team Maturation Indicators

- **Estimation Accuracy**: 96% accuracy in story point estimation
- **Self-Organization**: Team autonomously resolved minor technical challenges

- **Knowledge Sharing**: Cross-training evident in quality delivery across all areas

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Risks and Dependencies

Current Risks ⚠️

Risk	Impact	Probability	Mitigation Strategy
Payment Gateway Complexity	High	Medium	Dedicated payment sprint with early API testing
Service Integration Load	Medium	Low	Stagger service features across multiple sprints
Database Performance	Low	Low	Performance monitoring and optimization ready

External Dependencies 🔗

- **Payment APIs**: Flutterwave, MTN MoMo, Vodafone Cash integration testing required
- **Ghana Card API**: Enhanced verification features pending government partnership
- **Client Validation**: Payment flow and credit system approval needed

Timeline Impact Assessment

- ✅ **Ahead of Schedule**: Sprint 3 over-delivery creates buffer for complex payment work
- ✅ **Quality Foundation**: Solid shopping cart foundation supports payment integration

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Next Sprint Planning

Payment Integration Sprint Priorities (Next Phase)

1. **Multi-Payment Gateway Integration**: MTN MoMo, Vodafone Cash, Telecel Cash
2. **Credit System Implementation**: B2B credit requests and approval workflow
3. **Automatic Payment Setup**: Account linking and scheduled deductions
4. **Penalty System**: Late payment and default fee automation

Capacity Planning

- **Recommended Capacity**: 28-30 story points (based on Sprint 3 performance)
- **Team Availability**: All 7 members ready for payment integration complexity
- **Technical Spike**: 2-day payment gateway research and testing phase recommended

Key Deliverables for Payment Sprint

- ✅ Complete payment gateway integration (MTN, Vodafone, Telecel)

- ✅ Credit application and approval system
- ✅ Automatic payment deduction setup
- ✅ Penalty calculation and fee application system

Stakeholder Communication

Demo Scope Delivered

At Sprint 3 review, stakeholders experienced:

1. ✅ **Complete Shopping Experience**: Browse → Compare → Add to Cart → Checkout flow
2. ✅ **Offline Cart Demo**: Functionality during simulated network interruption
3. ✅ **Bulk Pricing**: Live demonstration of 1.5% discount calculation
4. ✅ **Order History**: Quick reorder process completed in under 2 minutes
5. ✅ **Pickup Assignment**: Full workflow with SMS notification system
6. ✅ **Product Comparison**: Side-by-side evaluation of cement brands

Client Feedback Integration

- **Excellent**: Outstanding satisfaction with shopping cart user experience
- **Impressed**: Offline functionality exceeds expectations for Ghana market
- **Request**: Prioritize MTN MoMo integration for payment sprint
- **Approval**: Bulk pricing logic approved without modifications
- **Action**: Confirmed payment integration as next sprint priority

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Recommendations

For Payment Integration Sprint

1. **Technical Spike First**: Dedicate first 2 days to payment gateway API testing
2. **Parallel Development**: Split payment methods across team members for faster delivery
3. **Security Focus**: Implement PCI-DSS compliance from day one of payment development
4. **Client Validation**: Schedule mid-sprint demo for credit system workflow approval

For Product Owner

- Secure payment gateway API access before next sprint begins
- Define credit approval workflow and business rules

- Prepare test accounts for payment gateway integration testing
- Schedule finance team validation for penalty and fee calculations

For Development Team

- Continue exceptional code quality standards (maintain 90%+ coverage)
- Implement comprehensive payment security measures
- Create automated testing for payment flows
- Prepare rollback strategies for payment integration

Updated Project Status

Overall Project Health

- **MVP Progress**: 65% complete (ahead of schedule)
- **Technical Debt**: Minimal (high code quality maintained)
- **Team Velocity**: Accelerating (26 points/sprint achieved)
- **Client Satisfaction**: High (all demos received positive feedback)

Epic Completion Status

Epic	Completion %	Status
Epic 0: Infrastructure	100%	✅ Complete
Epic 1: Order Management	95%	🎯 Nearly Complete
Epic 6: Customer Verification	100%	✅ Complete
Epic 2: Payment & Checkout	15%	📋 Next Priority
Epic 3: Inventory Management	25%	📋 Future Sprint

Launch Readiness Assessment

- **Core Shopping**: ✅ Ready for production
- **User Management**: ✅ Ready for production
- **Payment System**: 🔄 Next sprint completion
- **Expected MVP**: On track for October 1, 2025 launch

Report Prepared By: Enoch Amarteifio (Scrum Master)

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Next Phase: Payment Integration & Credit System Sprint