eBuildify Platform - Sprint 1 Report

Foundation & Setup Sprint

Executive Summary

Sprint 1 successfully established the technical foundation for the eBuildify platform with 8 out of 10 planned stories completed. The team achieved critical infrastructure setup including authentication system, database schema, and CI/CD pipeline. Ghana Card verification system was implemented ahead of schedule, positioning the project well for Sprint 2 development.

Sprint Overview

Attribute	Details	
Sprint Number	Sprint 1	
Duration	August 2-6, 2025 (5 days)	
Sprint Goal	Project foundation, environment setup, and basic architecture	
Team	7 members (Scrum Master, Product Owner, Frontend Dev, Backend Dev, DevOps, UI/UX	
Composition	Designer, QA Engineer)	
Planned Capacity	15 story points	
Client	Sol Little By Little Enterprises	
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Completed Work

User Stories Delivered (8/10)

Story ID	Title	Priority	Status	Acceptance Criteria Met
BE-61	Setup project architecture & structure	Highest	DONE	Development, staging, and testing environments accessible
BE-62	Create initial database schema	Highest	DONE	Database schema defined with proper normalization
BE-63	Implement CI/CD pipeline	Highest	DONE	Automated testing pipeline running successfully
BE-64	Set up and configure API Gateway	Highest	DONE	API Gateway operational with proper routing
BE-70	Set up test environment and initial test suite	Highest	DONE	Test framework established with ≥80% coverage target
BE-58	Ghana Card verification system	Highest	DONE	Secure Ghana Card data storage and validation implemented
BE-56	Cement batch number compliance	Highest	DONE	Batch numbers appear on invoices for safety compliance
BE-86	Birthday/holiday greeting system	Medium	DONE	Automated notification system for customer engagement

Key Deliverables Achieved:

- **Live Demo Environment**: Functioning staging environment accessible via web browser
- **Authentication Foundation**: User registration and role-based access system
- **Development Infrastructure**: Complete CI/CD pipeline with automated testing
- Compliance Ready: Ghana Card verification and cement batch tracking systems

In-Progress Work

Stories Continuing to Sprint 2 (2/10)

Story ID	Title	Current Status	Completion %	Expected Completion
BE-59	First 20 customers incentive packages	IN PROGRESS	70%	Sprint 2 Week 1
BE-67 Brand assets and UI component library		IN PROGRESS	85%	Sprint 2 Week 1
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Current Risks:

• **BE-59**: Customer incentive logic requires final business rule validation

• **BE-67**: Brand asset integration pending final logo approval from client

Blocked/Delayed Items

X No Critical Blockers

Sprint 1 experienced minimal blockers due to focus on foundational infrastructure work that had limited external dependencies.

Scope Adjustments:

- 11 stories moved to Sprint 2: Payment integration stories (BE-23 through BE-30) were strategically moved to focus Sprint 1 on solid foundation
- Impact: Positive allows more thorough infrastructure setup before complex payment integrations

Sprint Metrics

Velocity Analysis

Metric	Planned	Actual	Variance
Story Points Committed	15 points	16 points completed	+6.7%
Stories Planned	10 stories	8 completed, 2 in progress	80% completion rate
Team Velocity	15 points/sprint	16 points delivered	Above target
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Burndown Analysis

- Ideal Trajectory: 3 points/day decline over 5-day sprint
- **Actual Progress**: Steady progress with 70% completion by Day 3
- Sprint Outcome: Exceeded planned velocity despite 5-day compressed timeline

Quality Metrics

Technical Quality Indicators

Metric	Target	Achieved	Status
Code Coverage 80% minimum		85%	Exceeded
CI/CD Success Rate	95%	98%	Exceeded
Security Scans 0 critical issues		0 critical, 2 minor	✓ Met
Performance Tests	All passing	100% pass rate	✓ Met
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Non-Functional Requirements Addressed:

- **Security**: PCI-DSS compliant foundation established
- **Performance**: 3-second load time target framework implemented
- Scalability: Microservices architecture supports 500+ concurrent users
- Compliance: Ghana Card data protection and cement traceability systems active

Team Performance Insights

What Went Well



- 1. **Strong Technical Foundation**: Team delivered robust infrastructure ahead of schedule
- 2. **Effective Collaboration**: 7-person team coordination worked smoothly with clear role definitions
- 3. **Proactive Security**: Ghana Card verification implemented with encryption standards
- 4. Quality Focus: Exceeded code coverage and automated testing targets

Areas for Improvement 🔄

- 1. **Story Estimation**: Some infrastructure tasks took longer than estimated refine estimation for Sprint 2
- 2. Client Communication: Need more frequent validation on business rules (e.g., incentive packages)
- 3. Documentation: API documentation needs to be created parallel to development
- 4. Brand Assets: Secure final brand approvals earlier in the sprint

Team Velocity Trend

- **Sprint 1 Velocity**: 16 points (strong start for foundational work)
- Predicted Sprint 2: 20-25 points (as team moves to feature development)

Risks and Dependencies

Current Risks 🔔

Risk	Impact	Probability	Mitigation Strategy
Ghana Card API Integration	Medium	Low	Implement basic verification with enhancement option
Payment Gateway Complexity	High	Medium	Prioritize Flutterwave as primary, others secondary
Brand Asset Delays	Low	Low	Work with placeholder assets, swap when ready
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External Dependencies \oslash

- Ghana Card API: Government partnership may be required for full integration
- Payment Gateways: Flutterwave, MTN, Vodafone API access needs confirmation
- Client Assets: Final logo and brand guidelines pending approval

Timeline Impact Assessment

- On Track: Sprint 1 completion positions project well for December 15, 2025 launch
- **Buffer Created**: Ahead of schedule on infrastructure allows more time for complex features

Next Sprint Planning

Sprint 2 Priorities (August 7-10, 2025)

- 1. Complete Product Catalog: Materials and services catalog with search/filter
- 2. **Customer Management**: Profile management and Ghana Card verification refinement
- 3. **Shopping Experience**: Basic cart functionality and product comparison
- 4. **UI/UX Polish**: Brand integration and mobile-first responsive design

Capacity Planning

- Available Capacity: 20-25 story points (full 4-day sprint)
- Team Availability: All 7 members confirmed available
- Carry-over Work: 2 stories from Sprint 1 (30% of Sprint 2 capacity)

Key Deliverables for Sprint 2

- Complete product catalog (materials + services)
- Z Customer profile management with Ghana Card verification
- V First 20 customer incentive system
- Z Basic search and filtering functionality

Stakeholder Communication

Demo Scope Delivered

At Sprint 1 review, stakeholders observed:

1. **Live Environment**: Functioning staging environment with user authentication

- 2. **Security Foundation**: Ghana Card verification workflow demonstration
- 3. **Development Readiness**: CI/CD pipeline and automated testing showcase
- 4. Compliance Systems: Cement batch tracking and data protection measures

Client Feedback Incorporation

- Positive: Strong appreciation for security-first approach and Ghana Card integration
- Requested: Faster progress on customer-facing features in Sprint 2
- Action: Prioritize product catalog and user experience in next sprint

Recommendations

For Sprint 2

- Accelerate Feature Development: With infrastructure complete, focus 80% effort on user-facing features
- 2. Enhanced Client Validation: Schedule mid-sprint demo for business rule confirmation
- 3. Parallel Documentation: Create user guides alongside feature development
- 4. **Performance Monitoring**: Implement staging environment performance tracking

For Product Owner

- Secure final brand assets and business rule confirmations before Sprint 2 day 2
- Prepare detailed acceptance criteria for product catalog user stories
- Schedule stakeholder availability for mid-sprint validation sessions

For Development Team

- Continue excellent code quality standards established in Sprint 1
- Focus on mobile-first development as 80% of users access via mobile
- Maintain automated testing coverage above 80% threshold

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Date: August 7, 2025

Next Sprint Review: August 10, 2025