**eBuildify - Revised Project Timeline & Resource Allocation**

**Client:** VillageTech   
**Team:** 7-Person Scrum Team (BuildTech Solutions)  
**Project Duration:** 16 Weeks (4 Months)  
**Revised Launch Date:** December 15, 2025  
**Sprint Duration:** 2 Weeks per Sprint (8 Sprints Total)

**Team Composition & Primary Responsibilities**

**Core Team Members:**

1. **Scrum Master** - Enoch Amarteifio
2. **Product Owner** - Charles
3. **Frontend Developer** – Enoch Amarteifio
4. **Backend Developer** - Abdul Rashid
5. **Full Stack Developer/DevOps** – Enoch Amarteifio
6. **UI/UX Designer** - Charles (Dual Role)
7. **QA Engineer** - Muzamil

**Sprint Breakdown & Resource Allocation**

**SPRINT 1 (Weeks 1-2): Foundation & Setup**

**Sprint Goal:** Project foundation, environment setup, and basic architecture

**Sprint 1 Deliverables:**

* [x] Development environment setup
* [x] Database schema design (initial)
* [x] Basic project architecture
* [x] Brand asset integration
* [x] Basic authentication system
* [x] Ghana Card verification system (Phase 1)

**Resource Allocation:**

| **Team Member** | **Tasks** | **Hours/Week** |
| --- | --- | --- |
| **Scrum Master (Enoch)** | Sprint ceremonies, team coordination, client communication | 10 |
| **Product Owner (Charles)** | Backlog refinement, wireframe creation, client feedback | 15 |
| **Frontend Developer** | Environment setup, component library, authentication UI | 35 |
| **Backend Developer (Abdul Rashid)** | Database design, API structure, authentication backend | 40 |
| **Full Stack/DevOps** | CI/CD pipeline, deployment setup, environment configuration | 35 |
| **UI/UX Designer (Charles)** | Brand integration, design system, user flow mapping | 20 |
| **QA Engineer (Muzamil)** | Test environment setup, test plan creation | 15 |

**SPRINT 2 (Weeks 3-4): Core Product Catalog & User Management**

**Sprint Goal:** Complete product catalog with Ghana Card verification

**Sprint 2 Deliverables:**

* [x] Complete product catalog (materials + services)
* [x] Ghana Card registration and verification
* [x] Customer profile management
* [x] Basic search and filtering
* [x] First 20 customers incentive system

**Resource Allocation:**

| **Team Member** | **Tasks** | **Hours/Week** |
| --- | --- | --- |
| **Scrum Master (Enoch)** | Sprint management, blocker resolution | 10 |
| **Product Owner (Charles)** | Product catalog content, acceptance criteria validation | 12 |
| **Frontend Developer** | Product catalog UI, search/filter components, profile pages | 40 |
| **Backend Developer (Abdul Rashid)** | Product APIs, Ghana Card integration, user management | 40 |
| **Full Stack/DevOps** | Database optimization, API documentation | 30 |
| **UI/UX Designer (Charles)** | Product page design, mobile responsiveness | 25 |
| **QA Engineer (Muzamil)** | Functional testing, user registration testing | 30 |

**SPRINT 3 (Weeks 5-6): Shopping Cart & Basic Ordering**

**Sprint Goal:** Complete shopping experience with offline cart

**Sprint 3 Deliverables:**

* [x] Shopping cart with offline support
* [x] Product comparison feature
* [x] Volume-based pricing (1.5% discount for 100+ units)
* [x] Order history and reordering
* [x] Pickup assignment feature

**Resource Allocation:**

| **Team Member** | **Tasks** | **Hours/Week** |
| --- | --- | --- |
| **Scrum Master (Enoch)** | Sprint coordination, velocity tracking | 10 |
| **Product Owner (Charles)** | Cart flow validation, pricing rules testing | 10 |
| **Frontend Developer** | Cart UI, comparison feature, order history interface | 40 |
| **Backend Developer (Abdul Rashid)** | Cart logic, pricing engine, order management APIs | 40 |
| **Full Stack/DevOps** | Performance optimization, offline cart implementation | 35 |
| **UI/UX Designer (Charles)** | Cart/checkout UX optimization | 20 |
| **QA Engineer (Muzamil)** | Cart functionality testing, offline testing | 35 |

**SPRINT 4 (Weeks 7-8): Payment Integration & Credit System**

**Sprint Goal:** Complete payment processing with credit management

**Sprint 4 Deliverables:**

* [x] Multi-payment gateway integration (MTN, Vodafone, Telecel, Banks)
* [x] Credit payment system with account linking
* [x] Automatic payment deduction setup
* [x] Payment reminder system
* [x] Penalty and additional fee calculation

**Resource Allocation:**

| **Team Member** | **Tasks** | **Hours/Week** |
| --- | --- | --- |
| **Scrum Master (Enoch)** | Risk management, payment security coordination | 12 |
| **Product Owner (Charles)** | Payment flow validation, credit terms definition | 15 |
| **Frontend Developer** | Payment UI, credit application forms, payment status | 40 |
| **Backend Developer (Abdul Rashid)** | Payment gateway APIs, credit system logic, automated billing | 45 |
| **Full Stack/DevOps** | Payment security, PCI-DSS compliance, monitoring | 40 |
| **UI/UX Designer (Charles)** | Payment flow UX, error handling design | 18 |
| **QA Engineer (Muzamil)** | Payment testing, security testing, credit flow validation | 40 |

**SPRINT 5 (Weeks 9-10): Service Booking & Consultancy System**

**Sprint Goal:** Professional services booking platform

**Sprint 5 Deliverables:**

* [x] Consultancy service booking interface
* [x] Consultant availability management
* [x] Service calendar and scheduling
* [x] Quote generation for services
* [x] Architectural drawings and quantity surveying booking

**Resource Allocation:**

| **Team Member** | **Tasks** | **Hours/Week** |
| --- | --- | --- |
| **Scrum Master (Enoch)** | Cross-team coordination, service integration planning | 10 |
| **Product Owner (Charles)** | Service requirements validation, consultant onboarding | 20 |
| **Frontend Developer** | Service booking UI, calendar interface, consultant profiles | 40 |
| **Backend Developer (Abdul Rashid)** | Service booking APIs, calendar management, consultant system | 40 |
| **Full Stack/DevOps** | Service integration, booking system optimization | 30 |
| **UI/UX Designer (Charles)** | Service booking UX, consultant interaction design | 25 |
| **QA Engineer (Muzamil)** | Service booking testing, calendar functionality testing | 35 |

**SPRINT 6 (Weeks 11-12): Delivery Management & Logistics**

**Sprint Goal:** Advanced delivery system with distance-based pricing

**Sprint 6 Deliverables:**

* [x] Distance-based delivery pricing calculator
* [x] Delivery assignment and tracking
* [x] Driver mobile interface (basic)
* [x] Damage reporting system (1-2 hour window)
* [x] Delivery tip/bonus feature
* [x] Route optimization (basic)

**Resource Allocation:**

| **Team Member** | **Tasks** | **Hours/Week** |
| --- | --- | --- |
| **Scrum Master (Enoch)** | Logistics coordination, delivery process optimization | 12 |
| **Product Owner (Charles)** | Delivery flow validation, driver requirements | 15 |
| **Frontend Developer** | Delivery interface, pricing display, tracking UI | 35 |
| **Backend Developer (Abdul Rashid)** | Distance calculation APIs, delivery management, route optimization | 45 |
| **Full Stack/DevOps** | Maps integration, mobile optimization, delivery notifications | 40 |
| **UI/UX Designer (Charles)** | Delivery tracking UX, mobile driver interface | 20 |
| **QA Engineer (Muzamil)** | Delivery system testing, mobile interface testing | 35 |

**SPRINT 7 (Weeks 13-14): Admin Dashboards & Analytics**

**Sprint Goal:** Complete admin control and business intelligence

**Sprint 7 Deliverables:**

* [x] Comprehensive admin dashboard
* [x] Credit management dashboard
* [x] Sales analytics and reporting
* [x] Customer management interface
* [x] Service consultant management
* [x] Inventory management integration

**Resource Allocation:**

| **Team Member** | **Tasks** | **Hours/Week** |
| --- | --- | --- |
| **Scrum Master (Enoch)** | Dashboard requirements coordination | 8 |
| **Product Owner (Charles)** | Dashboard validation, reporting requirements | 20 |
| **Frontend Developer** | Admin dashboard UI, analytics charts, management interfaces | 40 |
| **Backend Developer (Abdul Rashid)** | Analytics APIs, reporting engine, admin functionality | 40 |
| **Full Stack/DevOps** | Dashboard performance, data visualization optimization | 35 |
| **UI/UX Designer (Charles)** | Dashboard UX, data visualization design | 25 |
| **QA Engineer (Muzamil)** | Admin functionality testing, analytics validation | 40 |

**SPRINT 8 (Weeks 15-16): Integration, Testing & Launch Preparation**

**Sprint Goal:** System integration, comprehensive testing, and launch readiness

**Sprint 8 Deliverables:**

* [x] Complete system integration testing
* [x] Performance optimization
* [x] Security audit and compliance verification
* [x] User acceptance testing
* [x] Production deployment
* [x] Launch day support preparation

**Resource Allocation:**

| **Team Member** | **Tasks** | **Hours/Week** |
| --- | --- | --- |
| **Scrum Master (Enoch)** | Launch coordination, final sprint management | 15 |
| **Product Owner (Charles)** | Final acceptance testing, launch criteria validation | 25 |
| **Frontend Developer** | Final UI polish, performance optimization, bug fixes | 40 |
| **Backend Developer (Abdul Rashid)** | System integration, performance tuning, final APIs | 45 |
| **Full Stack/DevOps** | Production deployment, monitoring setup, launch support | 45 |
| **UI/UX Designer (Charles)** | Final UX improvements, launch materials | 15 |
| **QA Engineer (Muzamil)** | Comprehensive testing, regression testing, launch validation | 50 |

**Resource Summary & Cost Estimation**

**Total Development Hours by Role:**

| **Role** | **Total Hours** | **Hourly Rate (₵)** | **Total Cost (₵)** |
| --- | --- | --- | --- |
| **Scrum Master** | 176 | 45 | 7,920 |
| **Product Owner** | 264 | 50 | 13,200 |
| **Frontend Developer** | 640 | 40 | 25,600 |
| **Backend Developer** | 680 | 45 | 30,600 |
| **Full Stack/DevOps** | 608 | 45 | 27,360 |
| **UI/UX Designer** | 336 | 35 | 11,760 |
| **QA Engineer** | 560 | 35 | 19,600 |
| **TOTAL** | **3,264** |  | **₵136,040** |

**Additional Costs:**

* **Third-party Integrations** (Payment gateways, Maps API): ₵8,000
* **Hosting & Infrastructure** (4 months): ₵6,000
* **External Tools & Licenses**: ₵4,000
* **Security Audit & Compliance**: ₵5,000
* **Contingency (10%)**: ₵15,904

**TOTAL PROJECT COST: ₵174,944**

**Key Milestones & Client Review Points**

**Milestone 1 (End of Sprint 2 - Week 4)**

* **Deliverable:** Working product catalog with Ghana Card verification
* **Client Review:** Product catalog validation and user registration flow

**Milestone 2 (End of Sprint 4 - Week 8)**

* **Deliverable:** Complete ordering system with payment integration
* **Client Review:** Full customer journey testing and payment validation

**Milestone 3 (End of Sprint 6 - Week 12)**

* **Deliverable:** Service booking and delivery management system
* **Client Review:** Business process validation and logistics testing

**Milestone 4 (End of Sprint 8 - Week 16)**

* **Deliverable:** Complete eBuildify platform ready for launch
* **Client Review:** Final acceptance and launch preparation

**Risk Management**

**High-Risk Items:**

1. **Ghana Card API Integration** - May require government partnership
2. **Multi-Payment Gateway Integration** - Complex API coordination
3. **Credit System Automation** - Banking API limitations
4. **Distance-Based Pricing** - Accurate location mapping requirements

**Mitigation Strategies:**

* **Ghana Card:** Implement basic verification with future enhancement option
* **Payment Gateways:** Prioritize Flutterwave as primary, others as secondary
* **Credit System:** Start with manual oversight, automate gradually
* **Distance Pricing:** Use Google Maps API with fallback manual pricing

**Post-Launch Support (Weeks 17-20)**

* **Week 17:** Launch monitoring and immediate bug fixes
* **Week 18-19:** User feedback collection and priority improvements
* **Week 20:** Performance optimization and feature enhancement planning

**Post-Launch Support Cost:** ₵25,000 (included in total budget consideration)