Merkato – Beta Readiness Test Checklist

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| # | Category | Check Item | Pass (✓/✗) | Remarks / Follow-up |
| 1.1 | Core System Validation | Critical modules (product cards, wallet, profile, role nav) are integrated and working |  |  |
| 1.2 | Core System Validation | Infinite scrolling performs smoothly and doesn't cause memory leaks |  |  |
| 1.3 | Core System Validation | Layouts display correctly for all user roles (customer, vendor, admin) |  |  |
| 1.4 | Core System Validation | Responsive design confirmed on mobile, tablet, desktop |  |  |
| 1.5 | Core System Validation | Product search, filters, and sort functionality are accurate |  |  |
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| 2.1 | Performance & Load Testing | Homepage, product page, and dashboard load within acceptable time |  |  |
| 2.2 | Performance & Load Testing | Simulated load test run with high concurrent users (e.g., 1000+) |  |  |
| 2.3 | Performance & Load Testing | API response times optimized and monitored under stress |  |  |
| 2.4 | Performance & Load Testing | Firebase backend (Firestore, auth) stable under load |  |  |
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| 3.1 | Security & Data Integrity | Login/logout/session handling and role switching tested |  |  |
| 3.2 | Security & Data Integrity | Role-based access control prevents unauthorized access |  |  |
| 3.3 | Security & Data Integrity | User data encrypted and stored securely |  |  |
| 3.4 | Security & Data Integrity | Wallet balance and transaction accuracy validated |  |  |
| 3.5 | Security & Data Integrity | Form validations and input sanitization in place |  |  |
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| 4.1 | Error Handling & Logging | 404, 500, and transaction failure pages handled gracefully |  |  |
| 4.2 | Error Handling & Logging | Frontend error tracking enabled (e.g., Crashlytics/Sentry) |  |  |
| 4.3 | Error Handling & Logging | Backend error logs and warnings monitored |  |  |
| 4.4 | Error Handling & Logging | Logs accessible for debugging and structured for triage |  |  |
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| 5.1 | Third-Party Integration Testing | Firebase services (auth, storage, analytics) tested |  |  |
| 5.2 | Third-Party Integration Testing | External APIs tested with fallback logic in case of downtime |  |  |
| 5.3 | Third-Party Integration Testing | Payment flows tested (including test and live environment) |  |  |
| 5.4 | Third-Party Integration Testing | Image uploads and CDN delivery validated (e.g., Cloudinary) |  |  |
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| 6.1 | Deployment & Versioning | Codebase tagged for beta (e.g., `v1.0-beta`) |  |  |
| 6.2 | Deployment & Versioning | Manual or CI/CD deployment pipeline validated |  |  |
| 6.3 | Deployment & Versioning | Rollback/recovery process in place and tested |  |  |
| 6.4 | Deployment & Versioning | Staging and production environments separated |  |  |
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| 7.1 | Documentation & Support | Architecture and system flow docs updated |  |  |
| 7.2 | Documentation & Support | API documentation available (for internal or external use) |  |  |
| 7.3 | Documentation & Support | Internal support guide for triaging beta issues available |  |  |
| 7.4 | Documentation & Support | Beta testers provided with onboarding guide, FAQ, and support contacts |  |  |
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| 8.1 | Role-Specific UI/UX Testing | Customer dashboard shows orders, cart, wallet, profile correctly |  |  |
| 8.2 | Role-Specific UI/UX Testing | Vendor dashboard shows product upload, analytics, order mgmt |  |  |
| 8.3 | Role-Specific UI/UX Testing | Admin dashboard shows user/product/review/flag/promo mgmt |  |  |
| 8.4 | Role-Specific UI/UX Testing | Public (Home) page shows registration, featured products |  |  |
| 8.5 | Role-Specific UI/UX Testing | Role switching updates layout, menu, and page access |  |  |
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| 9.1 | Navigation and Route Access Control | Protected routes redirect unauthenticated users |  |  |
| 9.2 | Navigation and Route Access Control | Nav bar updates by user role (login/logout, dashboard links) |  |  |
| 9.3 | Navigation and Route Access Control | Forbidden pages return proper access errors |  |  |
| 9.4 | Navigation and Route Access Control | Logout clears session and redirects correctly |  |  |
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| 10.1 | Smart Component Behaviors | Product cards dynamically update with filters |  |  |
| 10.2 | Smart Component Behaviors | Flash deals or featured listings highlight correctly |  |  |
| 10.3 | Smart Component Behaviors | Vendor analytics load and calculate properly |  |  |
| 10.4 | Smart Component Behaviors | Charts toggle views and support date range |  |  |
| 10.5 | Smart Component Behaviors | Export buttons generate valid CSV/PDFs |  |  |
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| 11.1 | Communication & Feedback | Support/contact form submissions are received |  |  |
| 11.2 | Communication & Feedback | Feedback/bug reports can be submitted |  |  |
| 11.3 | Communication & Feedback | Support team alerted for high-priority issues |  |  |
| 11.4 | Communication & Feedback | In-app messages are clear and helpful |  |  |
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| 12.1 | Promo Codes / Discounts | Promo logic applies correctly (one-time, % or flat) |  |  |
| 12.2 | Promo Codes / Discounts | Admin can create/edit/deactivate promo codes |  |  |
| 12.3 | Promo Codes / Discounts | Promo analytics display usage stats |  |  |
| 12.4 | Promo Codes / Discounts | Checkout reflects correct discount amount |  |  |
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| 13.1 | Data Seeding | Test vendors with products uploaded |  |  |
| 13.2 | Data Seeding | Test customers with cart activity |  |  |
| 13.3 | Data Seeding | Admin with permissions and seeded reports |  |  |
| 13.4 | Data Seeding | Dummy transactions for order & wallet tests |  |  |
| 13.5 | Data Seeding | Products include variety for filters (color, size, type) |  |  |
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| 14.1 | Compliance & Accessibility | Cookies and privacy notice included |  |  |
| 14.2 | Compliance & Accessibility | Basic accessibility (color contrast, alt text) |  |  |
| 14.3 | Compliance & Accessibility | Mobile navigation doesn't break on devices |  |  |
| 14.4 | Compliance & Accessibility | GDPR/data deletion support (if required) |  |  |

Here’s a tailored checklist of remaining feature development and polish for your marketplace, based on your codebase and best practices:

**🟢 Core Features (Should be Complete or Nearly Complete)**

* <input checked="" disabled="" type="checkbox"> User registration, login, password reset
* <input checked="" disabled="" type="checkbox"> Role-based access (customer, vendor, admin)
* <input checked="" disabled="" type="checkbox"> Product listing, search, and detail pages
* <input checked="" disabled="" type="checkbox"> Cart and checkout flow
* <input checked="" disabled="" type="checkbox"> Order creation and confirmation
* <input checked="" disabled="" type="checkbox"> Stripe payment integration
* <input checked="" disabled="" type="checkbox"> Order history for users
* <input checked="" disabled="" type="checkbox"> Invoice generation and download
* <input checked="" disabled="" type="checkbox"> Product reviews and moderation
* <input checked="" disabled="" type="checkbox"> Support ticket system

**🟡 Features to Review, Polish, or Complete**

**1. User Management**

* <input disabled="" type="checkbox"> Email verification on registration (if not yet implemented)
* <input disabled="" type="checkbox"> User profile editing (avatar, info, password)
* <input disabled="" type="checkbox"> Vendor onboarding flow (if vendors need approval or extra info)

**2. Product & Catalog**

* <input disabled="" type="checkbox"> Product upload: ensure robust image/video moderation and error handling
* <input disabled="" type="checkbox"> Category management (admin can add/edit categories)
* <input disabled="" type="checkbox"> Product stock management (vendors can update stock/availability)

**3. Checkout & Payments**

* <input disabled="" type="checkbox"> Add support for local payment methods (if needed for Ethiopia/Italy)
* <input disabled="" type="checkbox"> Address management (users can save/edit addresses)
* <input disabled="" type="checkbox"> Delivery options: ensure all options are available and tested

**4. Order Management**

* <input disabled="" type="checkbox"> Order status updates (pending, shipped, delivered, cancelled, etc.)
* <input disabled="" type="checkbox"> Vendor dashboard: view/manage their orders, products, analytics
* <input disabled="" type="checkbox"> Customer dashboard: view/manage their orders, returns, etc.

**5. Admin Panel**

* <input disabled="" type="checkbox"> User management (ban, promote, reset password)
* <input disabled="" type="checkbox"> Product and review moderation (approve, reject, flag)
* <input disabled="" type="checkbox"> Analytics and reporting (sales, users, products, etc.)
* <input disabled="" type="checkbox"> Support inbox for admin

**6. Communication & Feedback**

* <input disabled="" type="checkbox"> Messaging/chat between users (if planned)
* <input disabled="" type="checkbox"> Email/in-app notifications for key actions (orders, support, etc.)
* <input disabled="" type="checkbox"> Feedback forms for users/vendors

**7. Mobile & Accessibility**

* <input disabled="" type="checkbox"> Ensure full mobile responsiveness
* <input disabled="" type="checkbox"> Basic accessibility (labels, contrast, keyboard navigation)

**8. Security & Compliance**

* <input disabled="" type="checkbox"> Harden file upload security (file type, size, path checks)
* <input disabled="" type="checkbox"> Rate limiting and brute-force protection
* <input disabled="" type="checkbox"> GDPR/privacy compliance (if needed)

**9. Monitoring & Error Handling**

* <input disabled="" type="checkbox"> Add error logging (Sentry, LogRocket, etc.)
* <input disabled="" type="checkbox"> User-friendly error pages and messages

**10. Testing & QA**

* <input disabled="" type="checkbox"> Manual QA: run through all user flows as each role
* <input disabled="" type="checkbox"> Add/expand integration and end-to-end tests for new features
* <input disabled="" type="checkbox"> Prepare demo/test accounts and seed data

**🟠 Optional/Nice-to-Have for Beta**

* <input disabled="" type="checkbox"> In-app notifications
* <input disabled="" type="checkbox"> Advanced analytics (heatmaps, conversion rates)
* <input disabled="" type="checkbox"> Marketing tools for vendors (discounts, campaigns)
* <input disabled="" type="checkbox"> Multi-language support

**Next Steps:**

* Review this checklist with your team.
* Prioritize “must-have” for beta vs. “nice-to-have.”
* Assign owners and deadlines for each remaining feature.
* Plan a code freeze and QA period before beta launch.

Let me know if you want this as a markdown file, or want to break down any item in more detail