

Product Requirements Document (PRD)

Product Name: OneCart **Version:** v1 **Feature Focus:** Manual URL Input for Unified Cart Aggregation with Cart Rules (Web Only) **Platform:** Web **Prepared For:** Bolt.new **Prepared By:** [Your Name] **Date:** [Date]

1. Overview

OneCart is a shopping aggregation platform that allows users to compile products from multiple e-commerce sites into a single unified cart. In this version (v1), users can manually copy and paste product URLs into the OneCart web application. The app will fetch metadata, store the product, and allow the user to manage and review their aggregated cart. Users can also define rule-based conditions for purchasing actions.

This version includes logic for rules-based automations, giving users the ability to either checkout manually or configure rules to automate purchasing behavior. A browser extension and mobile support are out of scope.

2. Explicit Feature Requirements

2.1 Manual URL Input

- Provide an input field where users can paste any product URL from a supported e-commerce site.
- Display appropriate UI states: idle, loading, success, and error.
- Input should support standard clipboard paste operations.

2.2 Product Metadata Extraction (Server-side)

- Extract the following fields: product title, product image, price, original URL.
- Optional (if available): color, size, availability status.
- Metadata should be normalized and stored in the user's cart object.
- Handle unsupported or invalid URLs with fallback messaging.

2.3 Cart Interface (Web UI)

- Display a list of all added products.
- Group items by store domain.
- Allow editing of quantity, optional notes.
- Allow removing individual products from the cart.
- Display estimated total cost (non-transactional).
- Two primary CTAs below the cart:
 - **Buy Now:** Opens checkout instructions or links to original product URLs.
 - **Set Up Rules:** Opens rule builder modal.

2.4 Session Persistence & User Auth

- Anonymous cart session saved locally in browser (LocalStorage).
- Allow users to sign up and log in (Email/password or OAuth).

- Persist cart data to server-side DB on login.

2.5 Product Error Handling

- Detect and handle broken or expired product links.
 - Provide fallback UI with manual entry option.
 - Inform users when products couldn't be parsed or loaded.
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3. Rule System for Cart Automation

3.1 Rule Setup Interface

- Modal-based rule builder with the following logic blocks:
- Trigger: "When..." (e.g., price drops, item goes on sale, faster shipping available)
- Condition: "If..." (e.g., price < ₹X, delivery < 2 days)
- Action: "Then..." (e.g., send notification, place order, mark item)
- Ability to save, edit, delete, or pause rules.

3.2 Supported Rule Types

Price-Based Rules - Buy when total cart value drops below ₹X - Buy when any individual item drops below a specified price - Notify me when price of a specific item drops by X%

Availability & Shipping-Based Rules - Buy when all items are in stock - Buy when any item is available for delivery in under X days

Time-Based Rules - Buy on a specific date (e.g., during a festival sale) - Buy if price drops before [user-specified date]

Purchase Intent Rules - If item is low in stock → notify - If item is trending (optional, based on scraped metadata like "X users viewing") → notify

3.3 Execution

- Rules are non-transactional in v1 (i.e., no actual purchasing is done automatically)
 - Rules trigger **notifications** and highlight items in cart when conditions are met
 - In future versions, rules will support agent-based auto-purchase
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4. Non-functional Requirements

- **Performance:** Product metadata must be fetched and rendered within 3 seconds in 80% of cases.
 - **Reliability:** URL parser should have >90% success rate for supported sites.
 - **Security:** All user-submitted URLs must be sanitized. Backend scraping services should be rate-limited and protected against injection.
 - **Accessibility:** All UI elements must follow WCAG AA compliance.
 - **Browser Support:** Chrome, Firefox, Safari, Edge (latest two versions).
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5. Supported Sites for v1

- Amazon India
- Flipkart
- Myntra
- Nykaa
- Ajio

(Fallback UI should be provided for unsupported stores.)

6. Out of Scope (for v1)

- Mobile app or responsive support
 - Payment processing or checkout automation
 - Browser extension
 - Collaborative carts
 - Price tracking dashboards
 - Store login automation
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Let me know if you want this converted into a Bolt schema or JSON definition.