

# Order Workflow Scenario (Home Plate)

User -> Vendor -> Delivery -> PIN Verification

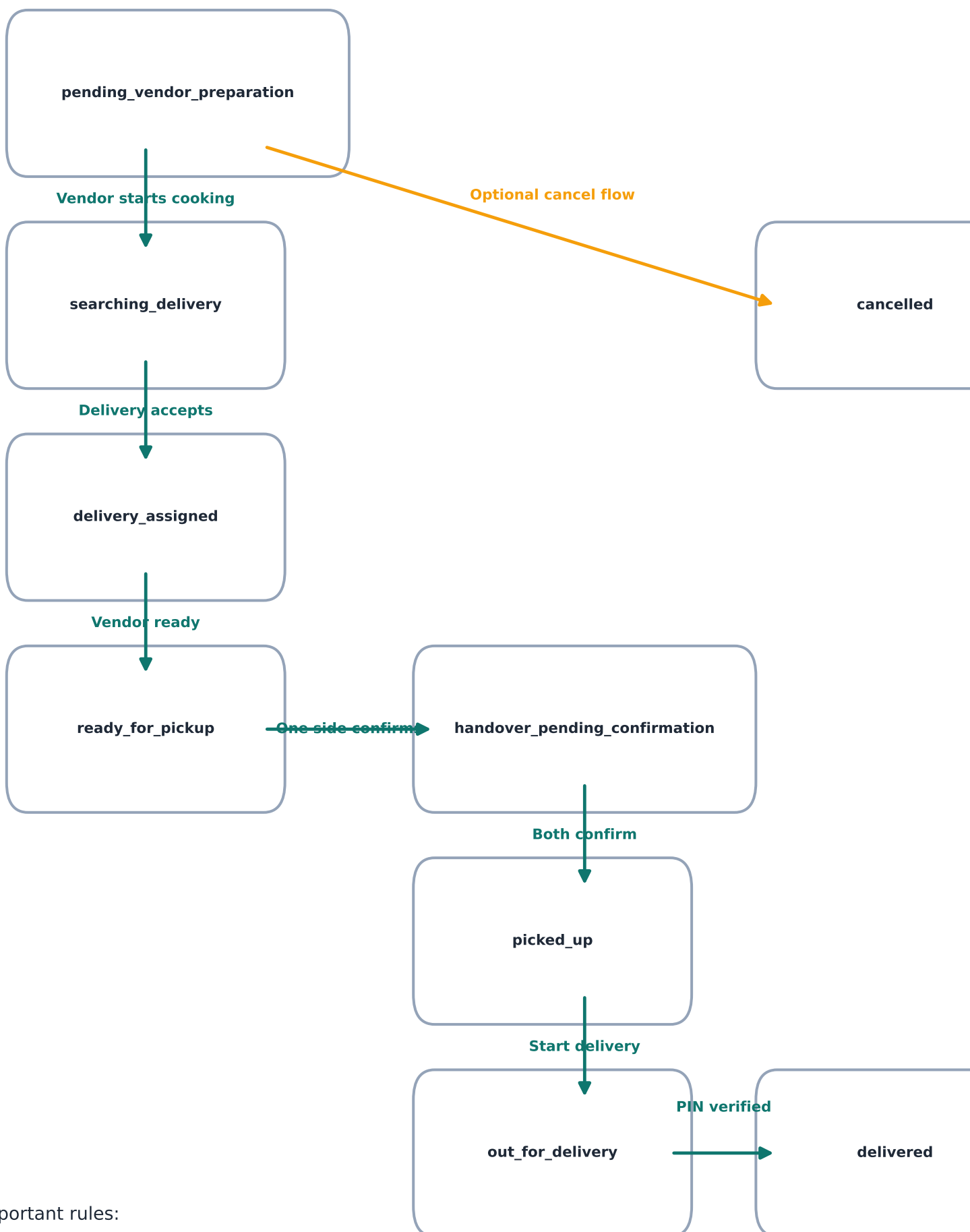
This document explains the complete order lifecycle implemented in the API and dashboard. It starts from cart checkout by the app user, then vendor preparation, delivery assignment, pickup confirmation, and final handoff using a delivery PIN.

- 1.** Cart-based order creation with multiple items (same vendor only).
- 2.** Online payment methods only: Vodafone Cash / InstaPay / Visa.
- 3.** Vendor has no accept/reject step; starts directly with Start Cooking.
- 4.** Delivery accepts from pool, then double pickup confirmation with vendor.
- 5.** Final customer handoff is completed only after PIN verification.

# 1) High-Level Flow (Sequence View)



## 2) Order Status Lifecycle (State Machine)



Important rules:

- Vendor has no accept/reject step for new order.
- Delivery assignment happens only after Start Cooking.

### 3) Order Data Structure (What is stored)

#### Order Header (orders table)

- ? order\_number
- ? app\_user\_id
- ? vendor\_id
- ? delivery\_id (nullable)
- ? order\_cost, delivery\_fee, total\_amount
- ? payment\_method: vodafone\_cash | instapay | visa
- ? payment\_status, payment\_reference
- ? delivery\_address, ordered\_at
- ? status (enum), delivery\_pin

#### Order Content (order\_items table)

- ? order\_id, item\_id, item\_name (snapshot)
- ? quantity, unit\_price, discount\_amount, line\_total

#### Tracking & Audit

- ? Timestamps: started\_cooking\_at, delivery\_accepted\_at, ready\_for\_pickup\_at, picked\_up\_at, delivered\_at
- ? order\_status\_logs: from\_status, to\_status, actor\_type, actor\_id, action, note, meta

## 4) Endpoint Execution Order (Practical Steps)

1. App User login -> POST /api/app-user/auth/login
2. Create order (cart checkout) -> POST /api/orders
3. Vendor login -> POST /api/vendor/auth/login
4. Vendor list own orders -> GET /api/orders/my
5. Vendor start cooking -> POST /api/vendor/orders/{id}/start-cooking
6. Delivery login -> POST /api/delivery/auth/login
7. Delivery list available -> GET /api/delivery/orders/available
8. Delivery accept -> POST /api/delivery/orders/{id}/accept
9. Vendor ready for pickup -> POST /api/vendor/orders/{id}/ready-for-pickup
10. Vendor confirm handover -> POST /api/vendor/orders/{id}/confirm-handover
11. Delivery confirm pickup -> POST /api/delivery/orders/{id}/confirm-pickup
12. Delivery out for delivery -> POST /api/delivery/orders/{id}/out-for-delivery
13. Delivery verify pin -> POST /api/delivery/orders/{id}/verify-pin

Create Order body example:

```
{
  "items": [{"item_id": 1, "quantity": 2}, {"item_id": 3, "quantity": 1}],
  "payment_method": "instapay",
  "delivery_address": "Nasr City, Cairo",
  "delivery_fee": 20
}
```