# Pharmacy Delivery CRM – Full Explanation

### Phase 1: Problem Understanding & Industry Analysis

- Goal: Understand what we're building and why.
- 1. Requirement Gathering
- Customers need to order medicines online with prescription upload.
- Pharmacist verifies prescriptions before fulfillment.
- Orders need delivery scheduling and tracking.
- Status updates required: Pending  $\rightarrow$  Verified  $\rightarrow$  Out for Delivery  $\rightarrow$  Delivered.
- 2. Stakeholder Analysis
- Customer: places orders, uploads prescriptions.
- Pharmacist: verifies prescriptions, prepares orders.
- Dispatcher: assigns rider, manages delivery.
- Delivery Rider: delivers medicines and updates status.
- Manager: monitors reports and overall operations.
- 3. Business Process Mapping

Customer places order  $\rightarrow$  Prescription uploaded  $\rightarrow$  Pharmacist verifies  $\rightarrow$  Delivery assigned  $\rightarrow$  Rider delivers  $\rightarrow$  Status updated  $\rightarrow$  Customer notified.

- 4. Industry-specific Use Case Analysis
- Compliance with prescription verification is critical.
- On-time delivery is crucial for customer satisfaction.
- Small pharmacies need simple, low-cost systems.
- 5. AppExchange Exploration
- Existing pharma/delivery apps are heavy; we build a simpler custom CRM solution on Salesforce.

## **Phase 2: Org Setup & Configuration**

- Goal: Prepare Salesforce environment.
- 1. Use Salesforce Developer Edition Org.
- 2. Configure Company Info, Business Hours (9 AM-9 PM), Holidays.
- 3. Users & Licenses: Pharmacist, Dispatcher, Rider, Manager.
- 4. Profiles & Roles: Manager > Pharmacist > Dispatcher > Rider.
- 5. Permission Sets: extra access for Reports if needed.
- 6. OWD: Order\_\_c private, Prescription\_\_c private, Delivery\_\_c private.
- 7. Sharing Rules: Manager sees all, Pharmacist sees assigned orders.
- 8. Setup Login Hours: restrict Rider login to 7 AM-10 PM.

## Phase 3: Data Modeling & Relationships

■ Goal: Build data structure.

Objects:

- Contact (Customer)
- Order\_c (Order\_Number, Status, Notes, Total Amount)
- Prescription\_\_c (File, Verification Notes, Verified By)
- Order\_Item\_\_c (Medicine, Quantity, Dosage)
- Delivery\_c (Rider Name, Rider Phone, Scheduled Time, Delivery Status)

#### Relationships:

- Contact  $\leftrightarrow$  Order\_c  $\rightarrow$  Lookup
- Order\_\_c  $\leftrightarrow$  Prescription\_\_c  $\rightarrow$  Lookup
- Order\_\_c  $\leftrightarrow$  Delivery\_\_c  $\rightarrow$  Lookup
- Order\_\_c  $\leftrightarrow$  Order\_Item\_\_c  $\rightarrow$  Master-Detail

### **Phase 4: Process Automation (Admin)**

- Goal: Automate workflows.
- 1. Validation Rules: Delivery date ≥ Order date, Prescription file required.
- 2. Flows:
- Screen Flow for Order creation.
- Record-triggered Flow: set Verified/Rejected.
- Assignment Flow: assign rider, schedule delivery.
- 3. Approval Process: optional for high-value orders.
- 4. Notifications: email to customer on status changes.

## **Phase 5: Apex Programming (Developer)**

- Goal: Advanced logic.
- 1. Trigger: prevent order without prescription.
- 2. Trigger: block status change to Out for Delivery unless Verified.
- 3. Apex Class: OrderService for reusable logic (calculate totals).
- 4. Test Classes: create sample data, assert validation.

## **Phase 6: User Interface Development**

- Goal: User-friendly app.
- 1. Lightning App: "Pharmacy Delivery CRM"
- 2. Record Pages: Order with related Prescription, Items, Delivery.
- 3. Tabs: Orders, Prescriptions, Deliveries.
- 4. Flow Screens: guided order creation, verification.
- 5. Utility Bar: Quick action → New Order.
- 6. (Optional) LWC for multi-item entry or prescription preview.

## **Phase 7: Integration & External Access**

■ Goal: Connect external services.

- 1. Named Credentials: store API keys for SMS/email.
- 2. External Services: optional integration with delivery tracking.
- 3. REST Callouts: simulate SMS to customers (future scope).
- 4. Platform Events: notify rider app when delivery assigned.

### Phase 8: Data Management & Deployment

- Goal: Manage and migrate data.
- 1. Import Wizard: load sample customers, medicines.
- 2. Data Loader: bulk orders and prescriptions.
- 3. Duplicate Rules: prevent duplicate prescriptions.
- 4. Change Sets: deploy customizations to production.
- 5. Weekly Data Export: for backup.

### Phase 9: Reporting, Dashboards & Security Review

■ Goal: Monitor operations and secure data.

#### Reports:

- Orders by Status
- Deliveries by Rider
- Prescriptions Verified per Pharmacist

#### Dashboards:

- Order Lifecycle Dashboard (pie chart by status)
- Rider Performance Dashboard

#### Security:

- Orders private, visible only to assigned staff.
- Field-level security for sensitive prescription notes.
- Session timeout 30 min for Riders.

## Phase 10: Final Presentation & Demo Day

- Goal: Wrap up project.
- 1. Pitch Presentation: Problem  $\rightarrow$  Solution  $\rightarrow$  Benefits.
- 2. Demo: Create order, verify prescription, assign delivery, update status, show reports.
- 3. Handoff Documentation: system design doc, user guide.
- 4. Showcase on LinkedIn/Portfolio.