



# Phase 3 - Data Modeling & Relationships

This document provides a step-by-step summary of all data modeling tasks completed for Phase 3 of the Pharmacy Inventory System project, following the official project roadmap.

# Standard Objects Utilized

## Product Object

The standard **Product** object was designated to store all medication information.

## User Object

The standard **User** object was designated to store all staff information (e.g., Pharmacists).

## Contact Object

The standard **Contact** object was designated to store all patient information.

# Custom Objects Created

01

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Navigate to Setup

Navigated to **Setup > Object Manager > Create > Custom Object**.

02

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Create Prescription Object

Created the **Prescription** custom object to be the central object of the application. The Record Name was set to an Auto-Number (RX-{0000}).

03

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Launch Tab Wizard

The "Launch New Custom Tab Wizard" was used to create and display a new tab in the user interface.





Search Setup



Setup

Home

Object Manager

SETUP > OBJECT MANAGER

## Prescription

### Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Restriction Rules

Scoping Rules

Object Access

Triggers

### Details

Description

API Name

Prescription\_c

Custom



Singular Label

Prescription

Plural Label

Prescriptions

Edit

Delete

Enable Reports



Track Activities



Track Field History



Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

# Fields Created on Product Object

Navigated to **Setup > Object Manager > Product > Fields & Relationships**.

Quantity\_on\_Hand\_\_c

**Field Type:** Number

Tracks the current inventory quantity for each medication product.

Expiration\_Date\_\_c

**Field Type:** Date

Monitors medication expiration dates for inventory management and patient safety.

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## Product

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### Fields & Relationships

21 Items, Sorted by Field Label

[New](#)[Deleted Fields](#)[Field Dependencies](#)[Set History Tracking](#)

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
<a href="#">Active</a>	IsActive	Checkbox		
<a href="#">Category</a>	Category__c	Picklist		
<a href="#">Created By</a>	CreatedById	Lookup(User)		
<a href="#">Display URL</a>	DisplayUrl	URL(1000)		
<a href="#">Expiration Date</a>	Expiration_Date__c	Date		
<a href="#">External Data Source</a>	ExternalDataSourceId	Lookup(External Data Source)		
<a href="#">External ID</a>	ExternalId	Text(255)		
<a href="#">Last Modified By</a>	LastModifiedById	Lookup(User)		
<a href="#">Lot Number</a>	Lot_Number__c	Text(255)		
<a href="#">Manufacturer</a>	Manufacturer__c	Text(255)		
<a href="#">Product Class</a>	ProductClass	Picklist		

# Fields Created on Prescription Object

Navigated to **Setup > Object Manager > Prescription > Fields & Relationships**.



Status\_\_c (Picklist)

Created a **Status\_\_c** (Picklist) field with values: **New**, **In Review**, **Dispensed**.



Date\_Dispensed\_\_c (Date/Time)

Created a **Date\_Dispensed\_\_c** (Date/Time) field.



Prescription Name (Auto Number)

Created a **Name** (Auto Number) field.



Quantity\_Dispensed\_\_c (Number)

Created a **Quantity\_Dispensed\_\_c** (Number) field.



Search Setup



Setup

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Object Manager



SETUP > OBJECT MANAGER

## Prescription

Details

**Fields & Relationships**

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### Fields & Relationships

9 Items, Sorted by Field Label

Quick Find

New

Deleted Fields

Field Dependencies

Set History Tracking

FIELD LABEL



FIELD NAME

DATA TYPE

CONTROLLING FIELD

INDEXED

Client

Client\_\_c

Master-Detail(Contact)

✓

Created By

CreatedById

Lookup(User)

Date Dispensed

Date\_Dispensed\_\_c

Date/Time

Final Price

Final\_Price\_\_c

Currency(16, 2)

Last Modified By

LastModifiedById

Lookup(User)

Medication

Medication\_\_c

Lookup(Product)

✓

Prescription Name

Name

Auto Number

✓

Quantity Dispensed

Quantity\_Dispensed\_\_c

Number(18, 0)

Status

Status\_\_c

Picklist



# Lookup vs Master-Detail vs Hierarchical Relationships

**Action Taken:** Lookup Relationships were used to connect the Prescription object to other objects. This was chosen to maintain historical prescription data even if a related record (like a Patient or a Product) is deleted.



# Relationships Created on Prescription Object

1

Patient Relationship

A required Lookup Relationship to the **Contact** object, named Patient.

2

Medication Relationship

A required Lookup Relationship to the **Product** object, named Medication.

3

Pharmacist Relationship

A required Lookup Relationship to the **User** object, named Pharmacist.

# Page Layouts Configuration

**Action Taken:** The default page layout for the Prescription object was customized for better usability.

**Navigation:** Setup > Object Manager > Prescription > Page Layouts.

01	02	03
Edit Layout	Arrange Fields	Remove Unnecessary Fields
Clicked Edit on the "Prescription Layout".	Dragged and dropped fields to place the most important information (Patient, Medication, Pharmacist, Prescription_Date__c, and Status__c) at the top of the page.	Removed unnecessary fields (like the standard Owner field) from the layout.



Search Setup



Setup

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## Prescription

Details

Fields & Relationships

**Page Layouts**

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### Prescription Layout

[Mini Page Layout](#) [Mini Console View](#) | [Video Tutorial](#) [Help for this Page](#)

Save

Quick Save

Preview As...

Cancel

Undo

Redo

Layout Properties

#### Fields

Buttons

Quick Actions

Mobile & Lightning Actions

Expanded Lookups

Related Lists

Report Charts



Quick Find

Field Name



Section

Date Dispensed

Prescription Name

Blank Space

Final Price

Quantity Dispensed

Client

Last Modified By

Status

Created By

Medication

### Prescription Sample

#### Highlights Panel

Customize the highlights panel for this page layout...

#### Quick Actions in the Salesforce Classic Publisher

Actions in this section are currently inherited from the global publisher layout. You can [override the global publisher layout](#) to set a customized list of actions for the publisher on pages that use this layout.

#### Salesforce Mobile and Lightning Experience Actions

Actions in this section are predefined by Salesforce. You can [override the predefined actions](#) to set a customized list of actions on Lightning Experience and mobile app pages that use this layout. If you customize the actions in the Quick Actions in the Salesforce Classic Publisher section, and have saved the layout, then this section inherits that set of actions by default when you click to override.

# Compact Layouts & Schema Builder

## Compact Layouts

**Action Taken:** A custom compact layout was created to control the "at-a-glance" summary for prescriptions.

**Navigation:** Setup > Object Manager > Prescription > Compact Layouts.

- Clicked New to create a layout named Prescription Highlights.
- Added the Patient, Medication, Pharmacist, and Status\_\_c fields to the layout.
- Used the Compact Layout Assignment button to set this new layout as the primary one for the object.

## Schema Builder

**Action Taken:** The Schema Builder was used as a final verification tool to visualize the entire data model.

**Navigation:** Setup > Schema Builder.

- Cleared the canvas of all default objects.
- Selected the User, Product, and Prescription objects.
- Used the Auto-Layout feature to generate a clear diagram, confirming that all relationships were correctly established with the Prescription object at the center.



Search Setup



Setup

Home

Object Manager



## Schema Builder

[Help for this Page](#)

Close

Auto-Layout

View Options

Elements

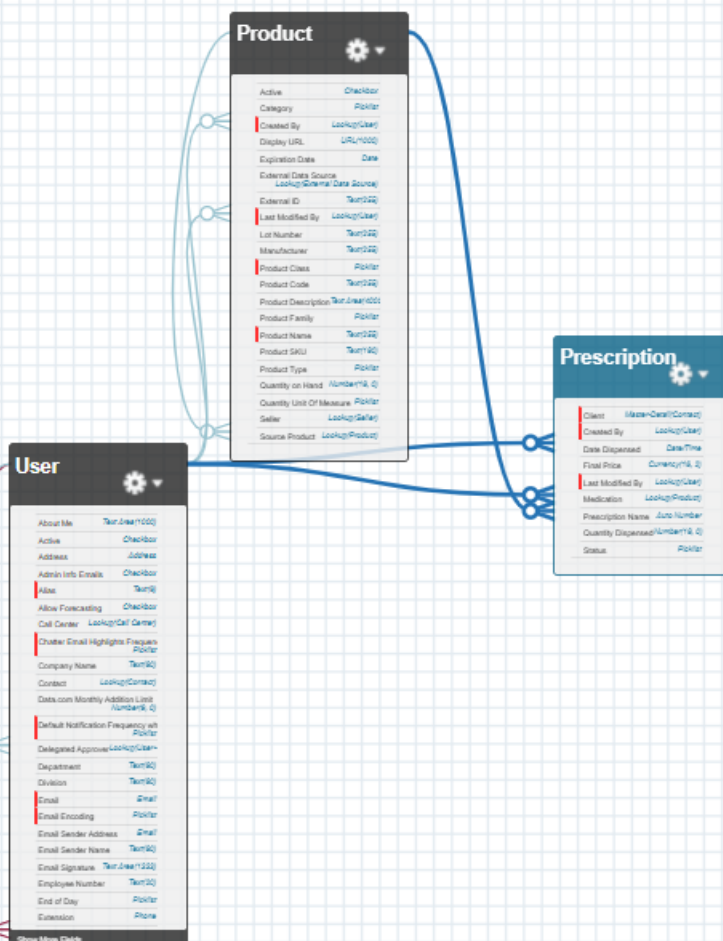
Objects

Select objects to display on the builder.

Select from All Objects

Quick Find...

- ☐ Opportunity Product
- ☐ Orchestration Run
- ☐ Orchestration Run Log
- ☐ Orchestration Stage Run
- ☐ Orchestration Step Run
- ☐ Orchestration Work Item
- ☐ Order
- ☐ Order Product
- ☐ Party Consent
- ☐ Payment
- ☐ Payment Authorization
- ☐ Payment Authorization Adjustment
- ☐ Payment Gateway
- ☐ Payment Group
- ☐ Payment Line Invoice
- ☐ Payment Method
- ☒ Prescription
- ☐ Price Book
- ☐ Price Book Entry



Legend

- Lookup Relationship
- Master-Detail Relationship
- Required Field

