PROJECT MANAGEMENT APP

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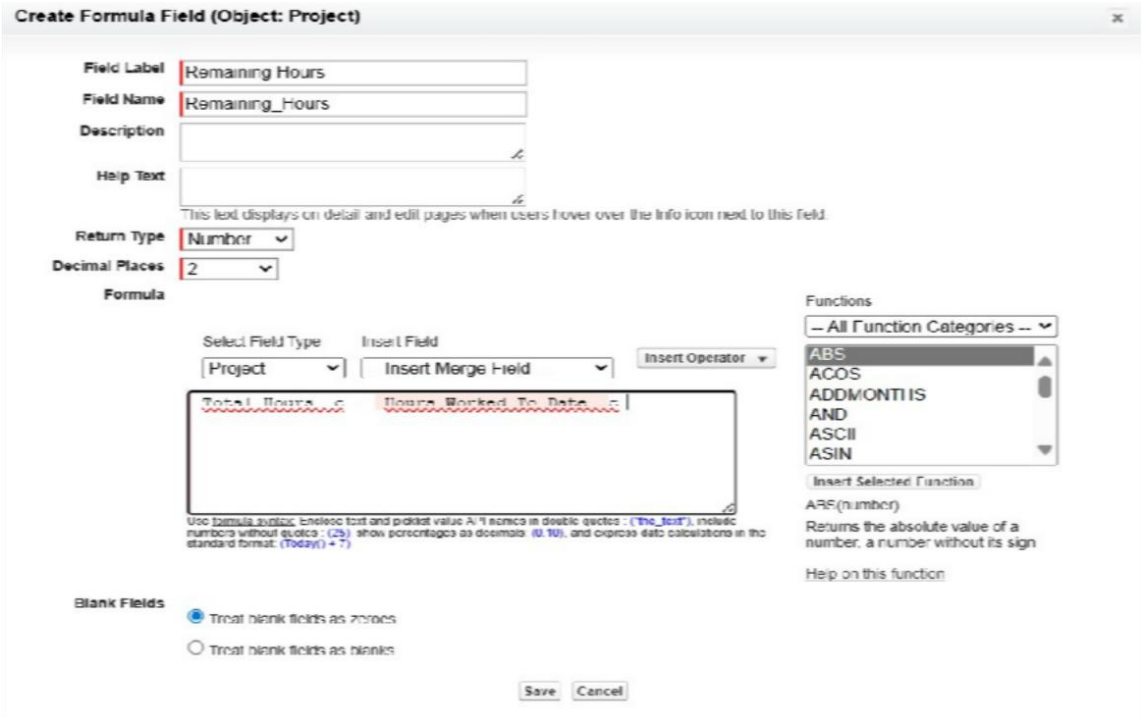
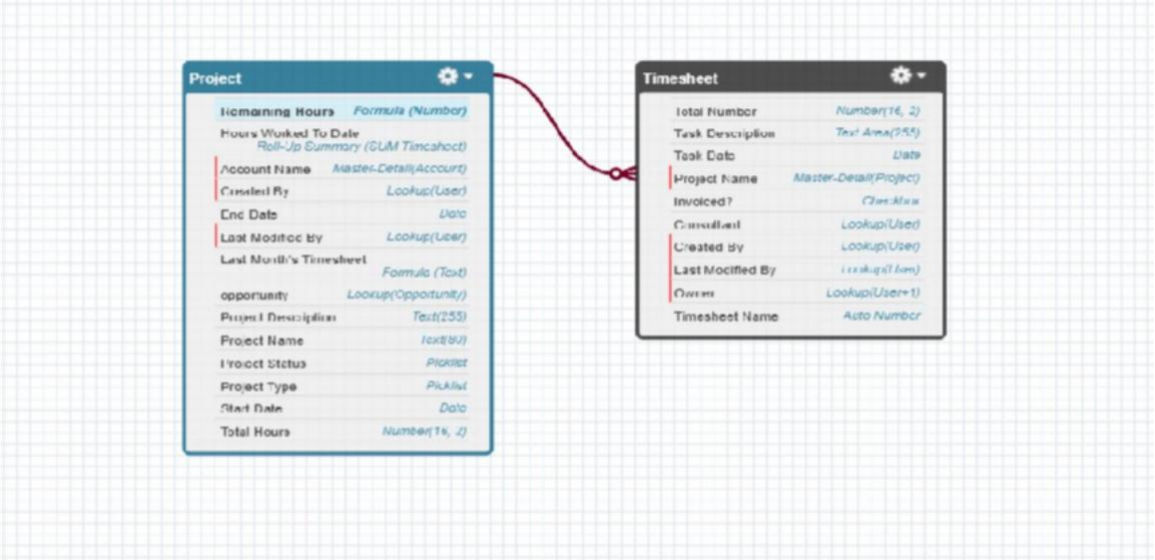
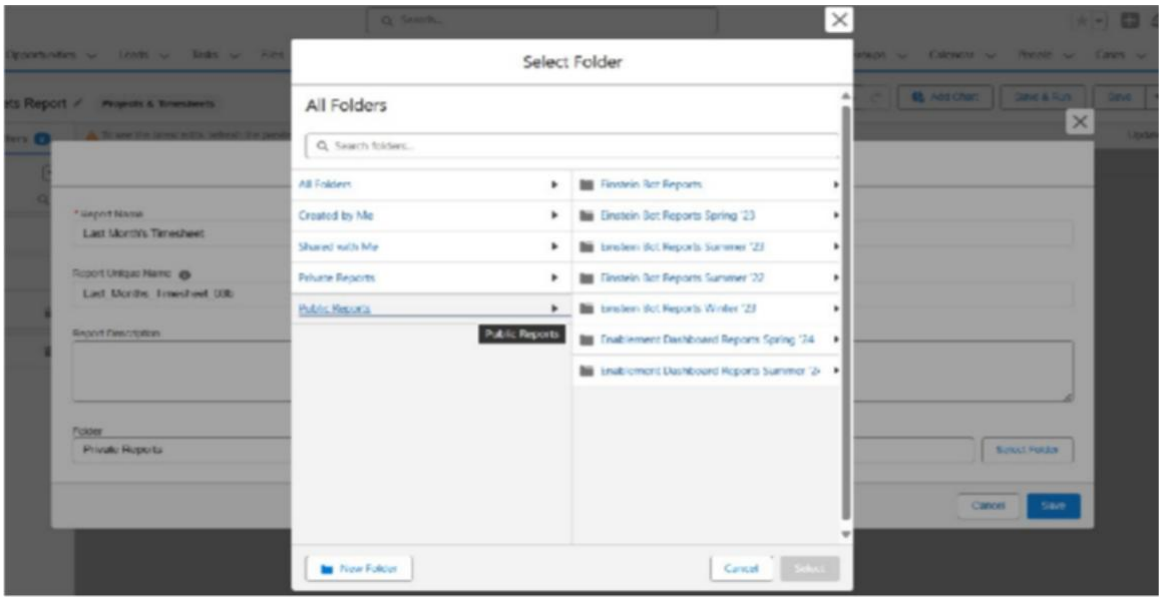
Phase 5: Apex Programming (Developer)

Goal: Implement advanced logic using Apex where declarative tools are not enough.

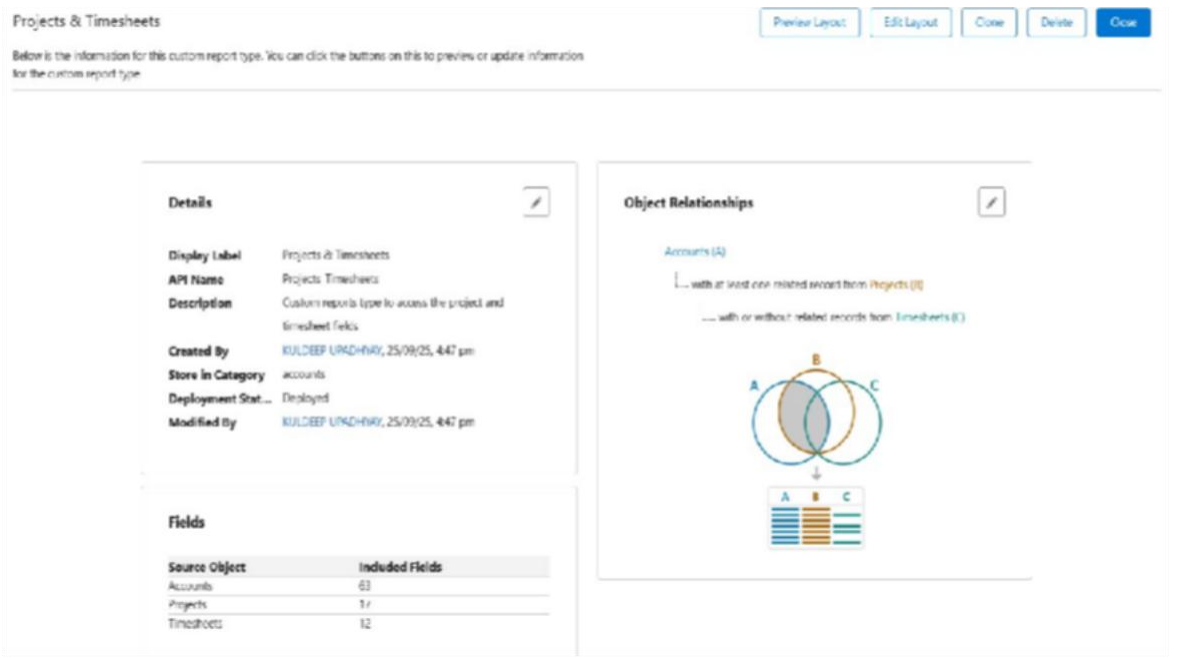
- Write Apex classes for task assignment and project scheduling logic.
- Implement triggers to prevent duplicate task assignments.
- Use SOQL queries to fetch real-time project data.
- Apply collections (List, Set, Map) to manage multiple records efficiently.
- Develop Batch Apex to auto-update overdue tasks daily.
- Use Queueable Apex for processing bulk task updates asynchronously.
- Implement Future methods for API callouts to external systems.
- Include robust exception handling for errors in processes.
- Write test classes ensuring at least 75% code coverage.

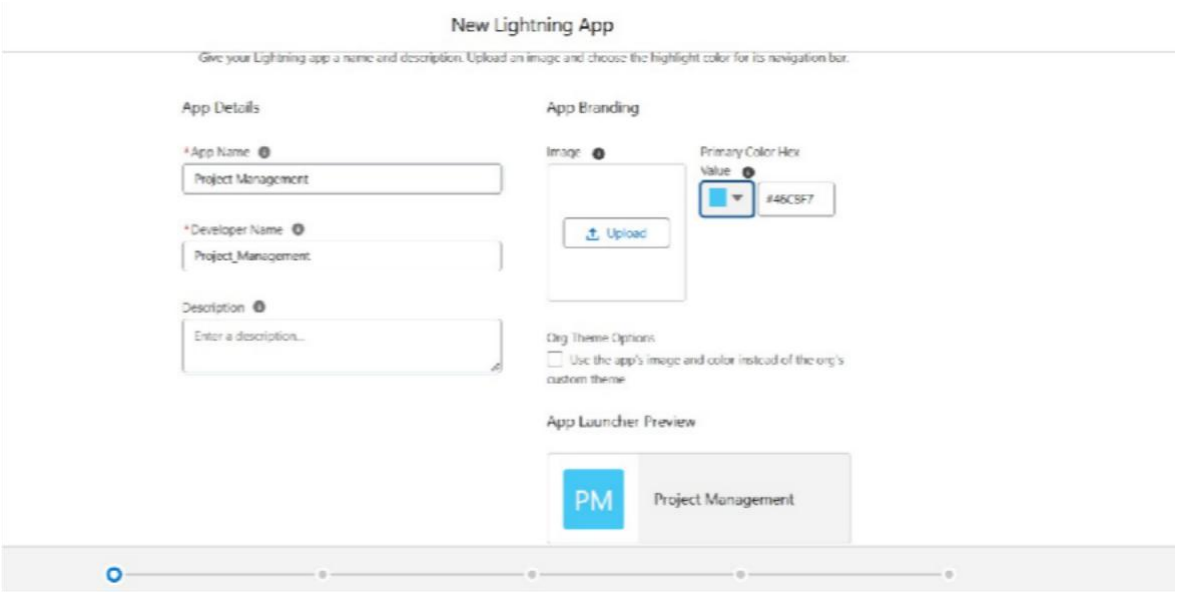



Project
Remaining Hours Formula (Number)
Hours Worked To Date
Roll-Up Summary (SUM Timesheet)
Account Name Master-Detail(Account)
Created By Lookup(User)
End Date Date
Last Modified By Lookup(User)
Last Month's Timesheet Formula (Text)
Opportunity Lookup(Opportunity)
Project Description Text(255)
Project Name Text(80)
Project Status Picklist
Project Type Picklist
Start Date Date
Total Hours Number(16, 2)
Timesheet
Total Number Number(16, 2)
Task Description Text Area(255)
Task Date Date
Project Name Master-Detail(Project)
Invoiced? Checkbox
Created By Lookup(User)
Last Modified By Lookup(User)
Owner Lookup(User,Group)
Timesheet Name Auto Number


Select Folder
All Folders
Search folders...
All Folders
Created by Me
Shared with Me
Private Reports
Public Reports
Public Reports
New Folder
Cancel
Select

A Accounts
Primary Object
B Projects
A to B Relationship:
Each "A" record must have at least one related "B" record.
"A" records may or may not have related "B" records.
C Timesheets
B to C Relationship:
Each "B" record must have at least one related "C" record.
"B" records may or may not have related "C" records.
Click to relate another object
A
B
C
A B C


Projects & Timesheets
Preview Layout
Edit Layout
Clone
Delete
Close
Below is the information for this custom report type. You can click the buttons on this to preview or update information for the custom report type
Details
Display Label
Projects & Timesheets
API Name
Projects_Timesheets
Description
Custom report type to access the project and timesheet fields
Created By
KULDEEP UPADHYAY, 25/09/25, 4:47 pm
Store in Category
accounts
Deployment Stat...
Deployed
Modified By
KULDEEP UPADHYAY, 25/09/25, 4:47 pm
Object Relationships
Accounts (A)
with at least one related record from Projects (B)
with or without related records from Timesheets (C)
A
B
C
Fields
Source Object
Included Fields
Accounts
63
Projects
17
Timesheets
12


New Lightning App
Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.
App Details
*App Name
Project Management
*Developer Name
Project_Management
Description
Enter a description...
App Branding
Image
Upload
Primary Color Hex Value
#46C5F7
Org Theme Options
Use the app's image and color instead of the org's custom theme
App Launcher Preview
PM
Project Management