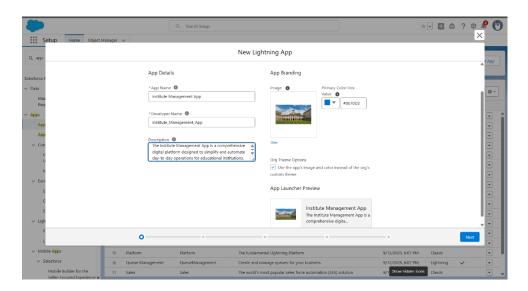
# INSTITUTE MANAGEMENT SYSTEM

# **Phase 6: User Interface Development**

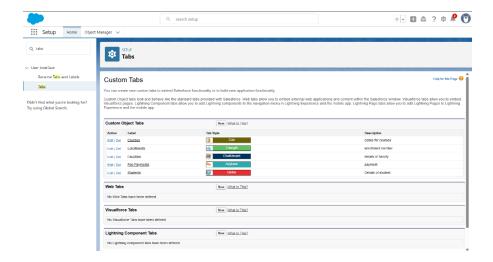
#### A. Create the Lightning App

- 1. Setup  $\rightarrow$  App Manager  $\rightarrow$  New Lightning App.
- 2. Name: Institute Management. Add branding (logo/color).
- 3. Navigation Items: add custom object tabs (Students, Courses, Enrollments, Fee Payments) + Reports + Dashboards.
- 4. Utility Bar: click Add, include actions like New Enrollment, New Fee Payment, Recent Items, Notes.
- 5. Assign the app to Profiles (Admin, Faculty, Accountant). Save.



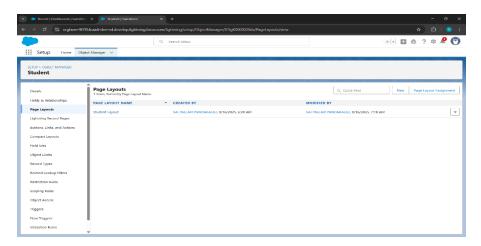
# B. Create Tabs for Objects and LWC

- Setup → Tabs → New → Custom Object Tab: create tabs for Student\_c, Course\_c, Enrollment\_c, Fee\_Payment\_c.
- 2. For LWC components you want as standalone tabs: Setup → Tabs → Lightning Component Tabs → New → pick your LWC and label it (done after deploying LWC).

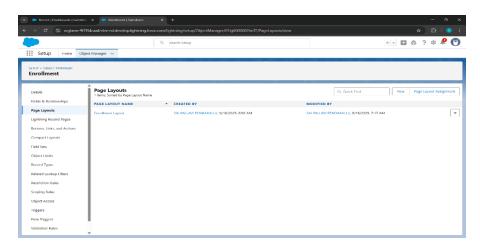


## C. Page Layouts & Quick Actions

1. Setup → Object Manager → open Student\_c → Page Layouts → Edit layout → drag Related Lists (Enrollments, Fee Payments). Save.

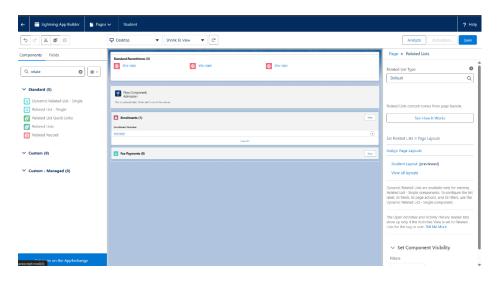


2. Setup → Object Manager → Enrollment\_c → Page Layouts → add Submit for Approval or custom quick actions if needed.



### D. Build Record Pages (Lightning App Builder)

- 1. App Launcher → open App Builder: Setup → Lightning App Builder → New → select Record Page.
- 2. Choose object (e.g., Student) → choose template (Header & Right Sidebar) → name (Student Record Page).
- 3. Drag standard components and your custom LWC (once deployed) onto the page: Related lists, Highlights, Quick Actions.
- 4. Click Activation → make it the org default for the object or assign by app/profile/record type. Save & Activate.

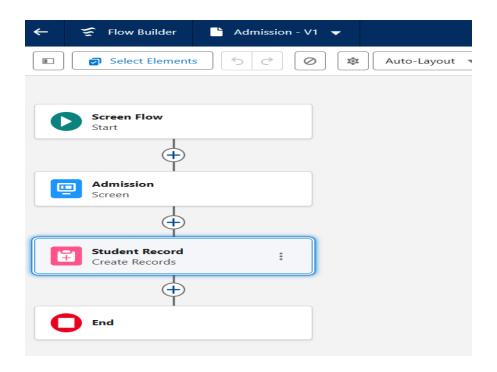


#### E. Screen Flow – Student Admission Form

Purpose: Let admins create a new student easily via a guided form.

#### Steps:

- 1. Go to Setup  $\rightarrow$  Flow  $\rightarrow$  New Flow  $\rightarrow$  Screen Flow.
- 2. Screen Element: Add fields for student details (Name, Email, Address, Course selection).
- 3. Create Records Element:
  - Object = Student
  - Map input fields to Student fields.
- 4. Connect elements  $\rightarrow$  Save  $\rightarrow$  Activate the Flow.



## **Lightning Web Component – Fee Calculator**

Purpose: Allow quick calculation of fees (e.g., Course Fee – Paid Amount = Outstanding Fee).

### LWC Development Steps:

1. Create Project (in VS Code Command Palette):

SFDX: Create Project with Manifest

2. Create LWC:

SFDX: Create Lightning Web Component

Name → feepayment

- 3. Edit Files:
  - feepayment.html → Create form (inputs for Course Fee & Paid Fee).

feepayment.js → Logic to calculate outstanding fee.

feepayment.js-meta.xml → Expose component to Record Page.

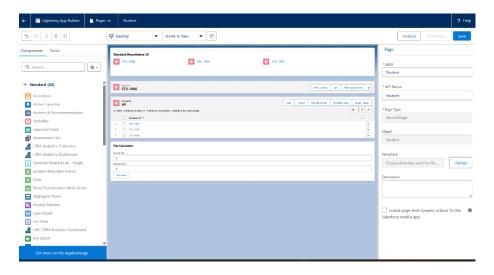
#### **Deploy Component:**

sf project deploy start --metadata LightningComponentBundle:feepayment -o

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#### Add to Lightning Page:

- Go to Lightning App Builder → Drag feepayment onto Student Page.



#### **Results:**

- Student Page: Displays student info and related records in a tabbed layout.
- Screen Flow: Enables guided student admission.
- Fee Calculator LWC: Interactive tool for fee management.
- Overall Outcome: Clean, intuitive, and functional UI for managing student-related data in Salesforce.