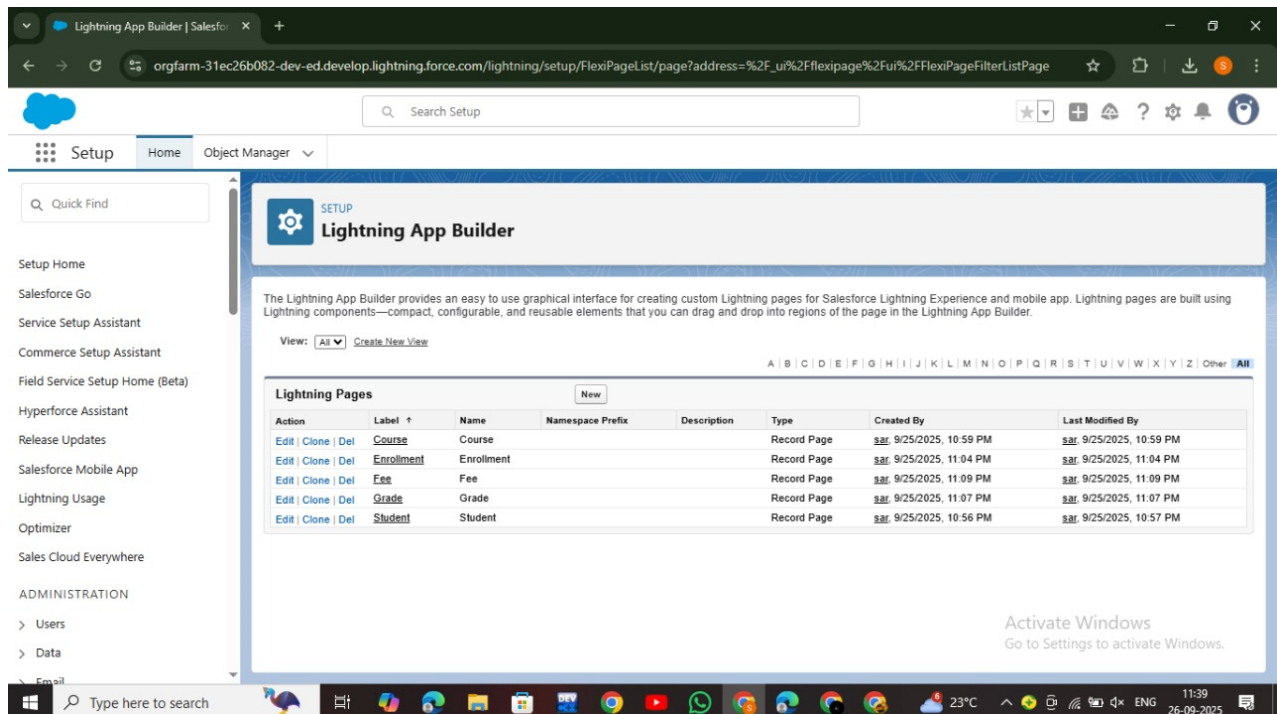


# Phase 6 — User Interface Development (Student CRM)

## 1. Lightning App Builder

- Path: **Setup** → **App Builder** → **Lightning Record Pages**
- Create record pages:
  - **Student – Teacher View**
    - Display: Assigned Students, related Grades, Course Enrollments.
  - **Student – Parent View**
    - Display: Child's information, Grades, Fee Status (*Read-only*).



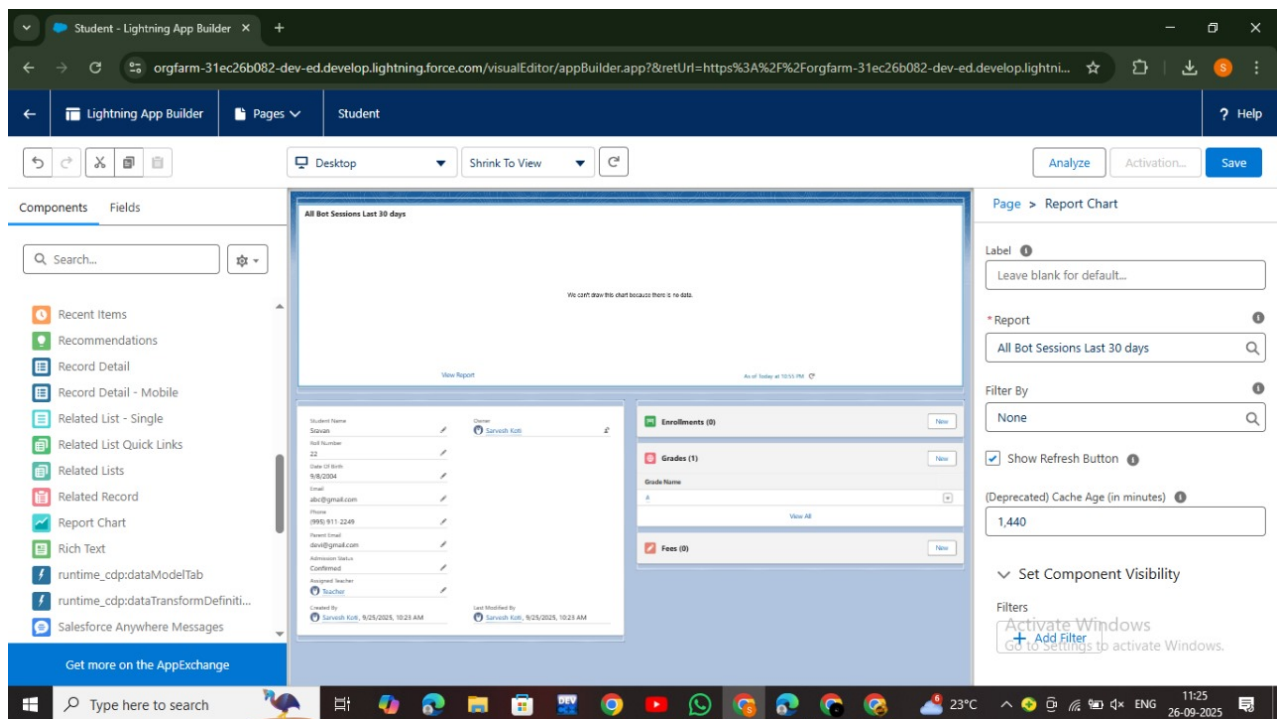
- Assign each record page to respective profiles:
  - Teacher → Teacher View
  - Parent → Parent View

## 2. Record Pages

- **Student – Teacher View**

Components:

- Student Details
- Assigned Students List (via Related List)
- Grades
- GPA Summary
- Fee Summary (*Read-only*)



- **Student – Parent View**

Components:

- Student Details
- Child's Grades
- Fee Details

- **Admin View**

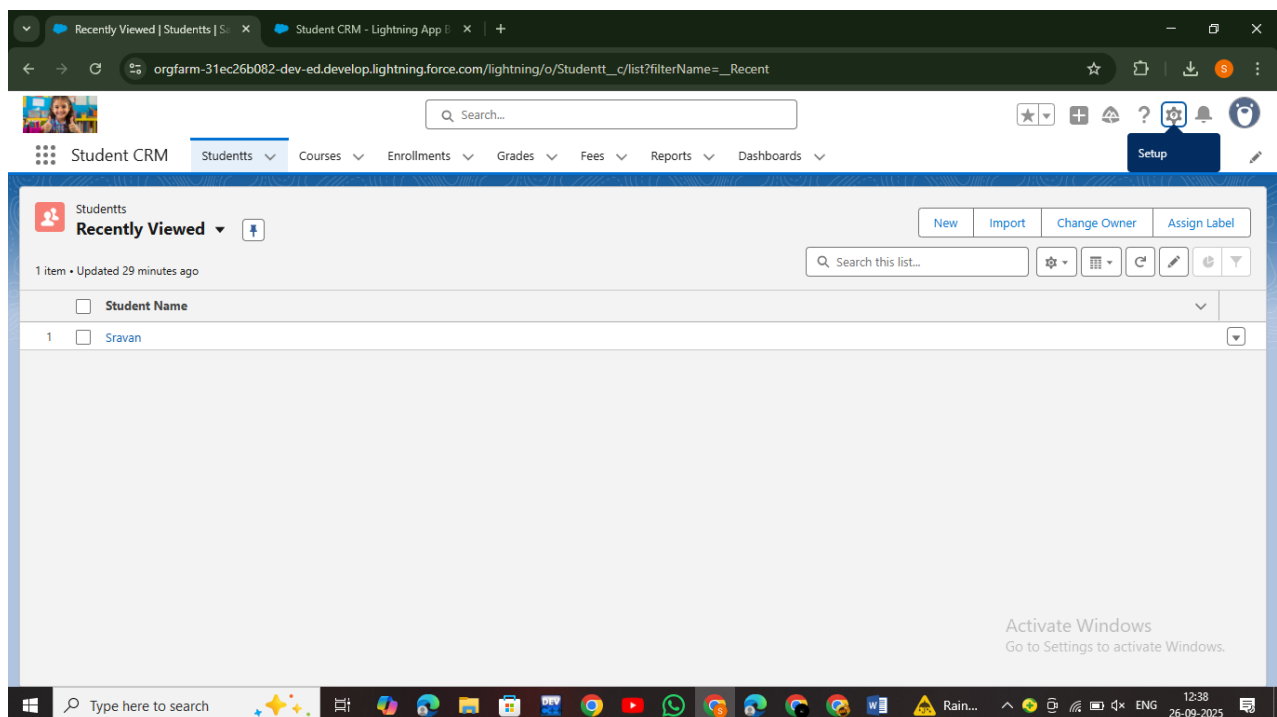
Components:

- Courses
- Fees
- Grades
- Enrollments
- **Action:** Activate each page per profile/record type.

### 3. Tabs

Expose key objects as tabs in the Student CRM app:

- Students
- Courses
- Enrollments
- Grades
- Fees
- Reports
- Dashboards



#### **4. Home Page Layout**

Custom **Student CRM Home Page** should include:

- **Dashboard Component**
  - Pending Fees Report
  - Average GPA Report
- **List Views**
  - Recently Admitted Students
  - Upcoming Exams
- **Reports**
  - Student Count by Course
  - Fees Paid vs Pending

#### **5. Utility Bar**

Utility Bar for Student CRM App:

- Quick Actions:
  - “Create Student”
  - “Record Fee Payment”
- Reports/Dashboards:
  - One-click analytics access

#### **6. Lightning Web Component (LWC) — Upcoming Exams / Fee Due**

LWC should display:

- **Upcoming Exams**
  - Course + Date + Student
- **Pending Fees**

- Student + Fee Type + Due Date + Status

Placement:

- Teacher View → Upcoming Exams
- Finance View → Pending Fees

## 7. Apex with LWC

Create Apex Class **StudentController** to query:

- All **Grade\_\_c** records with *Exam\_Date\_\_c in future*
- All **Fee\_\_c** records with *Status = "Pending"*
- LWC calls this class via **@wire adapter** to fetch data

## 8. Wire Adapters

- Use **@wire** in LWC for real-time updates.
- Data auto-refreshes when changes occur.
- No manual refresh required.

## 9. Results to Validate

- Teachers → See live list of upcoming exams & assigned students.
- Parents → View child's details, grades, fee status (custom page).
- Finance Officers → Quickly view pending fees & record payments.
- Admin → Real-time monitoring of Students, Courses, Fees, Grades.
- Utility Bar → One-click access to reports, analytics, quick actions.