

Smart Education Portal

Phase 6: User Interface (UI) Development

This phase focuses on building the interactive UI using Lightning Web Components (LWC) so that students, faculty, and admissions officers can interact efficiently.

Step 1: Apex Controllers

- ApplicationController.cls → Fetches student application details, interview schedules, and enrollment records.

Purpose & Use:

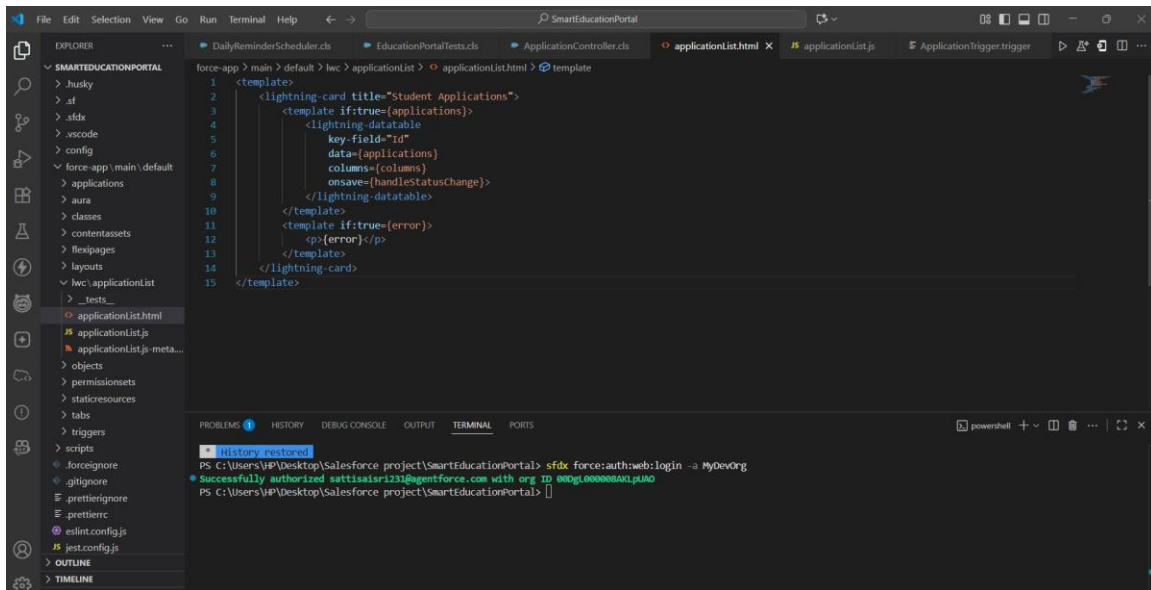
This Apex controller works as the backend for the student portal. It gets student application details, upcoming interviews, and course enrollments. Lightning components (LWC) use it to show real-time information to students and faculty.

Key Functions:

1. **getStudentApplications(studentId)** – Shows all applications submitted by a student, newest first.
2. **getUpcomingInterviews(studentId)** – Shows upcoming interviews for the student, sorted by date.
3. **getEnrollments(studentId)** – Shows all courses the student is enrolled in, with status.
4. **getApplicationSummary(studentId)** – Gives a summary of applications by their status (like applied, admitted, rejected) for dashboards.

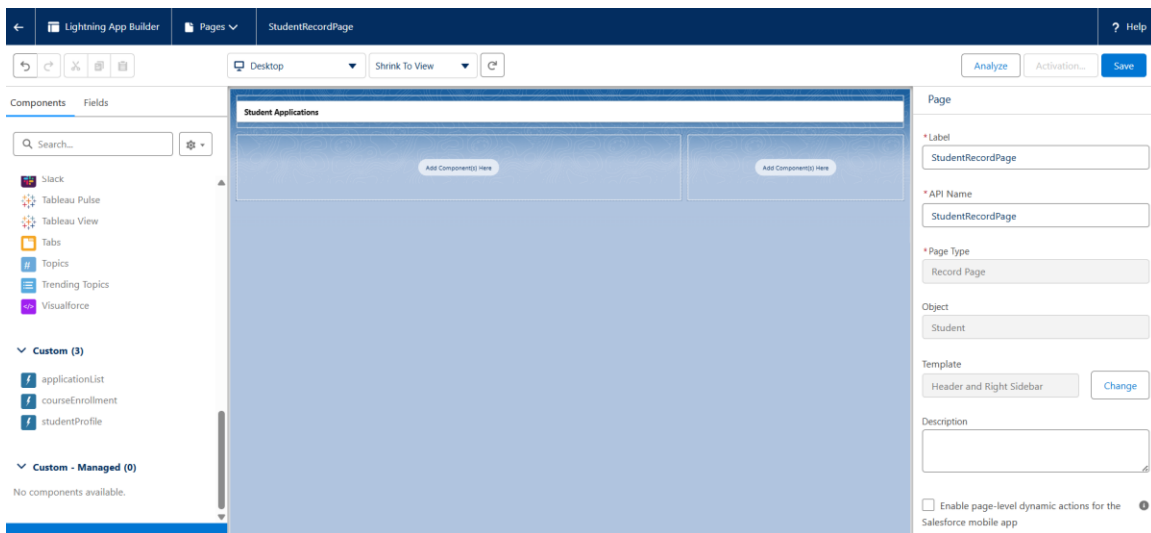
How it's Used:

- Student LWCs show applications, interviews, and course enrollments using these functions.
- When a student opens their portal, this controller fetches the latest data



Step 3: Adding Components to Pages

- Student Record Page → Sidebar: studentProfile, Main Section: applicationList, courseEnrollment



Step 4: Testing the UI

- Scenario 1 → Student logs in → sees applications, can enroll in courses.
- Scenario 2 → Admissions officer opens application list → can shortlist or approve applications.
- Scenario 3 → Student clicks 'Book Counseling Session' → appointment modal opens with prefilled details.
- Scenario 4 → Faculty member views assigned courses → sees student enrollment list.

