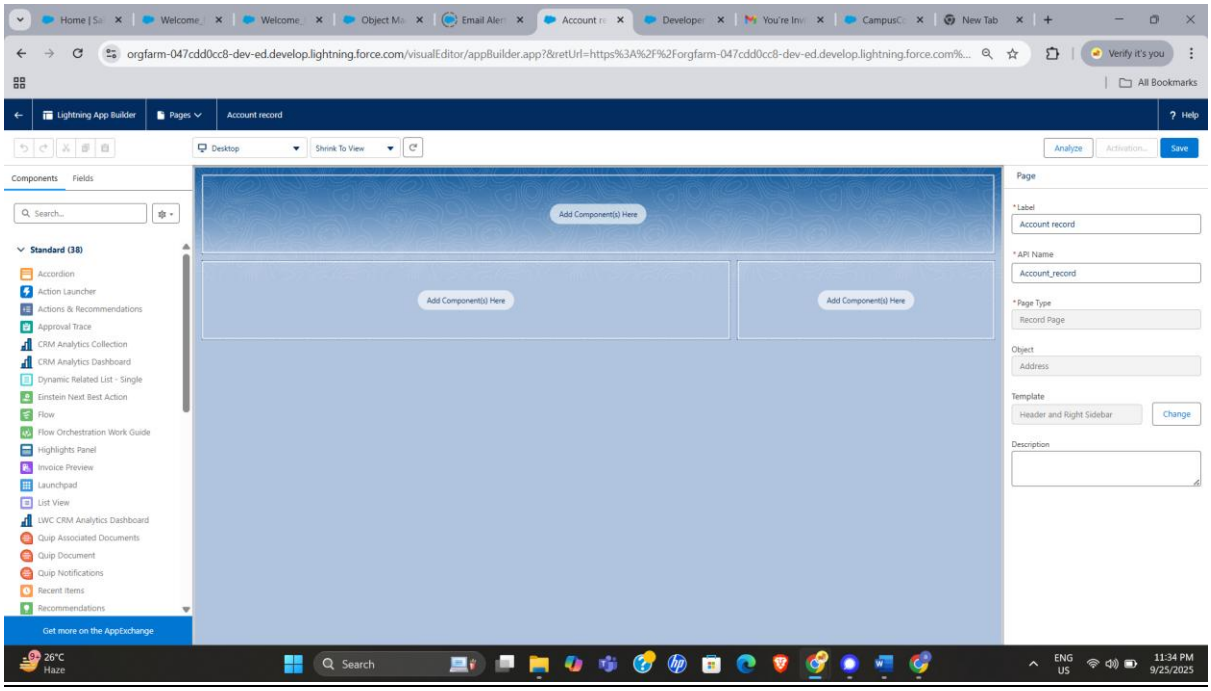
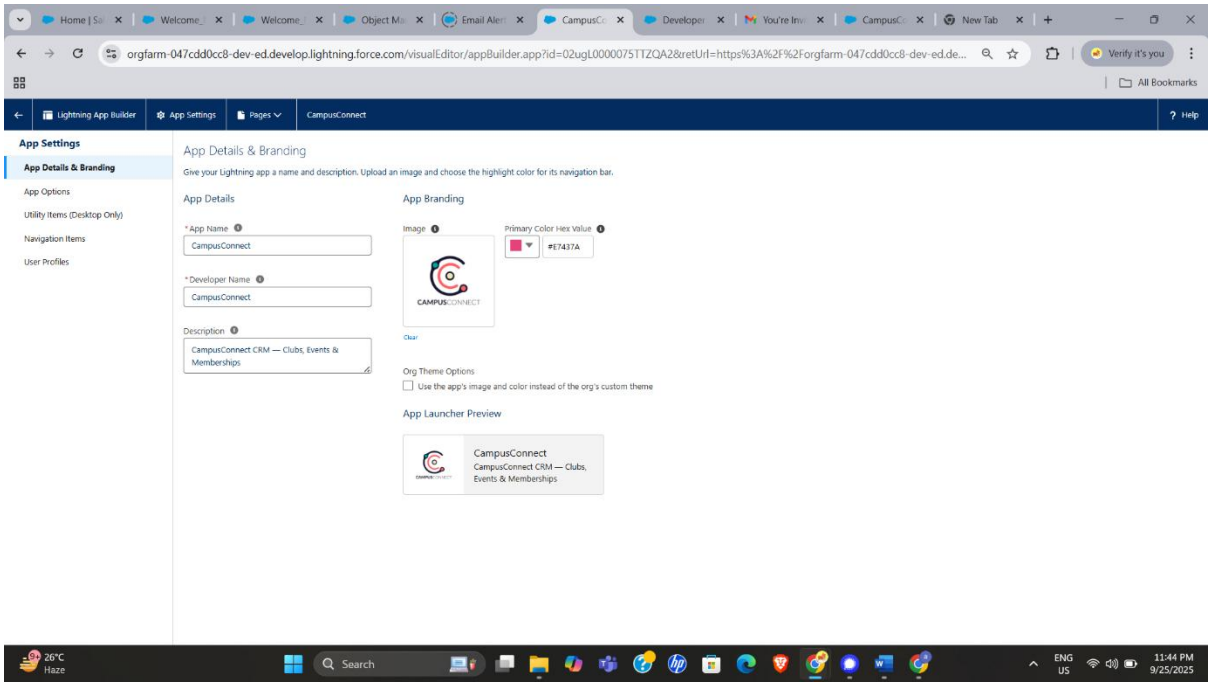
Phase 6: User Interface Development (Campus CRM + Student Club)

Screenshots:-

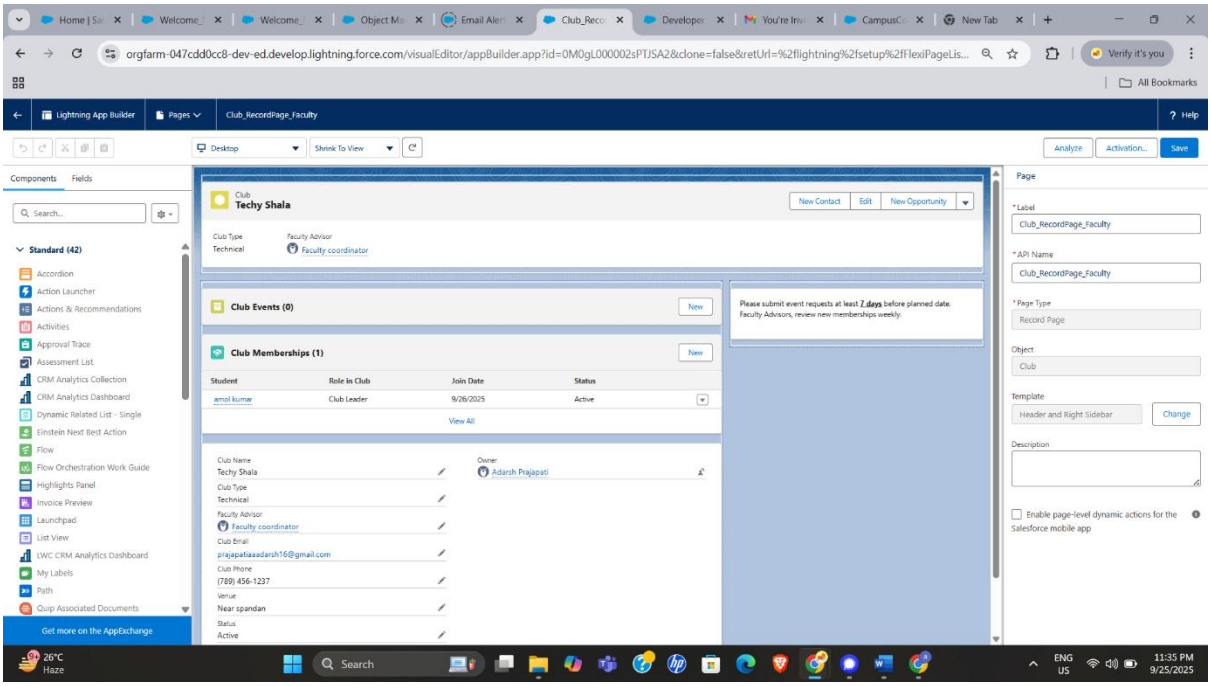
Lightning App Builder:-



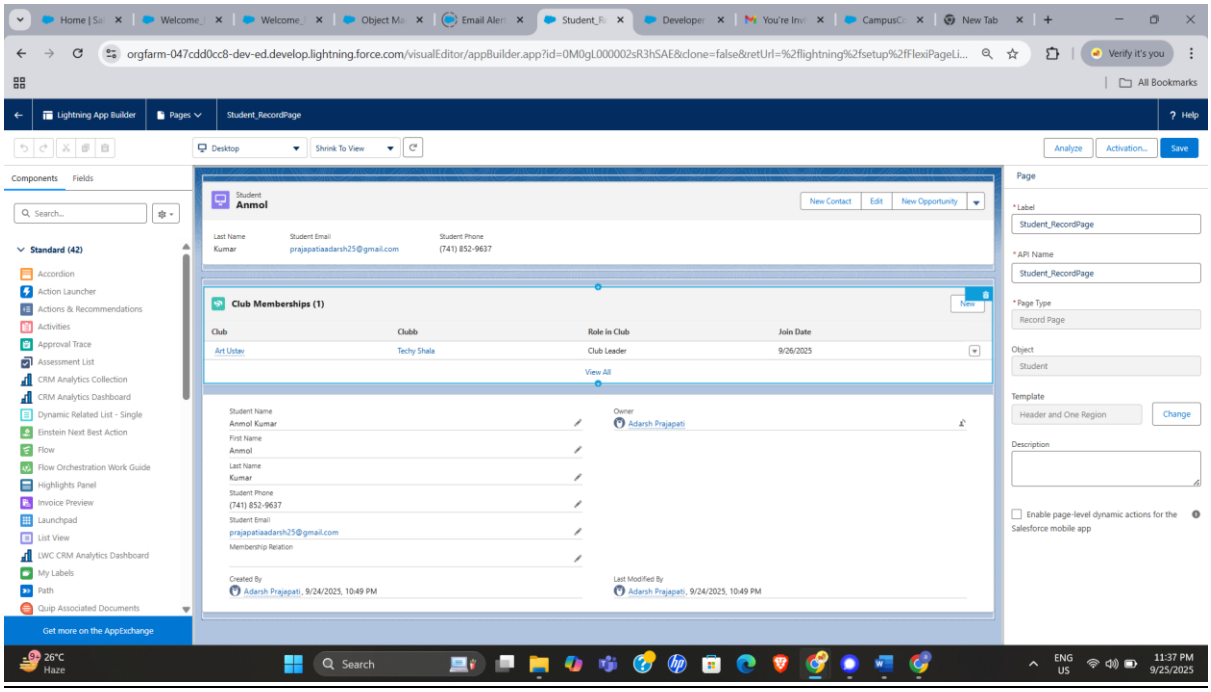
App details:-



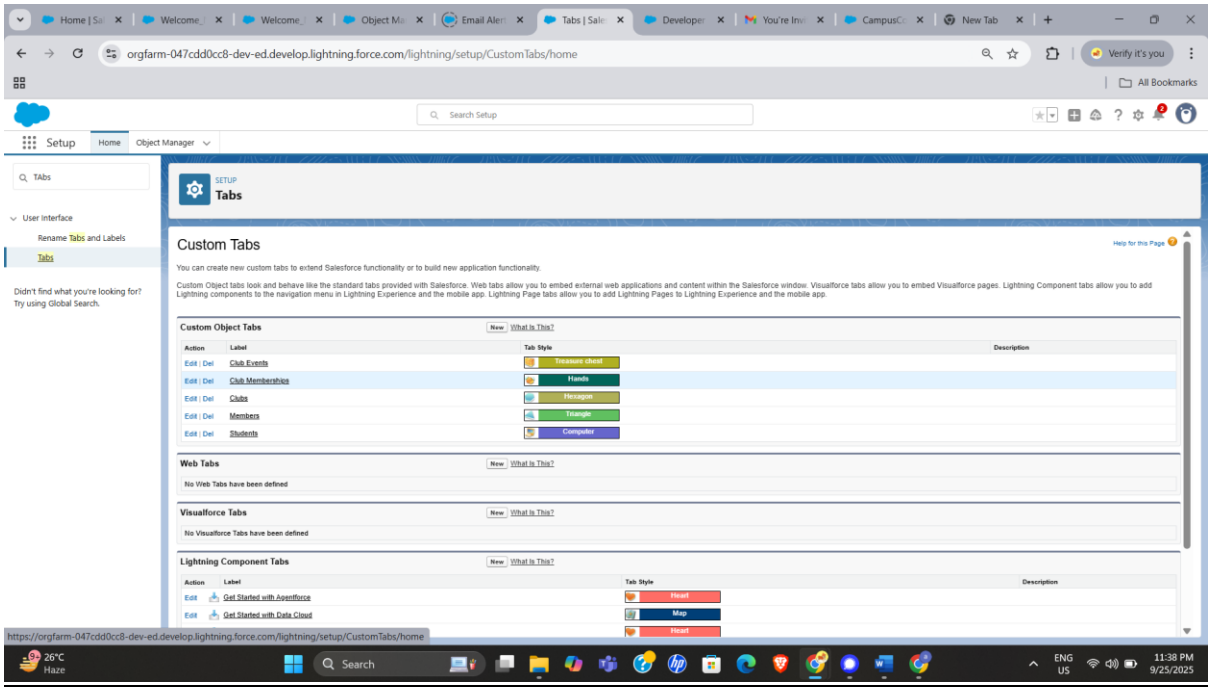
Record Pages(Club):-



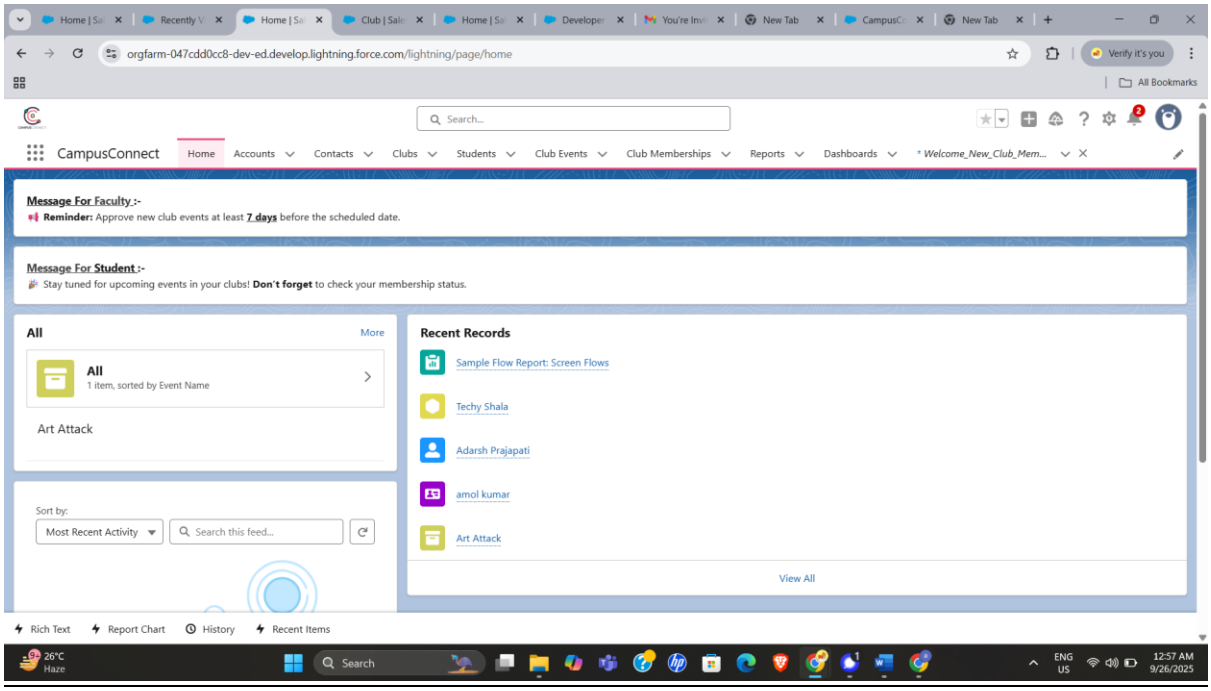
Student Record Page:-



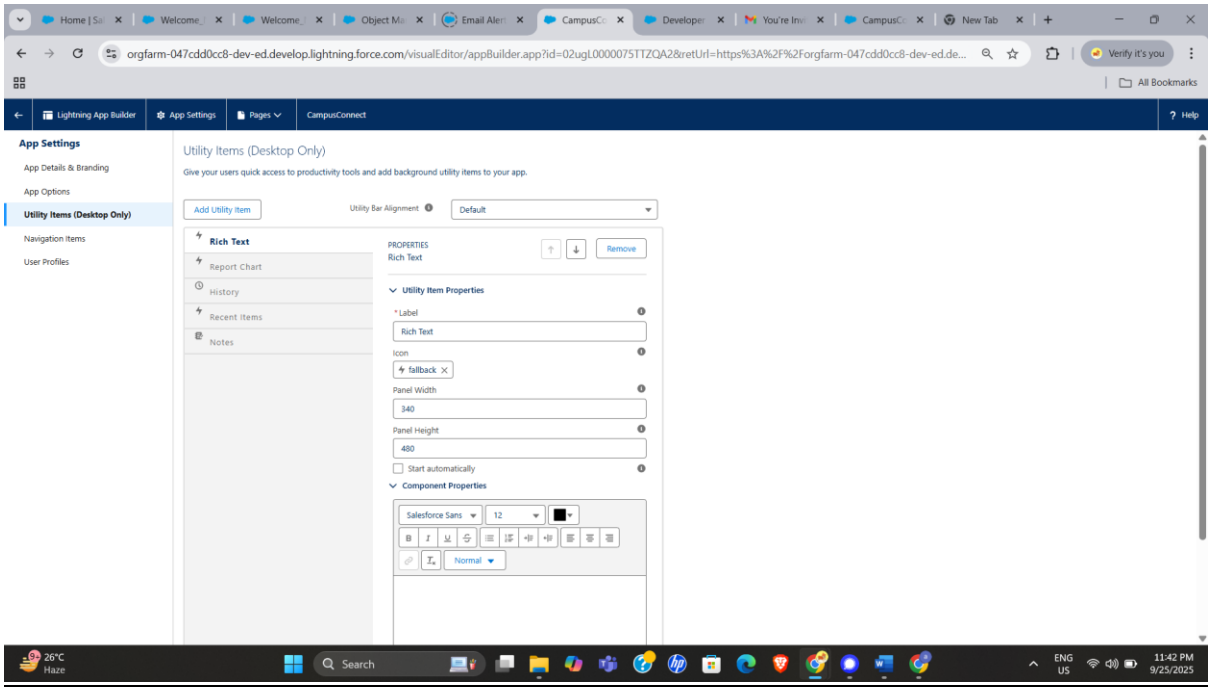
Tabs:-



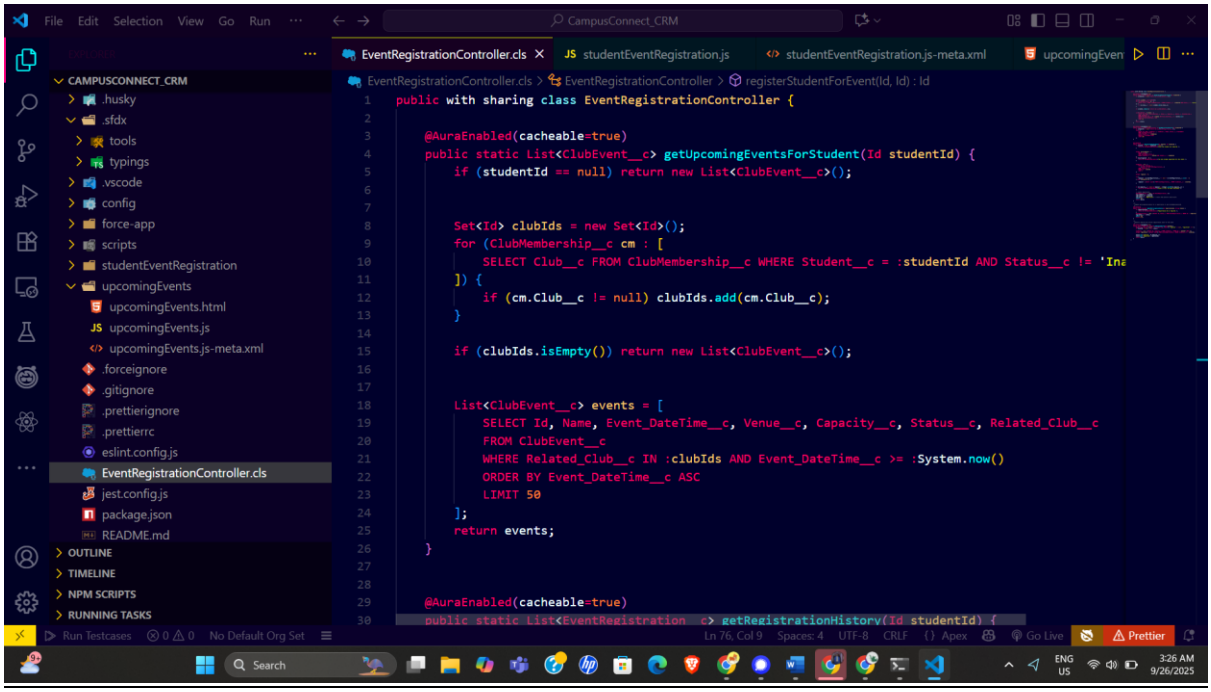
Homepage Layout:-



Utility Bar Items:-



LWC Event Controller:-



“Rest of the codes in GitHub.”

Documentation:-

Lightning App Builder

- Created a **CampusConnect Lightning App** that serves as the central interface for faculty, club leaders, and students.

- Configured **custom Lightning Pages**:
    - **Club Management Page** – view and manage student clubs.
    - **Event Management Page** – register, track, and manage upcoming events.
    - **Student Dashboard** – personalized view for students to track participation and registrations.

Record Pages

- Designed **custom record pages** for major objects:
    - **Club Record Page** → displays club details, leader, members, and related events.
    - **Event Record Page** → shows event details, registration list, and event capacity tracker.
    - **Student Record Page** → displays academic profile, participation history, and registered events.
- Added **related lists** and **quick actions** to simplify navigation.

Tabs

- Created **custom tabs** for easy access:
    - Student, Club, Event, Event Registration, Participation History.
- Grouped all tabs under **CampusConnect App Navigation**.

Home Page Layouts

- Customized **Home Page** for each profile:
    - **Faculty Coordinator Home** → highlights upcoming events, student reports, and club statistics.
    - **Club Leader Home** → shows quick access to event creation and student registrations.
    - **Student Home** → displays personalized announcements and event suggestions.

Utility Bar

- Added a **Utility Bar** to the CampusConnect app with quick-access tools:
    - **Notes Utility** → for faculty/club leaders to jot down event-related notes.
    - **Recent Items** → faster navigation between records.

- **Quick Notifications Panel** → integrated with custom notifications from Phase 4.

Lightning Web Components (LWC)

- Built **custom LWC components** for enhanced user experience:
  1. **StudentEventRegistration** → interactive event registration form with real-time validation.
  2. **UpcomingEvents** → personalized student feed displaying upcoming events relevant to their club/department.

Apex with LWC

- Connected **Apex Controllers** with LWCs to perform server-side operations:
  - Fetch student registration history.
  - Update event participation status.
  - Fetch real-time event capacity and availability.

Navigation Service

- Integrated **Navigation Service** in LWCs for smooth transitions:
  - From *UpcomingEvents* → Event Record Page.
  - From *Student Dashboard* → Participation History.
  - Enabled deep linking so students can directly access specific event pages from emails/notifications.

Key Benefits Delivered in Phase 6

- Delivered a **modern, dynamic UI** tailored to each role (faculty, club leaders, students).
- **LWCs improve performance** and responsiveness compared to standard layouts.
- **Utility Bar + Navigation Service** simplify record navigation and enhance productivity.
- **Real-time event tracking** via wire adapters and imperative Apex ensures accuracy.
- Increased **engagement and adoption** through interactive dashboards and personalized views.