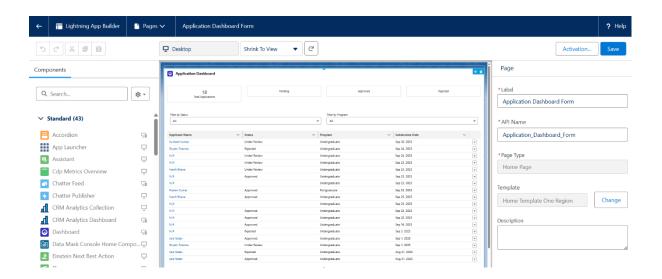
# **Phase 6: User Interface Development**

**Goal:** Make the Student Success Hub app user-friendly by customising Lightning pages, adding navigation options, and building interactive LWCs integrated with Apex.

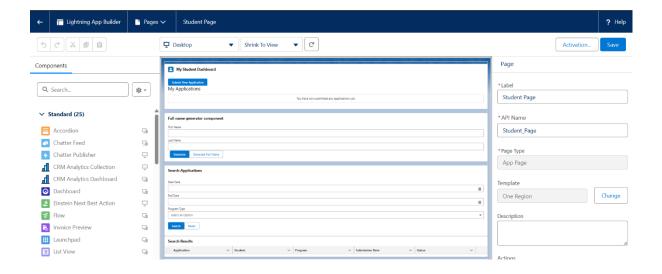
## 1. Lightning App Builder

- The Student Success Hub App was customised using Lightning App Builder.
- Navigation items were added: Students, Applications, Mentorship Sessions, Reports, and Dashboards.
- The app provides one central workspace for staff to manage students, applications, and mentorship activities.



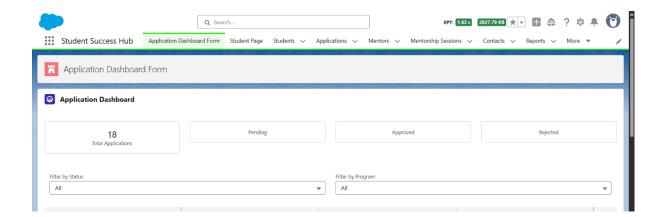
# 2. Record Pages

- Student Record Page → Displays student details (name, contact info) with related lists of Applications and Mentorship Sessions.
- Application Record Page → Shows program type, submission date, and application status with a Path Component for stage tracking (Submitted → Under Review → Approved/Rejected).
- Mentorship Session Record Page → Displays mentor, student, date, and session notes with related sessions for continuity.



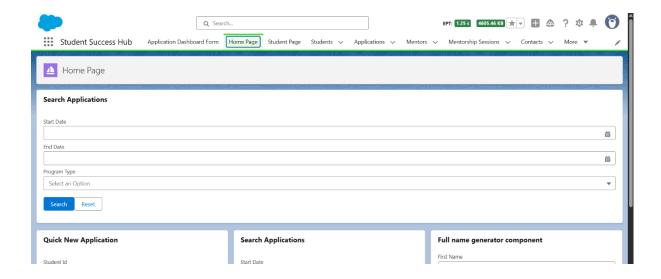
#### 3. Tabs

- Students Tab → Quick access to all students.
- Applications Tab → View and filter applications by status.
- Mentorship Sessions Tab → View upcoming and past mentorship meetings.



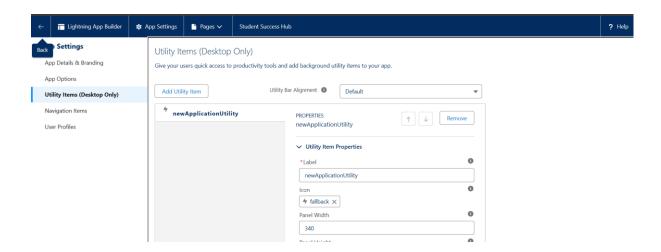
## 4. Home Page Layouts

- A custom Home Page was created for coordinators and mentors.
- Key elements added:
  - Dashboard → Displays application distribution by status.
  - Recent Records → Provides quick access to recently used Students and Applications.
  - Assistant → Reminders for upcoming mentorships and pending reviews.



### 5. Utility Bar

- A Quick Action: A new application has been added to the utility bar.
- Allows staff to create a new application without leaving their current page.



# 6. Lightning Web Components (LWC)

- Search Applications by Student component developed.
- Input: Student name or program type.
- Output: Applications displayed in a datatable.
- The LWC ensures faster searching and better visibility of student applications.

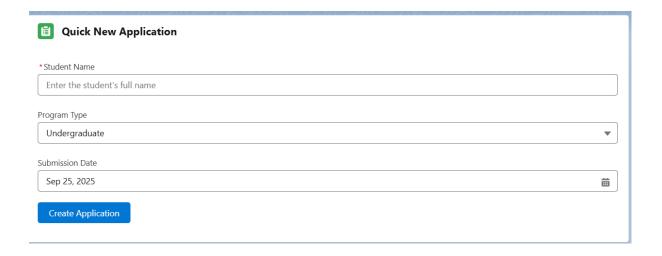


#### 7. Apex with LWC

- Apex methods were written in ApplicationController.cls for data access.
- Features:
- Fetch applications for a given student/program.
- Create new applications.
- Create mentorship sessions linked to applications.

#### 8. Events in LWC

- Implemented event handling between components:
  - o Child Component (Search Form) → fires an event with input criteria.
  - Parent Component (Results Table)  $\rightarrow$  listens to the event and updates the data shown.



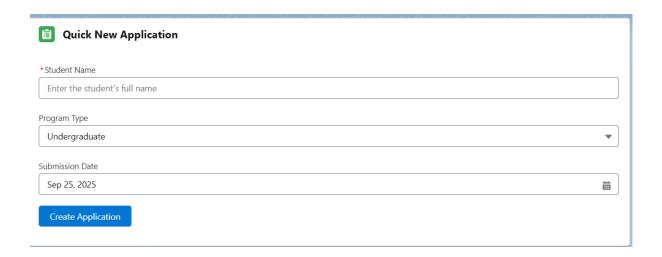
### 9. Wire Adapters

- Used @wire to automatically fetch data from Apex for the applications list.
- Ensures that data updates when underlying records change.

```
JS mentorDashboardForm.js ×
Student-Success-Hub > force-app > main > default > lwc > mentorDashboardForm > JS mentorDashboardForm.js > ...
      export default class MentorDashboard extends LightningElement {
           @track sessions;
           menteeColumns : ({ label: string; fieldName: string; type... = MENTEE_COLUMNS;
           sessionColumns : ({ label: string; fieldName: string; type... = SESSION_COLUMNS;
           @wire(getRecord, { recordId: '$recordId', fields: MENTOR FIELDS })
           0 references
           mentor;
           @wire(getMenteesForMentor, { mentorId: '$recordId' })
           wiredMentees({ error, data } : { error: any; data: any }) : void {
               if (data) {
                   this.mentees = data.map(item : any => ({
                        ...item,
                       studentName: item.Student__r.Name,
                                                                // 🖊 Fixed
                       studentEmail: item.Student__r.Email,
                        studentPhone: item.Student__r.Phone,
                                                                // 🌌 Fixed
                        studentUrl: `/${item.Student__c}`
```

### 10. Imperative Apex Calls

- Used for actions that require user input:
- On clicking "Submit Application" → Apex method called to insert new Application c record.
- On clicking "Create Mentorship Session" → Apex method called to insert new Mentorship\_Session\_c record.



## 11. Navigation Service

- After creating an application or mentorship session, the user is redirected to the corresponding record page.
- This ensures seamless workflow without manual navigation.

```
D 5
JS newApplicationUtility.js ×
Student-Success-Hub > force-app > main > default > lwc > newApplicationUtility > \  \  \, \\ JS = newApplicationUtility. \\ JS 
                        import { LightningElement, track } from 'lwc';
                         import createApplication from '@salesforce/apex/ApplicationController.createApplicatio
                        import { NavigationMixin } from 'lightning/navigation';
                        export default class NewApplicationUtility extends NavigationMixin(LightningElement) {
                               3 references
                        studentId : string = '';
                               programType : string = 'Undergraduate';
                                2 references
                               submissionDate : string = new Date().toISOString().split('T')[0];
                                @track message;
                                0 references
                                get programOptions(): { label: string; value: string }[] {
                                              { label: 'Undergraduate', value: 'Undergraduate' },
                                               { label: 'Postgraduate', value: 'Postgraduate' }
                                0 references
```