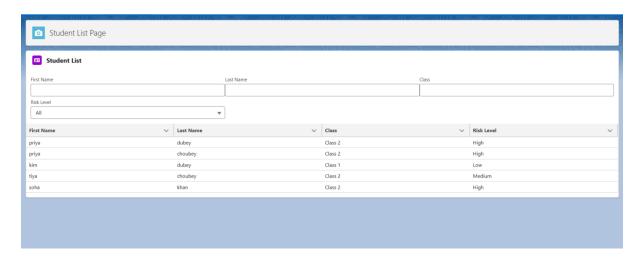
Phase 6: User Interface Development

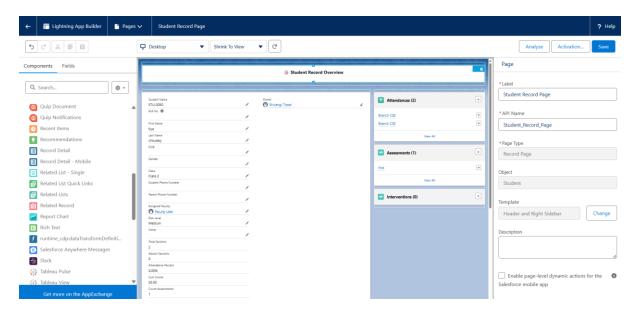
1. Lightning App Builder

• Built Student List App Page showing all students with some fields and Risk Level filter.



2. Record Pages

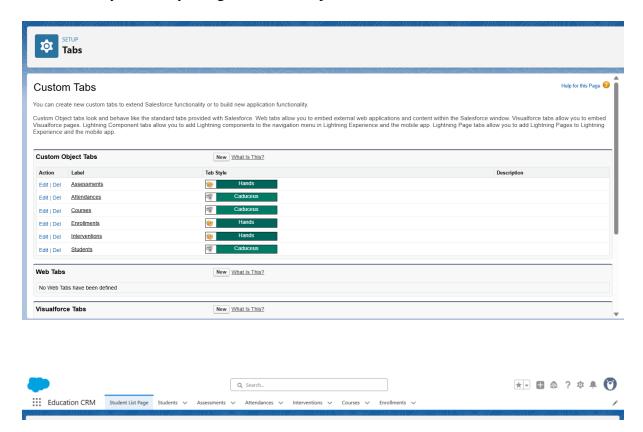
- Built Student Record Page for 360° view with related lists.
- Custom layout for Student c showing key fields: Name, Class, Risk Level.
- Related lists: Assessments, Attendance, Interventions.



3. Tabs

• Added Student, Course, Assessment, Attendance, Intervention, Enrollment tabs.

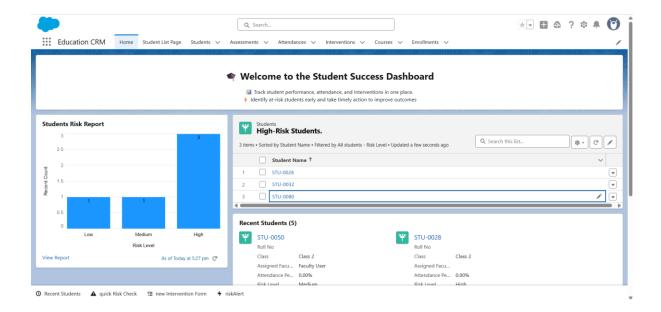
• Faculty can easily navigate between objects.



4. Home Page Layouts

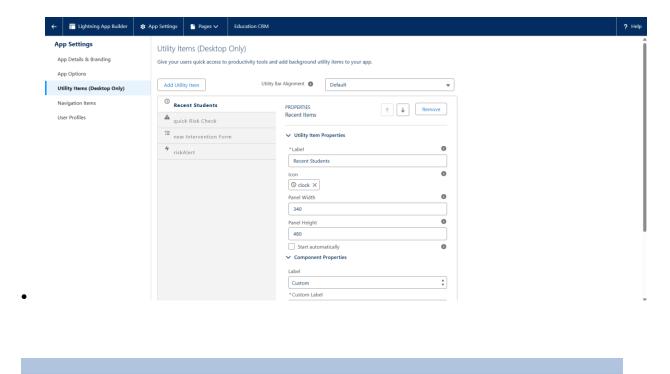
Created a Student Success Dashboard home page :-

- Added Risk Level Report Chart to visualize High/Medium/Low students.
- Added High-Risk Students List which displays students needing immediate attention for timely interventions.
- Added Recent Items which provides easy access to recently viewed records and common tasks.



5. Utility Bar

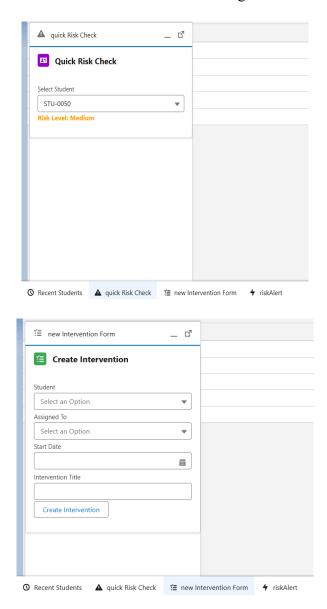
- Added Quick Risk Check LWC to view recent students' risk anytime.
- Added New Intervention Form LWC for quick creation of interventions.
- Added Risk Alert LWC to highlight high risk students.

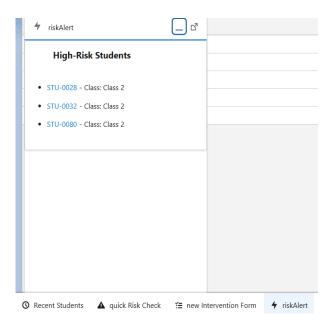


6. Lightning Web Components (LWC)

O Recent Students ▲ quick Risk Check ' new Intervention Form

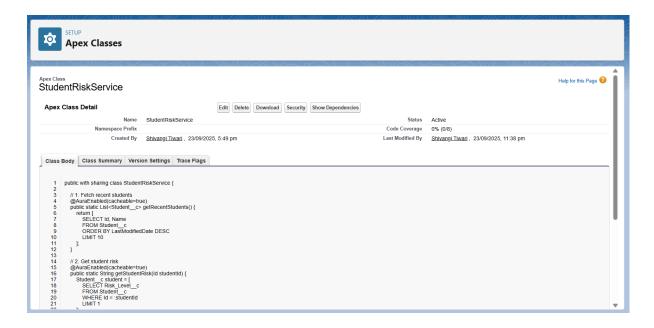
- studentList → list and filter students; click to navigate to record.
- quickRiskCheck & newInterventionForm → utility bar tools for faculty.
- riskAlert \rightarrow provides the list of all students with high risk.





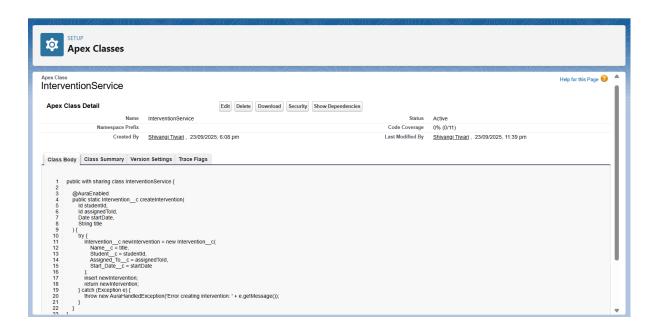
7. Apex with LWC

- · Apex methods used for fetching students, filtering by risk, creating interventions-
 - getRecentStudents (StudentRiskService): Used in quickRiskCheck utility bar component to display recently viewed students for quick access.



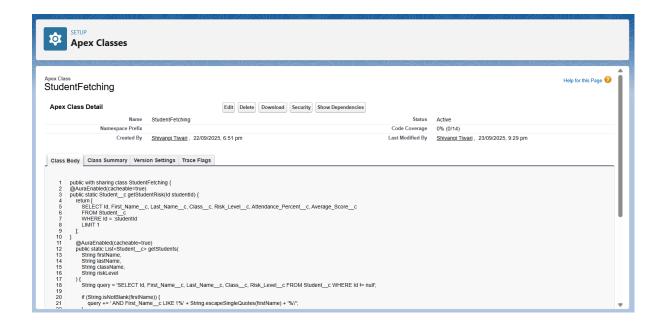
```
myProject > force-app > main > default > lwc > quickRiskCheck > JS quickRiskCheck.js > ...
    import { LightningElement, track, wire } from 'lwc';
    import getRecentStudents from '@salesforce/apex/StudentRiskService.getRecentStudents';
    import getStudentRisk from '@salesforce/apex/StudentRiskService.getStudentRisk';
    export default class QuickRiskCheck extends LightningElement {
```

createIntervention (InterventionService): Used in newInterventionForm to create a
new Intervention record when faculty submits the form.



```
myProject > force-app > main > default > lwc > newInterventionForm > JS newInterventionForm.js > ...
    import { LightningElement, track, wire } from 'lwc';
    import getRecentStudents from '@salesforce/apex/StudentRiskService.getRecentStudents';
    import createIntervention from '@salesforce/apex/InterventionService.createIntervention';
    import getCounselors from '@salesforce/apex/UserService.getCounselors';
    import { NavigationMixin } from 'lightning/navigation';
    import { ShowToastEvent } from 'lightning/platformShowToastEvent';
    export default class NewInterventionForm extends NavigationMixin(LightningElement) {
```

o getStudents(StudentFetching): Used in studentList to fetch student records.



```
nyProject > force-app > main > default > lwc > studentList > JS studentList.js > ...

1  import { LightningElement, track } from 'lwc';

2  import getStudents from '@salesforce/apex/StudentFetching.getStudents';

3

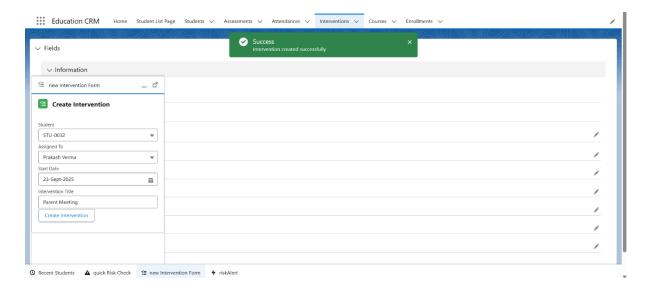
4  export default class StudentList extends LightningElement {
```

Used @AuraEnabled for LWC integration.

8. Events in LWC

- When faculty fills all details in newInterventionForm and clicks "Create Intervention", a custom event is triggered.
- The event calls the createIntervention Apex method to create a new Intervention record in Salesforce.
- After successful creation, the LWC displays a "Intervention created successfully" message and can notify other components to refresh if needed.

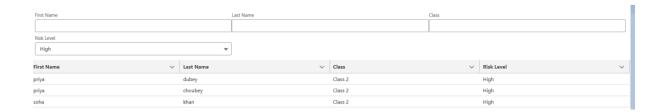
```
handleStudentChange(event) { this.studentId = event.detail.value; }
handleAssignedToChange(event) { this.assignedToId = event.detail.value; }
handleStartDateChange(event) { this.startDate = event.target.value; }
handleTitleChange(event) { this.title = event.target.value; }
createIntervention() {
     if(!this.studentId || !this.assignedToId || !this.startDate || !this.title){
         this.dispatchEvent(new ShowToastEvent({
             message: 'Please fill all required fields',
variant: 'error'
    createIntervention({
         studentId: this.studentId,
         assignedToId: this.assignedToId,
         startDate: this.startDate,
     .then(result => {
         this.dispatchEvent(new ShowToastEvent({
             message: 'Intervention created successfully',
variant: 'success'
         this[NavigationMixin.Navigate]({
              type: 'standard_recordPage
```



9. Wire Adapters

- Used in studentList LWC to automatically fetch student records from Salesforce based on filters.
- uses a @wire Apex method to fetch students automatically based on the selected risk level.

```
@wire(getStudentRisk, { studentId: '$recordId' })
wiredStudent({ error, data }) {
    if (data) {
        this.student = data;
    } else if (error) {
        console.error('Error fetching student risk:', error);
}
```



10. Imperative Apex Calls

• Create Intervention called imperatively when user submits form.

• After the intervention is created, a "Intervention created successfully" toast message is displayed to confirm the action.

```
createIntervention({
    studentId: this.studentId,
    assignedToId: this.assignedToId,
    startDate: this.startDate,
    title: this.title
})
.then(result => {
    this.dispatchEvent(new ShowToastEvent({
        title: 'Success',
        message: 'Intervention created successfully',
```

11. Navigation Service

- After creating an intervention, the Navigation Service (NavigationMixin) opens the relevant Student or Intervention record page.
- Automatically redirects users after actions like creating an intervention, saving time and streamlining tasks.

```
createIntervention({
   studentId: this.studentId,
    assignedToId: this.assignedToId,
    startDate: this.startDate,
   title: this.title
.then(result => {
    this.dispatchEvent(new ShowToastEvent({
        title: 'Success',
        message: 'Intervention created successfully',
variant: 'success'
    this[NavigationMixin.Navigate]({
        type: 'standard__recordPage',
        attributes: {
            recordId: result.Id,
            objectApiName: 'Intervention__c',
            actionName: 'view'
    });
```

