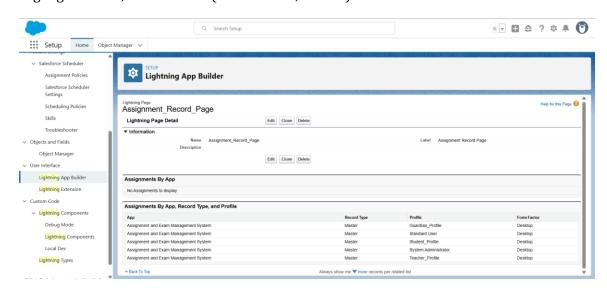
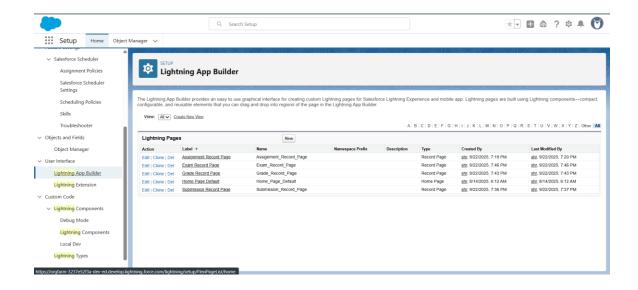
# Phase 6 - 9 Documentation

# **Phase 6: User Interface Development**

# **Lightning App Builder -> Record Pages**

Setup  $\rightarrow$  Lightning App Builder  $\rightarrow$  New  $\rightarrow$  Record Page  $\rightarrow$  Object: Assignment\_c  $\rightarrow$  Add Highlights Panel, Related Lists (Submissions, Grades).





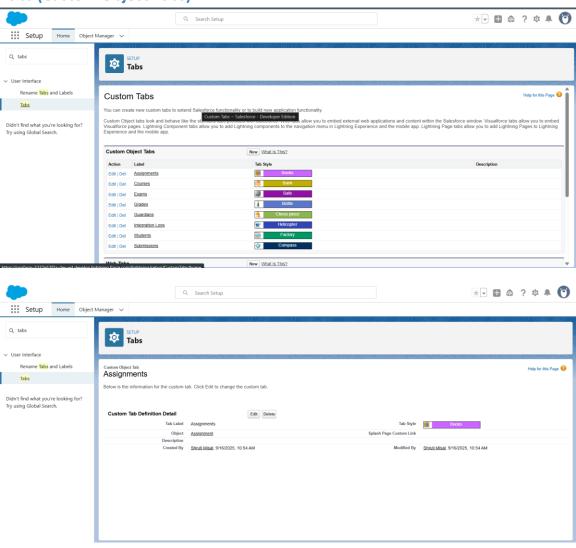
Setup  $\rightarrow$  Lightning App Builder  $\rightarrow$  New  $\rightarrow$  Record Page  $\rightarrow$  Object: Exam\_c  $\rightarrow$  Add Exam Details, Related Assignments.

Setup  $\rightarrow$  Lightning App Builder  $\rightarrow$  New  $\rightarrow$  Record Page  $\rightarrow$  Object: Grade\_c  $\rightarrow$  Show Submission, Marks, Teacher Comments.

Setup  $\rightarrow$  Lightning App Builder  $\rightarrow$  New  $\rightarrow$  Record Page  $\rightarrow$  Object: Submission\_c  $\rightarrow$  Show Submission details and related Grade.

Setup  $\rightarrow$  Lightning App Builder  $\rightarrow$  New  $\rightarrow$  Home Page  $\rightarrow$  Default  $\rightarrow$  Add Recent Items, Reports, List View.

# **Tabs (Custom Object Tabs)**



```
Setup \rightarrow Tabs \rightarrow New \rightarrow Custom Object Tab \rightarrow Exam
```

Setup  $\rightarrow$  Tabs  $\rightarrow$  New  $\rightarrow$  Custom Object Tab  $\rightarrow$  Courses

Setup  $\rightarrow$  Tabs  $\rightarrow$  New  $\rightarrow$  Custom Object Tab  $\rightarrow$  Grades

Setup  $\rightarrow$  Tabs  $\rightarrow$  New  $\rightarrow$  Custom Object Tab  $\rightarrow$  Guardians

Setup  $\rightarrow$  Tabs  $\rightarrow$  New  $\rightarrow$  Custom Object Tab  $\rightarrow$  Integration Logs

Setup  $\rightarrow$  Tabs  $\rightarrow$  New  $\rightarrow$  Custom Object Tab  $\rightarrow$  Students

## **LWC (Lightning Web Components)**

VS Code  $\rightarrow$  Create LWC  $\rightarrow$  assignmentSummary  $\rightarrow$  Deploy to Salesforce  $\rightarrow$  Add to Assignment Record Page.

```
assignmentSummary.html X Js assignmentSummary.js
                                                              force-app > main > default > lwc > assignmentSummary > ♦ assignmentSummary.html > ♦ template > ♦ lightning-card > ♦

✓ force-app\main\default

  UpdateContactPhone.cls
                                                                                              ■ UpdateContactPhone.cls-meta.xml
                                                                                                                Status: {assignment.Status_c}
Due Date: {assignment.Due_Date_c}
 > flows

<

√ lwc

✓ assignmentSummary

                                                                                             No assignments found.
     JS assignmentSummary.js

√ lastmileapp

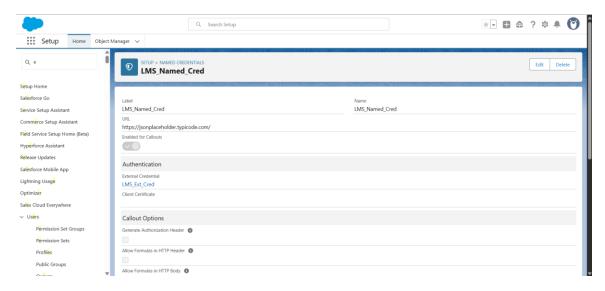
                                                     force-app > main > default > lwc > assignmentSummary > 35 assignmentSummary > 55 assignmentSummary = 1 import { LightningElement, api, wire } from 'lwc'; = 2 import { getRelatedListRecords } from 'lightning/uiRelatedListApi'; = 3 import { refreshApex } from 'gesalesforce/apex';
                                                               export default class AssignmentSummary extends LightningElement []
    @api recordId; // Student Id
UpdatingContactException.cls-meta.xml
                                                                     error;
wiredAssignmentsResult;
■ WeeklyPerformanceScheduler.cls-meta.xml
                                                                     // Listen but state the connected callback() {
    this.template.addEventListener('submissionupdated', () => {
        this.handlesubmissionUpdated();
    }
                                                                           parentRecordId: '$recordId',
relatedListId: 'Submissions_r', // API name of related list from Student_c
∨ lastmileapp
  lastmileapp.html
                                                                     wiredAssignments(result) {
   this.wiredAssignmentsResult = result;
   const { data, error } = result;
```

```
### Decomposition of the content of
```

# **Phase 7: Integration & External Access**

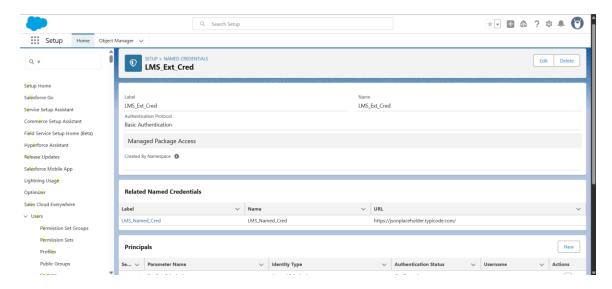
#### **Named Credentials**

 $Setup \rightarrow Named\ Credentials \rightarrow New \rightarrow Label: LMS\_Named\_Cred \rightarrow URL: \\ https://jsonplaceholder.typicode.com/ \rightarrow External\ Credential: LMS\_Ext\_Cred \rightarrow Save. \\$ 



#### **External Credentials**

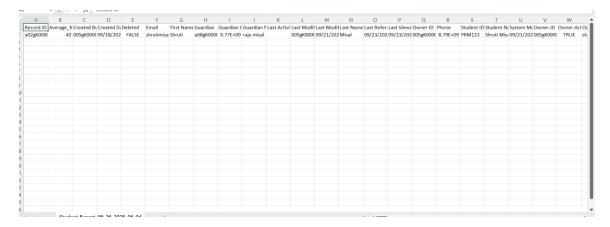
Setup  $\rightarrow$  External Credentials  $\rightarrow$  New  $\rightarrow$  Label: LMS\_Ext\_Cred  $\rightarrow$  Authentication Protocol: Basic Authentication  $\rightarrow$  Save.



# **Phase 8: Data Management & Deployment**

#### **Data Loader**

Open Data Loader  $\rightarrow$  Login with Salesforce  $\rightarrow$  Select Insert  $\rightarrow$  Object: Student\_c  $\rightarrow$  Choose CSV file  $\rightarrow$  Map fields  $\rightarrow$  Finish.

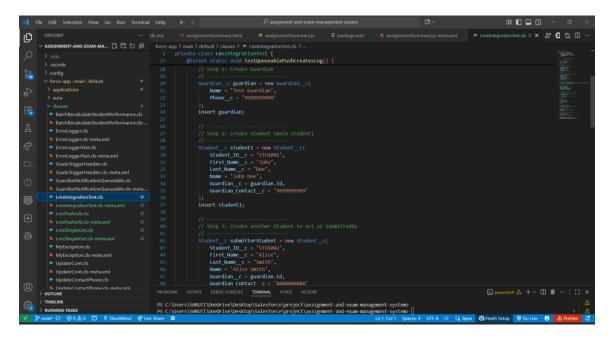


# **Data Export & Backup**

 $Setup \rightarrow Data \ Export \rightarrow Schedule \ Export \rightarrow Select \ Student\_c \rightarrow Export \ to \ CSV \rightarrow Download.$ 

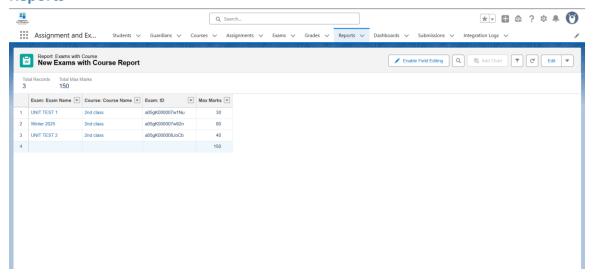
#### **VS Code & SFDX**

Install VS Code  $\rightarrow$  Install Salesforce Extension Pack  $\rightarrow$  Connect to Org (sfdx force:auth:web:login)  $\rightarrow$  Push/Deploy metadata.



Phase 9: Reporting, Dashboards & Security Review

#### **Reports**

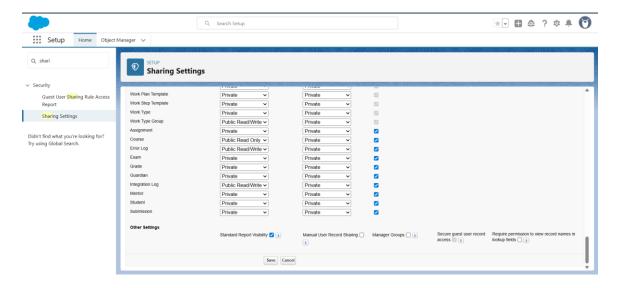


Reports  $\rightarrow$  New Report  $\rightarrow$  Object: Exam\_c  $\rightarrow$  Report: New Exams with Course Report

Reports $\rightarrow$ New Report $\rightarrow$ Object: Course_c $\rightarrow$ Report: New Courses with Student Report
Screenshot:
$Reports \rightarrow New\ Report \rightarrow Object: Grade\_c \rightarrow Report: New\ Grades\ with\ Assignment\ Report$
Screenshot:
$Reports \rightarrow New\ Report \rightarrow Object: Submission\_c \rightarrow Report: New\ Submissions\ Report$
Screenshot:

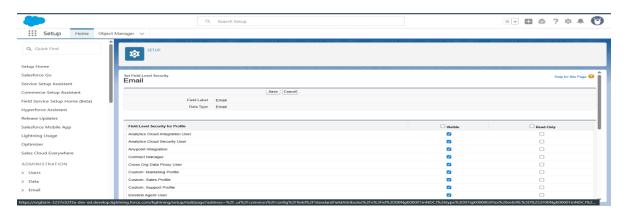
## **Sharing Settings (OWD)**

Setup  $\rightarrow$  Sharing Settings  $\rightarrow$  Edit OWD  $\rightarrow$  Define object-level access for Assignment, Submission, Grade, etc.



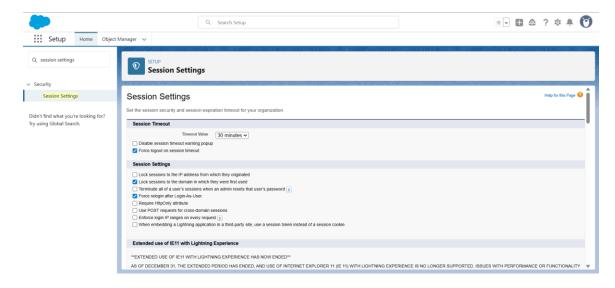
# **Field Level Security**

 $Setup \rightarrow Object\ Manager \rightarrow [Select\ Object] \rightarrow Fields\ \&\ Relationships \rightarrow Select\ Field \rightarrow Set$   $Field-Level\ Security.$ 



## **Session Settings**

Setup  $\rightarrow$  Session Settings  $\rightarrow$  Session Timeout = 30 minutes  $\rightarrow$  Save.



# **Login IP Ranges**

Setup  $\rightarrow$  Profiles  $\rightarrow$  [Select Profile]  $\rightarrow$  Login IP Ranges  $\rightarrow$  No restrictions added.

## **Audit Trail**

Setup → View Setup Audit Trail → Download CSV if required.

