

Project Report Template

INTRODUCTION: -

1.1 Overview

Administrator should be able to create all base data including Semester, Candidate, Course and Lecturer. Lecturer should have the ability to create Internal Result. Dean, who is one of the Lecturer, should be the only one with ability to update Internal Result, Re-evaluation can be initialized by candidate for all Internal Result. Now only dean can update the marks after re-evaluation.

1.2 Purpose: -

It aims to produce areal time knowledge of the salesforce and how can we build a app using salesforce in this project we build a Candidate results card application for educational institutions, which would be useful for the staff's to reduce time and track the performance of the students with ease. It is helpful to have large number of data maintained under one platform.

2.Problem Definition and Design Thinking: -

2.1. Empathy Map



Empathy map

Use this framework to develop a deep, shared understanding and empathy for other people. An empathy map helps describe the aspects of a user's experience, needs and pain points, to quickly understand your users' experience and mindset.

[Share template feedback](#)



Need some inspiration?
See a Richland version of this template to adapt to your needs.
[Open example](#)



Build empathy

The information you add here should be representative of the observations and research you've done about your users.



2.2 Ideation and Brainstorming map Screenshot:



Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

- 10 minutes to prepare
- 1 hour to collaborate
- 2-8 people recommended

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➔

Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

10 minutes

- Team gathering**
Confirm who should participate in the session and send an invite. Share relevant information or present it aloud.
- Set the goal**
Topic about the problem you'll be focusing on solving in the brainstorming session.
- Learn how to use the facilitation tools**
Use the Facilitation Superpowers to run a happy and productive session.

[Open article](#) ➔

1

Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

5 minutes



Key rules of brainstorming

To run a smooth and productive session

- Stay in topics.
- Encourage wild ideas.
- Defer judgment.
- Listen to others.
- Go for volume.
- If possible, go visual.

Brainstorming is a creative technique used to generate a large number of ideas quickly. To ensure a smooth and productive session its important to follow some key rules.



Need some inspiration?
See a list of ideas and all the templates to discover your next.

[Open examples](#) ➔

2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes

TIP

You can select a sticky note and hit the pencil button to start editing it.

Person 1

Develop an AI powered chatbot that can assist customers with their queries in real time.

Person 2

Create a mobile app that gamifies learning to encourage student to study more.

Person 3

Develop a software program that can automate repetitive tasks in an office environment, freeing up employee time.

Person 4

Build a website that aggregates reviews and ratings for different products, making it easier for consumers to make informed purchasing decisions.

Person 5

Create a social media platform specifically for freelancers and entrepreneurs, allowing them to connect and collaborate with like minded individuals.

Person 6

Develop an AI powered tool that can analyze financial data to predict stock prices and trends.

Person 7

Create an online course that teaches people how to cook healthy meals on a budget.

Person 8

Develop a platform that connects volunteers with local charities and organizations, making it easier for people to get involved in their communities.

3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

20 minutes

TIP

Add additional tags to sticky notes to make it easier to find, delete, organize, and archive ideas as they relate to your needs.

Innovative business ideas for a specific industry or niche.

Ways to improve productivity and efficiency in the workplace.

Strategies to improve mental health and wellbeing.

Ideas for eco-friendly or sustainable initiatives.

Ideas for community service projects or charity events

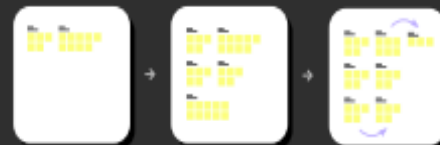
Solutions to social and political issues in the community or country

Unique team building activities or exercises.

Creative ways to promote diversity, equity and inclusion in the workplace or society.

Ways to improve customer experience and satisfaction.

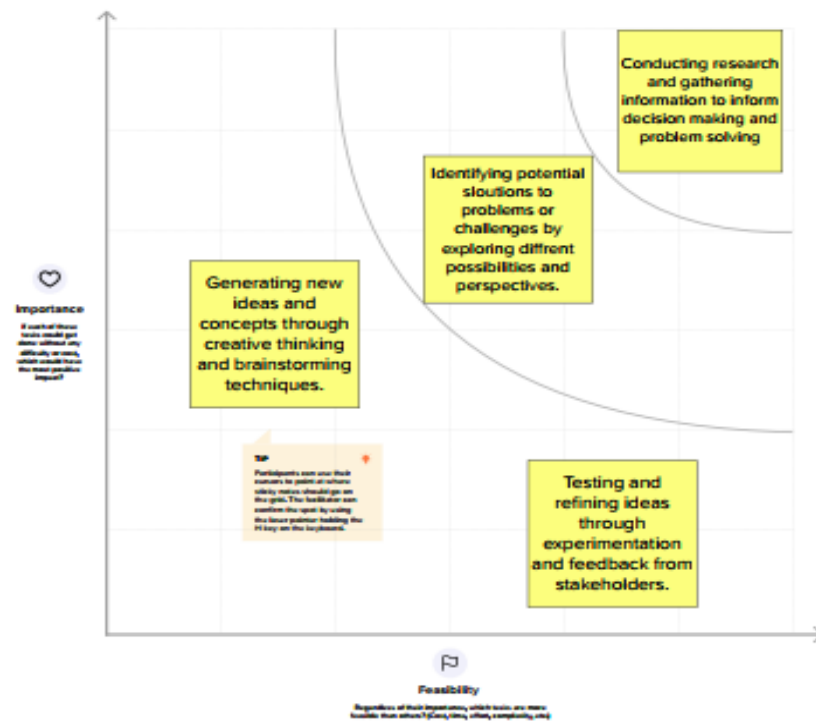
Creative marketing campaigns for a product or service.



Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

20 minutes



After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

Quick add-ons

- Share the mural**
Share a direct link to the mural with stakeholders to keep them in the loop about the outcomes of the exercise.
- Export the mural**
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save to your drive.

Keep moving forward

- 
Strategy blueprint
 Define the components of a new idea or strategy.
[Open the template →](#)
 - 
Customer experience journey map
 Understand customer needs, evaluations, and attitudes for an experience.
[Open the template →](#)
 - 
Strengths, weaknesses, opportunities & threats
 Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.
[Open the template →](#)

[Return to complete results](#)

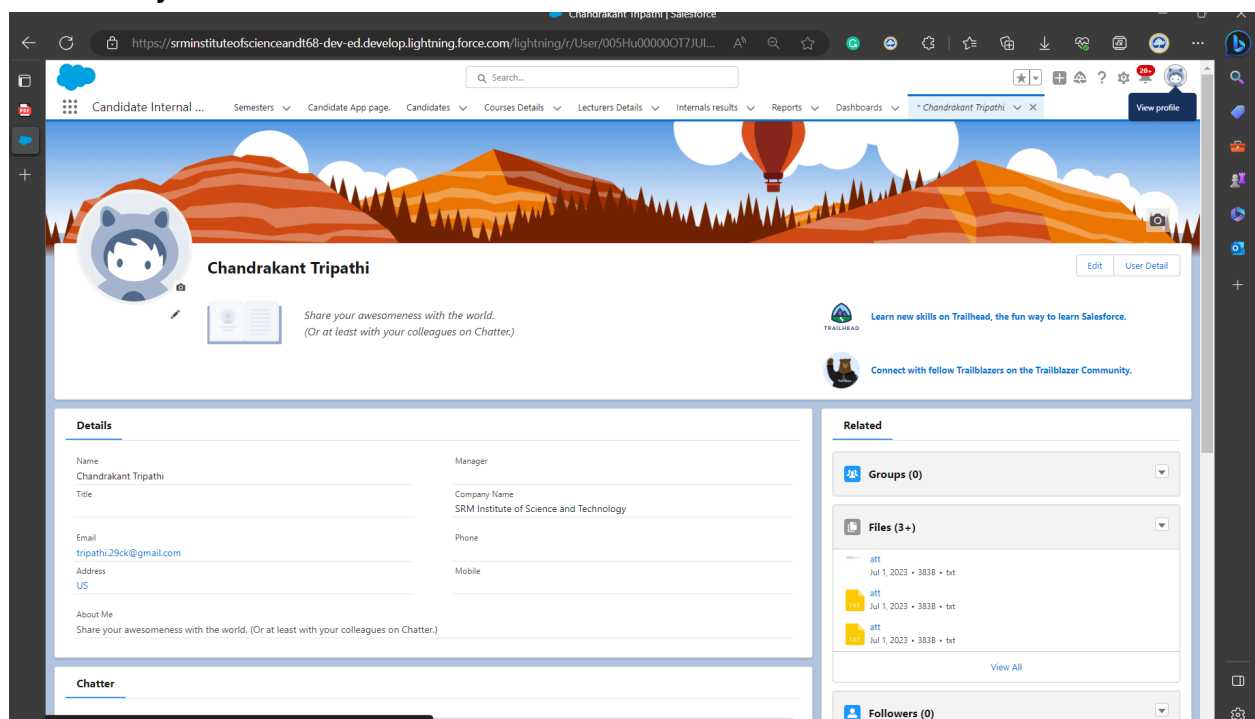
3.RESULT: -

3.1 Data Model:

OBJECT NAME	FIELDS IN THE OBJECT
SEMESTER	Field Label: <ul style="list-style-type: none"> semester Name

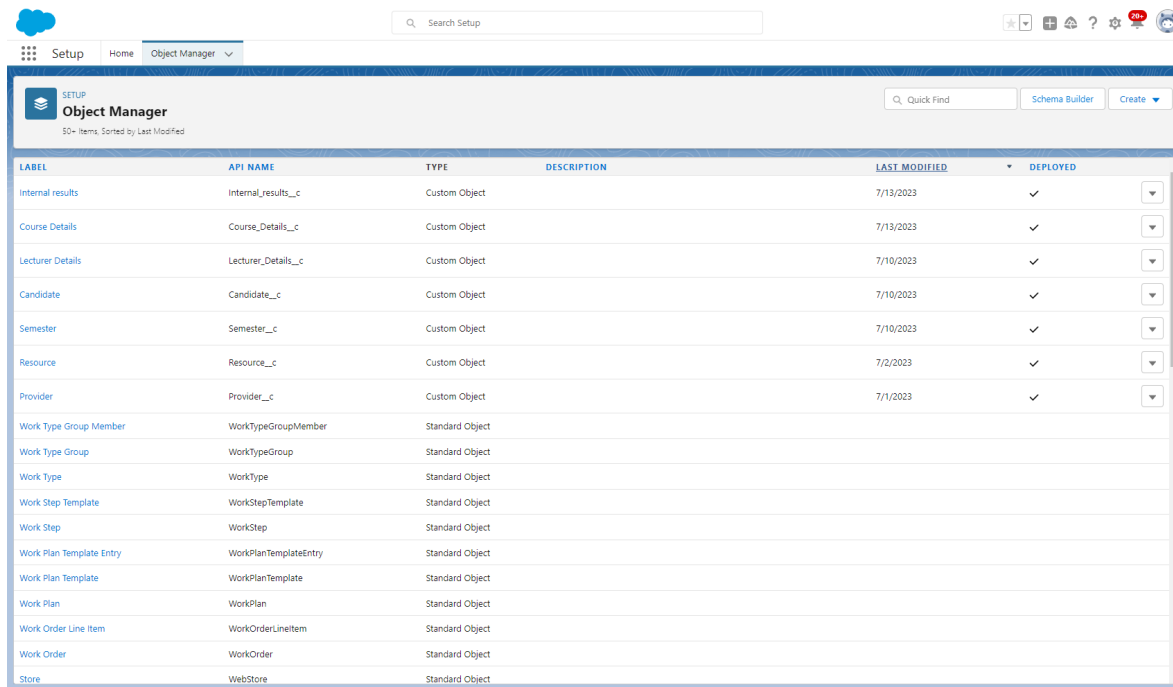
	<ul style="list-style-type: none"> ○ Course (Lookup) Data Type :Text
CANDIDATE	Field Label: <ul style="list-style-type: none"> ○ Candidate Name ○ Candidate Roll Number ○ Semester Name (lookup semester)
LECTURER DETAILS	Lecturer Name Lecturer role Course (Lookup) Data Type :Text
COURSE DETAILS	Course Name Duration(years)
INTERNAL RESULT	Candidate (lookup) Candidate Roll No Course (lookup) Marks

3.2 Activity and Screenshot: - CREATE A DEVELOPER ORG CREATION



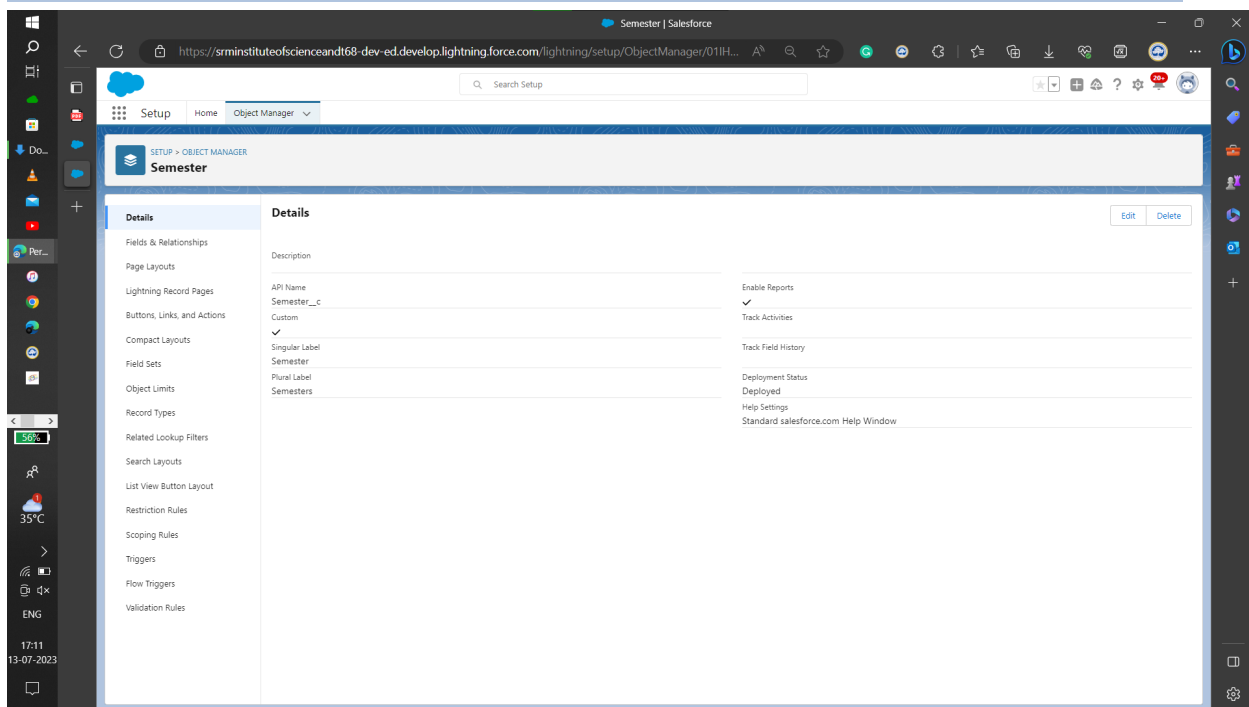
We have created an developer account for salesforce account salesforce is your

customer success platform. Our mail id and name or given to get developer account. To
Create an object



The screenshot shows the Salesforce Object Manager interface. At the top, there's a search bar and navigation tabs for Setup, Home, and Object Manager. Below the navigation bar, the 'Object Manager' section is active, displaying a list of objects. The table has columns for LABEL, API NAME, TYPE, DESCRIPTION, LAST MODIFIED, and DEPLOYED. The objects listed include 'Internal results', 'Course Details', 'Lecturer Details', 'Candidate', 'Semester', 'Resource', 'Provider', and several 'Work Type' related objects. The 'Semester' object is highlighted in blue.

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Internal results	Internal_results__c	Custom Object		7/13/2023	✓
Course Details	Course_Details__c	Custom Object		7/13/2023	✓
Lecturer Details	Lecturer_Details__c	Custom Object		7/10/2023	✓
Candidate	Candidate__c	Custom Object		7/10/2023	✓
Semester	Semester__c	Custom Object		7/10/2023	✓
Resource	Resource__c	Custom Object		7/2/2023	✓
Provider	Provider__c	Custom Object		7/1/2023	✓
Work Type Group Member	WorkTypeGroupMember	Standard Object			
Work Type Group	WorkTypeGroup	Standard Object			
Work Type	WorkType	Standard Object			
Work Step Template	WorkStepTemplate	Standard Object			
Work Step	WorkStep	Standard Object			
Work Plan Template Entry	WorkPlanTemplateEntry	Standard Object			
Work Plan Template	WorkPlanTemplate	Standard Object			
Work Plan	WorkPlan	Standard Object			
Work Order Line Item	WorkOrderLineItem	Standard Object			
Work Order	WorkOrder	Standard Object			
Store	WebStore	Standard Object			



The screenshot shows the Salesforce Object Manager interface with the 'Semester' object selected. The left sidebar contains a navigation menu with options like 'Details', 'Fields & Relationships', 'Page Layouts', 'Lightning Record Pages', 'Buttons, Links, and Actions', 'Compact Layouts', 'Field Sets', 'Object Limits', 'Record Types', 'Related Lookup Filters', 'Search Layouts', 'List View Button Layout', 'Restriction Rules', 'Scoping Rules', 'Triggers', 'Flow Triggers', and 'Validation Rules'. The main area displays the 'Details' for the 'Semester' object, including its API Name, Custom status, Singular Label, Plural Label, and various settings like 'Enable Reports', 'Track Activities', 'Track Field History', 'Deployment Status', 'Help Settings', and 'Standard salesforce.com Help Window'.

Semester | Salesforce

https://srmminstituteofscienceandit68-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01H...

Object Manager

Semester

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Triggers

Flow Triggers

Validation Rules

Details

Description

API Name
Semester__c

Custom

Singular Label
Semester

Plural Label
Semesters

Enable Reports
✓

Track Activities

Track Field History

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

Candidate | Salesforce

https://srmstituteofscienceandit68-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01H...

Setup Home Object Manager

SETUP > OBJECT MANAGER

Candidate

Details

- Fields & Relationships
- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters
- Search Layouts
- List View Button Layout
- Restriction Rules
- Scoping Rules
- Triggers
- Flow Triggers
- Validation Rules

Details

Description

API Name	Enable Reports
Candidate__c	<input checked="" type="checkbox"/>
Custom	Track Activities
<input checked="" type="checkbox"/>	
Singular Label	Track Field History
Candidate	
Plural Label	Deployment Status
Candidates	Deployed
	Help Settings
	Standard salesforce.com Help Window

Edit Delete

Lecturer Details | Salesforce

https://srmstituteofscienceandit68-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01H...

Setup Home Object Manager

SETUP > OBJECT MANAGER

Lecturer Details

Details

- Fields & Relationships
- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters
- Search Layouts
- List View Button Layout
- Restriction Rules
- Scoping Rules
- Triggers
- Flow Triggers
- Validation Rules

Details

Description

API Name	Enable Reports
Lecturer_Details__c	<input checked="" type="checkbox"/>
Custom	Track Activities
<input checked="" type="checkbox"/>	
Singular Label	Track Field History
Lecturer Details	
Plural Label	Deployment Status
Lecturers Details	Deployed
	Help Settings
	Standard salesforce.com Help Window

Edit Delete

Course Details | Salesforce

https://srmstituteofscienceandit68-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01H...

Setup Home Object Manager

SETUP > OBJECT MANAGER

Course Details

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Triggers

Flow Triggers

Validation Rules

Details

Description

API Name
Course_Details_c

Custom

✓

Singular Label
Course Details

Plural Label
Courses Details

Enable Reports
✓

Track Activities

Track Field History

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

Edit Delete

Internal results | Salesforce

https://srmstituteofscienceandit68-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01H...

Setup Home Object Manager

SETUP > OBJECT MANAGER

Internal results

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Triggers

Flow Triggers

Validation Rules

Details

Description

API Name
Internal_results_c

Custom

✓

Singular Label
Internal results

Plural Label
Internals results

Enable Reports
✓

Track Activities

Track Field History

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

Edit Delete

Creation of fields:-

Internal results | Salesforce

https://srm.instituteofscienceandit68-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01IH...

Setup Home Object Manager

SETUP > OBJECT MANAGER

Internal results

Details

Fields & Relationships 8 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Candidate	Candidate_c	Lookup(Candidate)		✓
Candidate Roll Number	Candidate_Roll_Number_c	Formula (Text)		
Course	Course_c	Lookup(Course Details)		✓
Created By	CreatedById	Lookup(User)		
Internal results Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Marks	Marks_c	Number(4, 2)		
Owner	OwnerId	Lookup(User, Group)		✓

Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Search Layouts
List View Button Layout
Restriction Rules
Scoping Rules
Triggers
Flow Triggers
Validation Rules

Course Details | Salesforce

https://srm.instituteofscienceandit68-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01IH...

Setup Home Object Manager

SETUP > OBJECT MANAGER

Course Details

Details

Fields & Relationships 5 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Course Name	Name	Text(80)		✓
Created By	CreatedById	Lookup(User)		
Duration	Duration_c	Number(1, 2)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User, Group)		✓

Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
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Related Lookup Filters
Search Layouts
List View Button Layout
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Scoping Rules
Triggers
Flow Triggers
Validation Rules

Lecturer Details | Salesforce

https://srmstituteofscienceandit68-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01H...

Setup Home Object Manager

SETUP > OBJECT MANAGER

Lecturer Details

Details

Fields & Relationships 7 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Course	Course_c	Lookup(Course Details)		✓
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Lecturer Details Name	Name	Text(80)		✓
Lecturer Name	Lecturer_Name__c	Text(80)		
Lecturer Role	Lecturer_Role__c	Text(40)		
Owner	OwnerId	Lookup(User Group)		✓

Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
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List View Button Layout
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Scoping Rules
Triggers
Flow Triggers
Validation Rules

Candidate | Salesforce

https://srmstituteofscienceandit68-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01H...

Setup Home Object Manager

SETUP > OBJECT MANAGER

Candidate

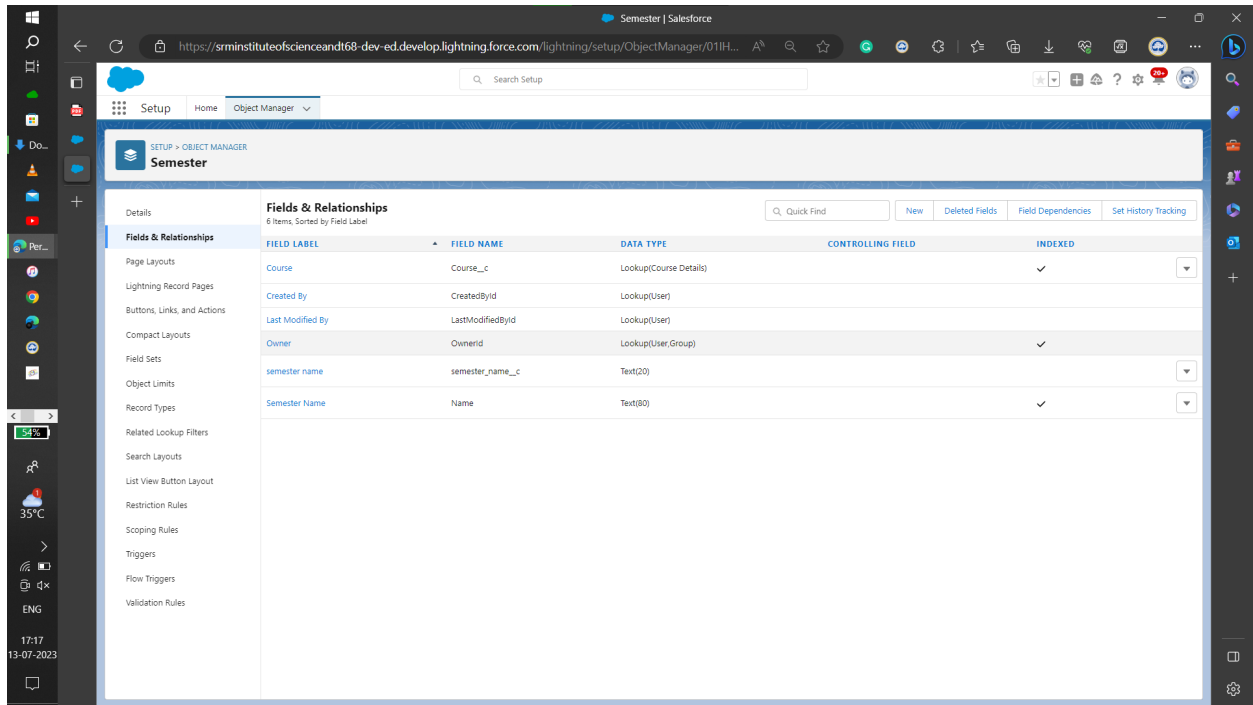
Details

Fields & Relationships 7 Items, Sorted by Field Label

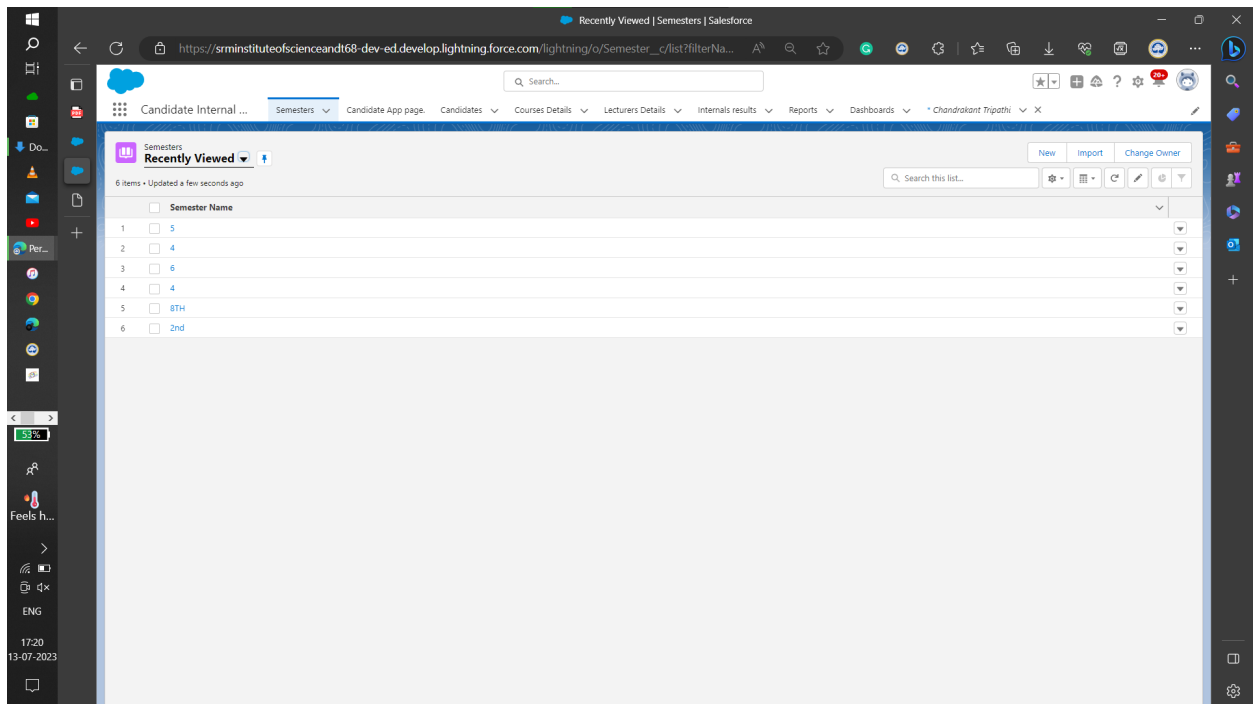
Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Candidate ID	Candidate_ID__c	Text(20)		
Candidate Name	Name	Text(80)		✓
Candidate Roll Number	Candidate_Roll_Number__c	Auto Number		
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User Group)		✓
Semester Name	Semester_Name__c	Lookup(Semester)		✓

Page Layouts
Lightning Record Pages
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List View Button Layout
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Scoping Rules
Triggers
Flow Triggers
Validation Rules



Lightning App Creation the candidate Internal Result card app



Creation of user

Users | Salesforce

https://srmstituteofscienceandit68-dev-ed.develop.lightning.force.com/lightning/setup/ManageUsers/page?...

Setup Home Object Manager

Search Setup

Users

User: Class Teacher

Permission Set Assignments (0) | Permission Set Assignments Activation Services (0) | Permission Set Group Assignments (0) | Permission Set License Assignments (0) | Personal Groups (0) | Public Group Memberships (0) | Queue Memberships (0) | Teams (0) | Memberships in the Role Hierarchy (0) | Groups (0) | Third-Party Account Links (0) | Installed Mobile Apps (0) | Authentication Settings for External Systems (0) | Login History (0) | User Provisioning Accounts (0)

User Detail

Name: Class Teacher

Alias: cteac

Email: ttripathi284@gmail.com

Username: ttripathi284@gmail.com

Nickname: User16292409831224302581

Title:

Company:

Department:

Division:

Address:

Time Zone: (GMT-07:00) Pacific Daylight Time (America/Los_Angeles)

Locale: English (United States)

Language: English

Delegated Approver:

Manager:

Receive Approval Request Emails: Only if I am an approver

Federation ID:

App Registration: One-Time Password Authenticator:

App Registration: Salesforce Authenticator:

Security Key (U2F or WebAuthn):

Lightning Login:

Temporary Verification Code (Expires in 1 to 24 Hours):

Role: Salesforce

User License: Standard User

Profile: Active

Marketing User:

Offline User:

Knowledge User:

Flow User:

Service Cloud User:

Site.com Contributor User:

Site.com Publisher User:

WDC User:

Mobile Push Registrations:

Did.com User Type:

Accessibility Mode (Classic Only):

Debug Mode:

High-Contrast Palette on Charts:

Load Lightning Pages While Scrolling:

Salesforce CRM Content User:

Receive Salesforce CRM Content Email Alerts:

Receive Salesforce CRM Content Alerts as Daily Digest:

Make Setup My Default Landing Page:

Allow Forecasting:

Call Center:

Phone:

Extension:

Fax:

Mobile:

Email Encoding: Unicode (UTF-8)

Creation of records and Reports :-

Reports | Salesforce

https://srmstituteofscienceandit68-dev-ed.develop.lightning.force.com/lightning/o/Report/home?queryScop...

Candidate Internal ... Semesters Candidate App page Candidates Courses Details Lecturers Details Internals results Reports Dashboards Chandrakant Tripathi

Search recent reports...

New Report New Folder

Recent

2 items

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Created by Me	Sample Flow Report: Screen Flows	Which flows run, what's the status of each interview, and how long do users take to complete the screens?	Public Reports	Automated Process	7/1/2023, 10:10 AM	
Private Reports	Candidate Internal Result Report		Private Reports	Chandrakant Tripathi	7/13/2023, 2:48 AM	

Public Reports

All Reports

FOLDERS

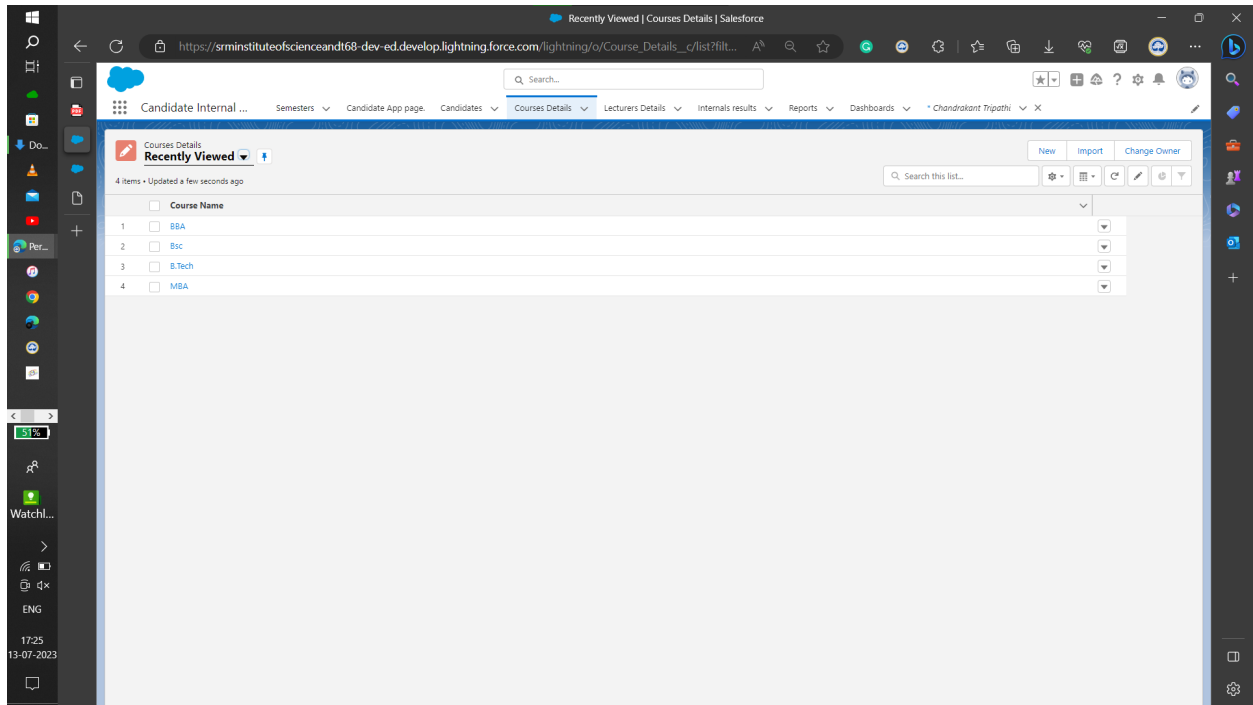
All Folders

Created by Me

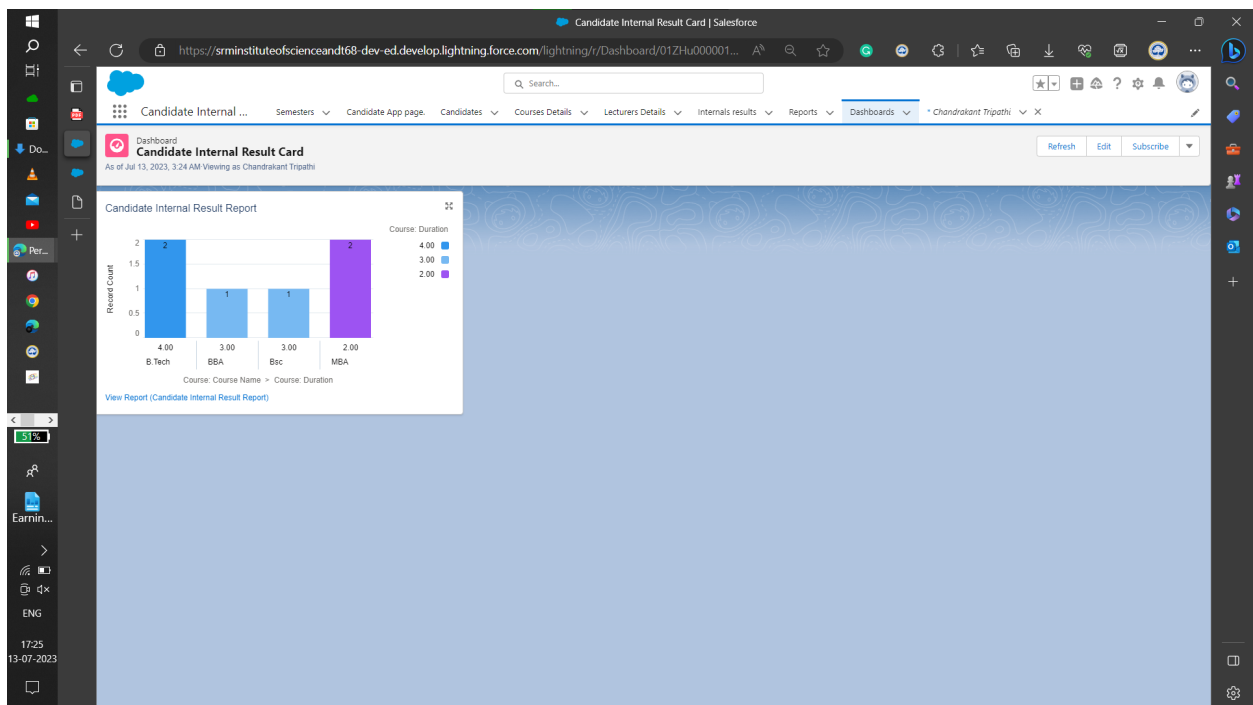
Shared with Me

FAVORITES

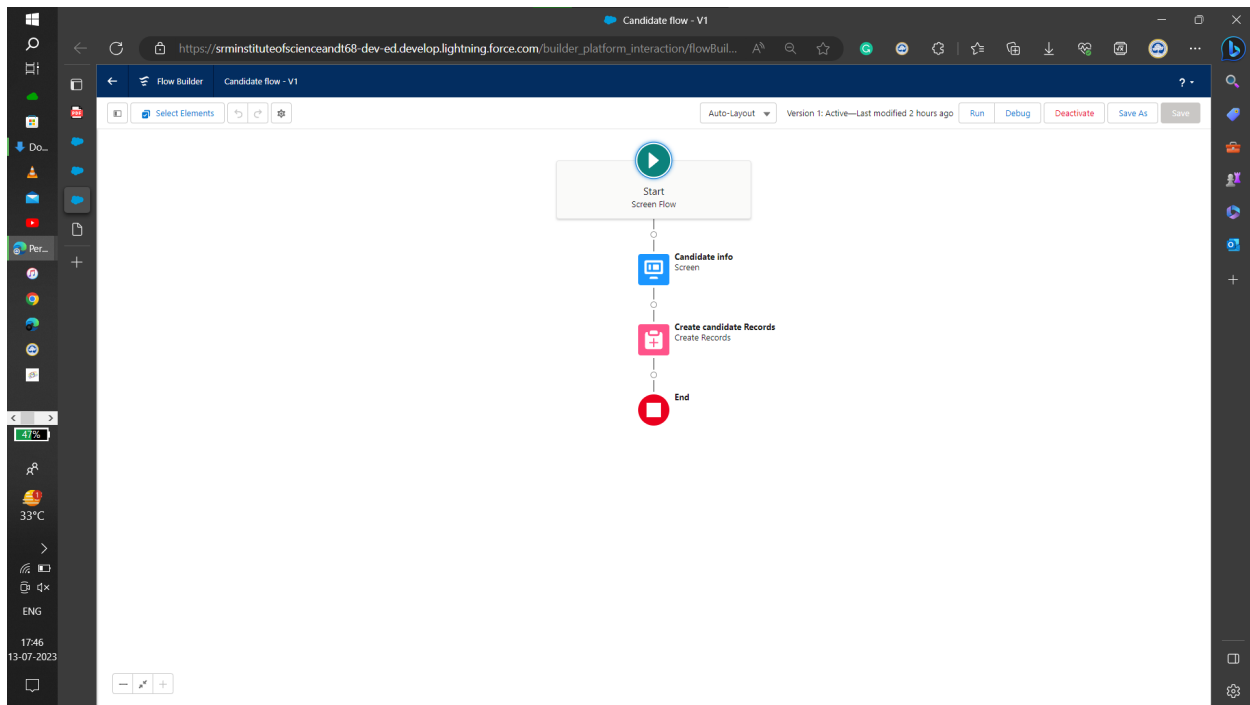
All Favorites



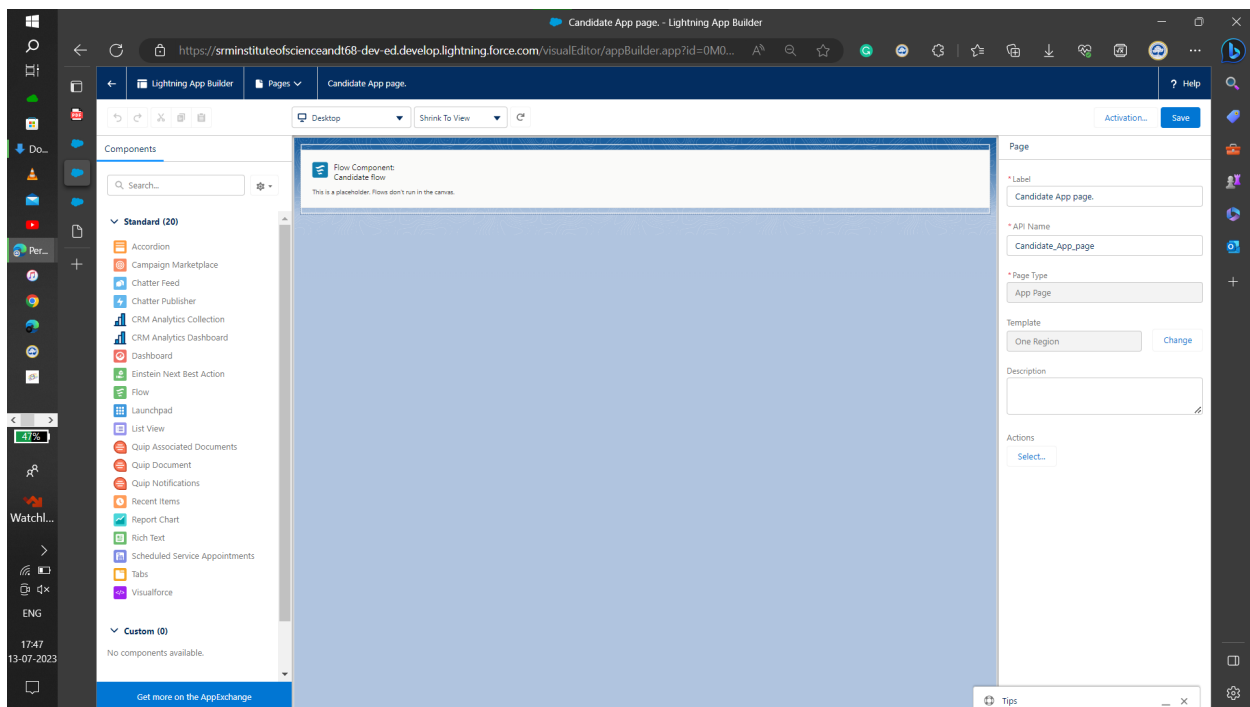
Creation of Dashboard



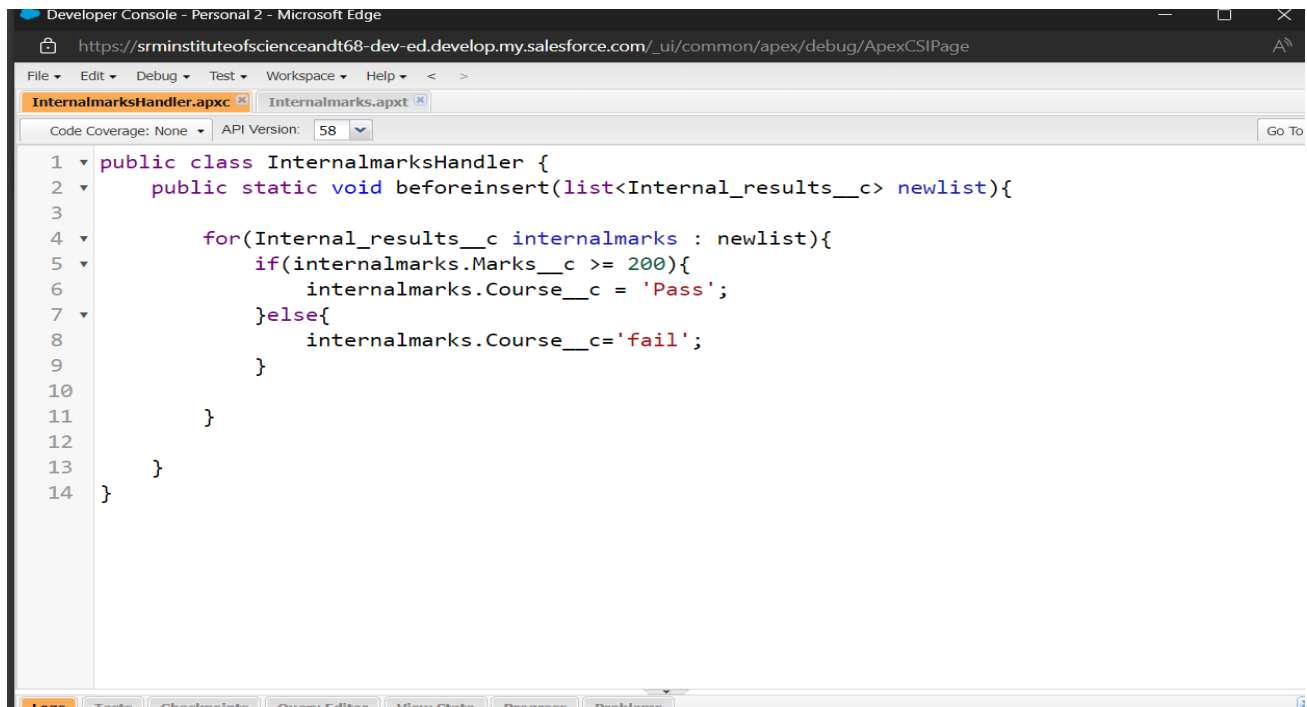
Screen Flow :-



Screenshot Lightning App Builder :-

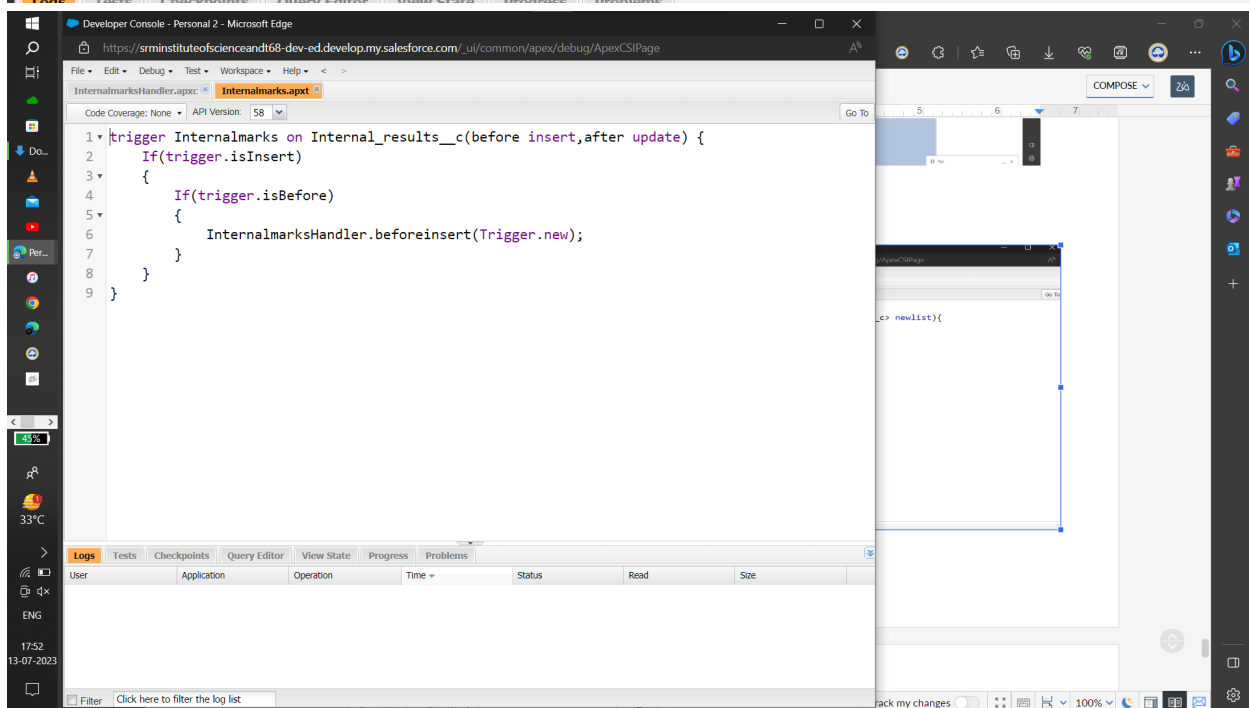


Creation of Apex Class & Apex Trigger :-



The screenshot shows the Salesforce Developer Console with the Apex code for the `InternalmarksHandler` class. The code is as follows:

```
1 public class InternalmarksHandler {
2     public static void beforeinsert(list<Internal_results__c> newList){
3
4         for(Internal_results__c internalmarks : newList){
5             if(internalmarks.Marks__c >= 200){
6                 internalmarks.Course__c = 'Pass';
7             }else{
8                 internalmarks.Course__c='fail';
9             }
10        }
11    }
12 }
13 }
14 }
```



The screenshot shows the Salesforce Developer Console with the Apex code for a trigger. The code is as follows:

```
1 trigger Internalmarks on Internal_results__c(before insert,after update) {
2     If(trigger.isInsert)
3     {
4         If(trigger.isBefore)
5         {
6             InternalmarksHandler.beforeinsert(trigger.new);
7         }
8     }
9 }
```

4.Trailhead Profile public URL:-

Chandrakant Tripathi :-<https://trailblazer.me/id/ctripathira2011053010028>

5.ADVANTAGES & DISADVANTAGES:

Advantages It helps teachers keep track of student performance used to study there progress throughout the course or degree. Implementing CRM in result tracking with internal marks will help you streamline this process. CRM systems provide real-time

numbers, graphs and data that may be useful in decision making. It also enables as to perform a search by keyword, sign documents digitally and send documents digitally

Disadvantages

- 1. Software subscription or purchase fees**
- 2. Premium upgrades, eg add-on marketing or reporting features**
- 3. Customization**
- 4. IT resources needed**
- 5. Hardware or software requirements**
- 6. Staff training and upskilling**

APPLICATION:

Implementing CRM in result tracking can be used in all educational institutions to track candidate results. It can be used both in schools and colleges. In schools, colleges even in universities, it would be very useful in monitoring students performance and records.

CONCLUSION:

Educational institutions deal with lots of test paper and student evaluation.

It is a painstaking process for teachers to evaluate and keep track of student test and assessment.

So we have come up with a solution known as implementing CRM in result tracking with Internal Marks.

We have customized objects, fields and created Candidate Result card app in that app create reports and customized dashboard showing marks of student as vertical bars.

By this app we can show the students result in graphical representation which is easier to manage their results.

FUTURE SCOPE:

OMNICHANNEL DASHBOARDS:-

Deeply integrates with social media, websites, cloud telephony, and other software to bring all queries to a unified dashboard.

AUTOMATIONS AI-powered bots, automated feedback or information form collection, and canned responses save time for your staff