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# **PROJECT REPORT**

**ON**

**Implementing CRM For Result Tracking of a Candidate  
with Internal Marks - (DEV)**

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**Branch: Mechanical Engineering**

**College: Lakireddy Bali Reddy College of Engineering**

# IMPLEMENTING CRM FOR RESULT TRACKING OF A CANDIDATE WITH INTERNAL MARKS

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## 1 INTRODUCTION

### 1.1 Overview

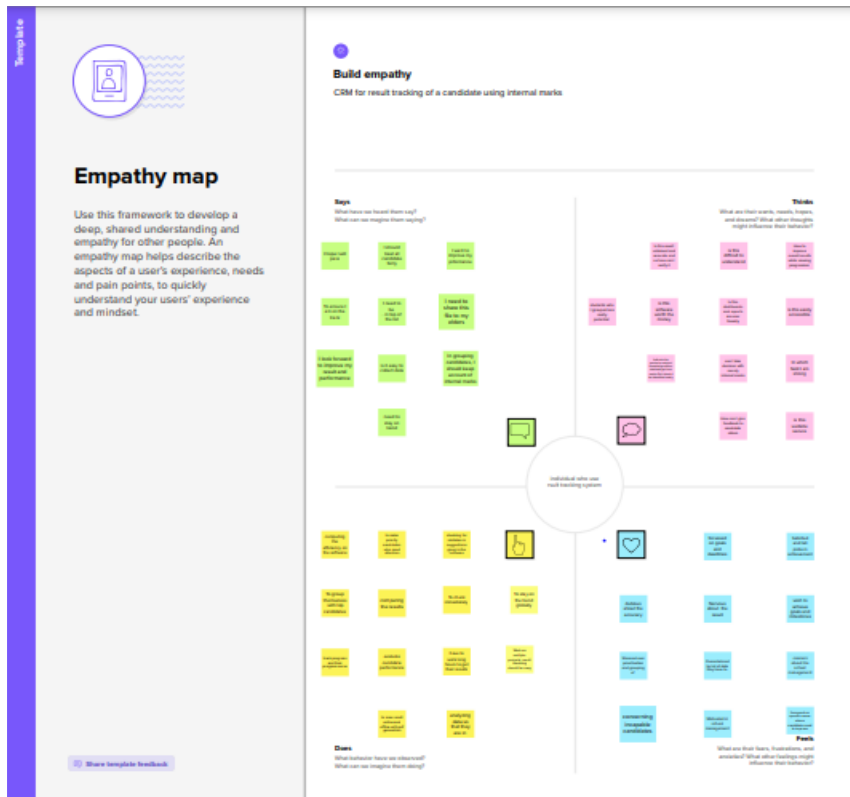
Candidate Result Tracking is a salesforce software designed to assist educational institutions in managing their students' results. The software streamlines the entire result management process, from creating exam schedules to publishing results. It enables the efficient handling of large volumes of student data, including personal information, enrolment details, and academic performance.

### 1.2 Purpose

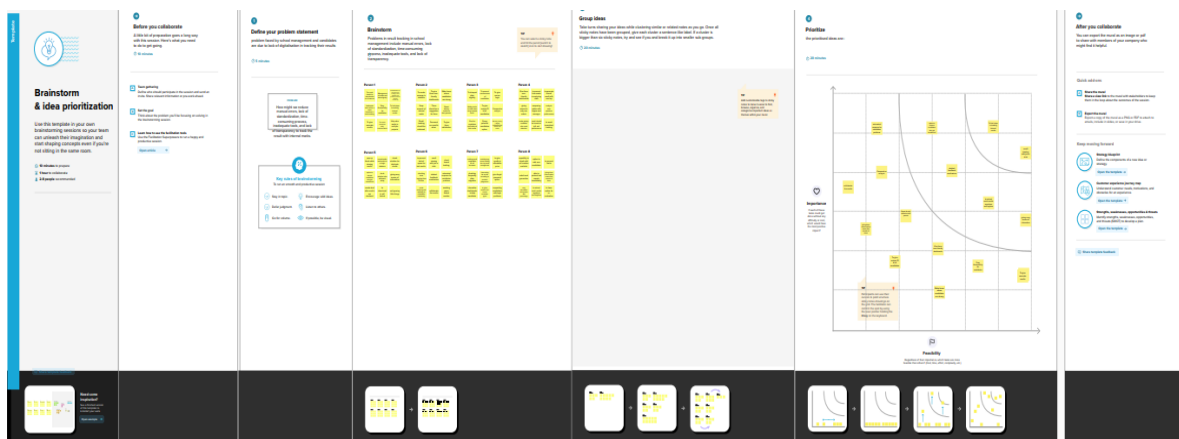
The purpose of this software is to provide data backup in case of unforeseen circumstances, protect data from unauthorized access and cyber-attacks, ensure data retention, control data access, classify data, and comply with all legal procedures.

## 2 Problem Definition & Design Thinking

### 2.1 Empathy Map



### 2.2 Ideation & Brainstorming Map

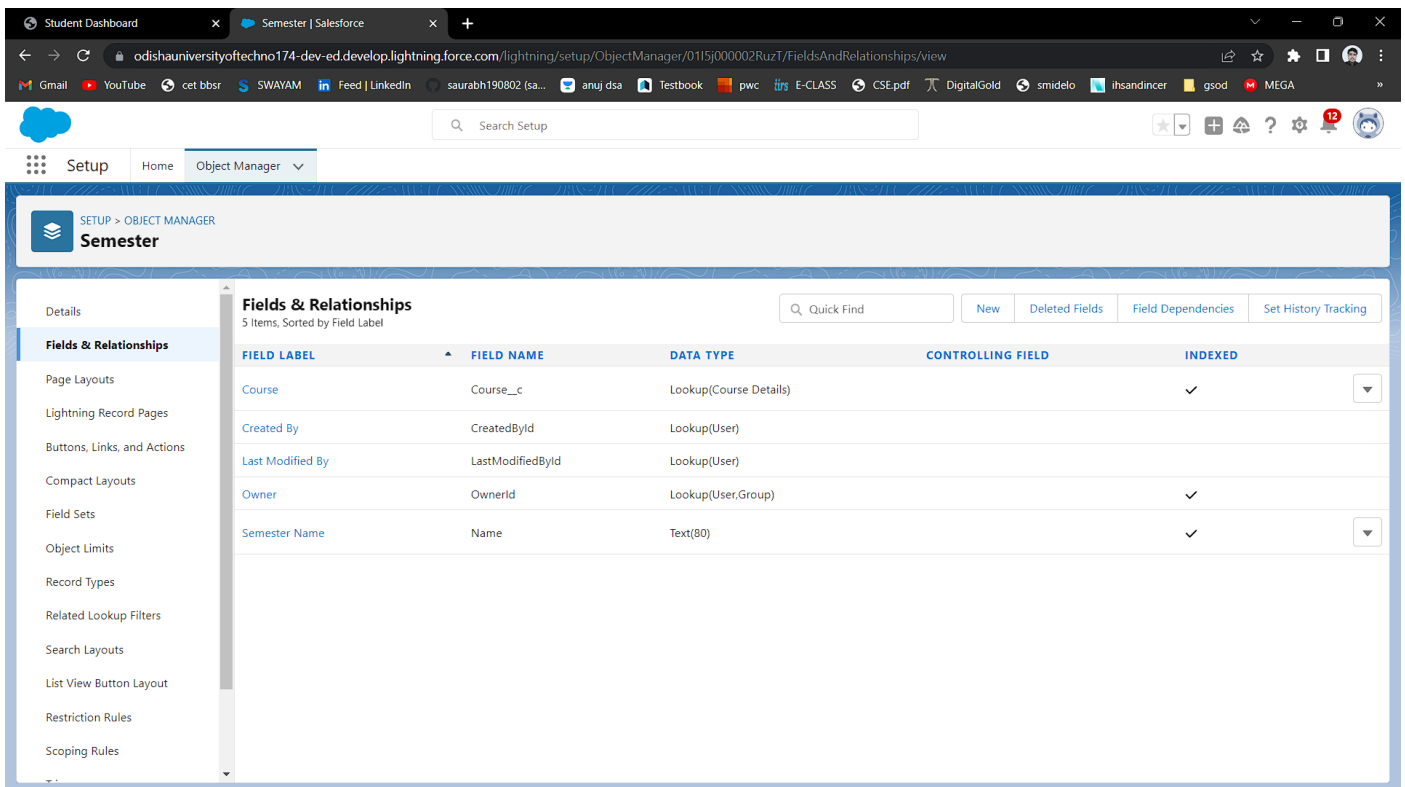


## 3 RESULTS

### 3.1 Data Model:

Object Name	Field Name	Data type
<b>Semester</b>	Semester Name	<u>Text</u> (Standard field)
	Course	<u>Lookup</u> (Course Details)
<b>Candidate</b>	Candidate Name	<u>Text</u> (Standard field)
	Candidate Roll Number	Auto Number
	Semester Name	<u>Lookup</u> (Semester)
<b>Lecturer Details</b>	Lecturer Name	<u>Text</u> (Standard field)
	Lecturer Role	Text
	Course	<u>Lookup</u> (Course)
<b>Course Details</b>	Course Name	<u>Text</u> (Standard field)
	Duration (Years)	Number
<b>Internal results</b>	Candidate	Lookup (candidate)
	Candidate Roll Number	Formula
	Course	<u>Lookup</u> (Course)
	Marks	Number

### 3.2 Activity & Screenshot:



The screenshot shows the Salesforce Object Manager interface for the 'Semester' object. The 'Fields & Relationships' section is active, displaying a list of fields. The table below represents the data shown in the screenshot:

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)		
Owner	OwnerId	Lookup(User.Group)		✓
Semester Name	Name	Text(80)		✓

All the fields for the Semester object are created.

Student Dashboard | Candidate | Salesforce

odishauniversityoftechno174-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/015j000002Ruzx/FieldsAndRelationships/view

Search Setup

Setup | Home | Object Manager

SETUP > OBJECT MANAGER  
**Candidate**

Details

**Fields & Relationships**  
6 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 Name	Name	Text(80)		✓
Candidate Roll Number	Candidate_Roll_Number__c	Auto Number		
Created By	CreatedBy	Lookup(User)		
Last Modified By	LastModifiedBy	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Semester Name	Semester_Name__c	Lookup(Semester)		✓

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

**All the fields for Candidate Object are created.**

Student Dashboard | Course Details | Salesforce

odishauniversityoftechno174-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/015j000002Rv1s/FieldsAndRelationships/view

Search Setup

Setup | Home | Object Manager

SETUP > OBJECT MANAGER  
**Course Details**

Details

**Fields & Relationships**  
5 Items, Sorted by Field Label

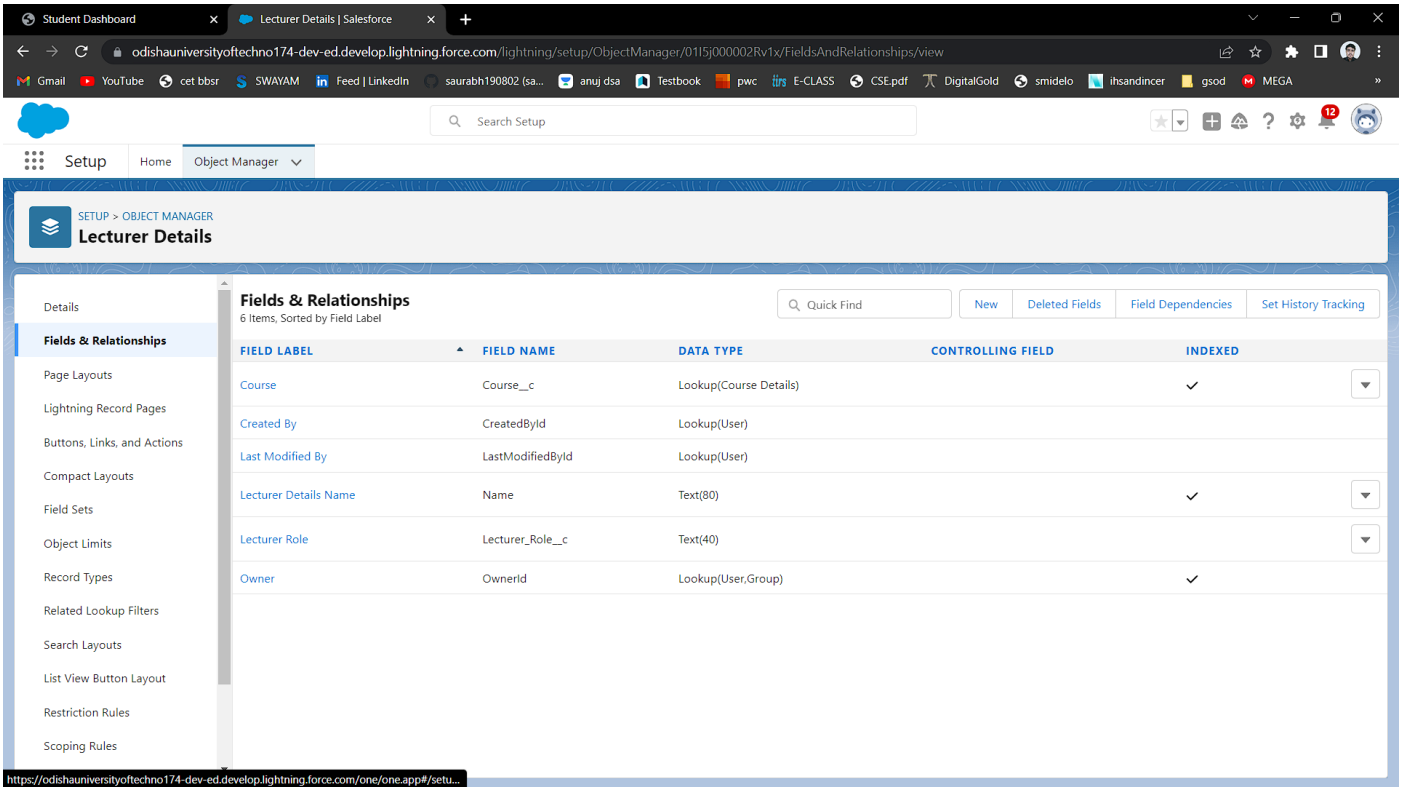
Quick Find | New | Deleted Fields | Field Dependencies | Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Course Details Name	Name	Text(80)		✓
Created By	CreatedBy	Lookup(User)		
Duration	Duration__c	Number(18, 0)		
Last Modified By	LastModifiedBy	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓

Page Layouts  
Lightning Record Pages  
Buttons, Links, and Actions  
Compact Layouts  
Field Sets  
Object Limits  
Record Types  
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Search Layouts  
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Scoping Rules

https://odishauniversityoftechno174-dev-ed.develop.lightning.force.com/one/one.app#/setup/ObjectManager/015j000002Rv1s/FieldsAndRelationships/view

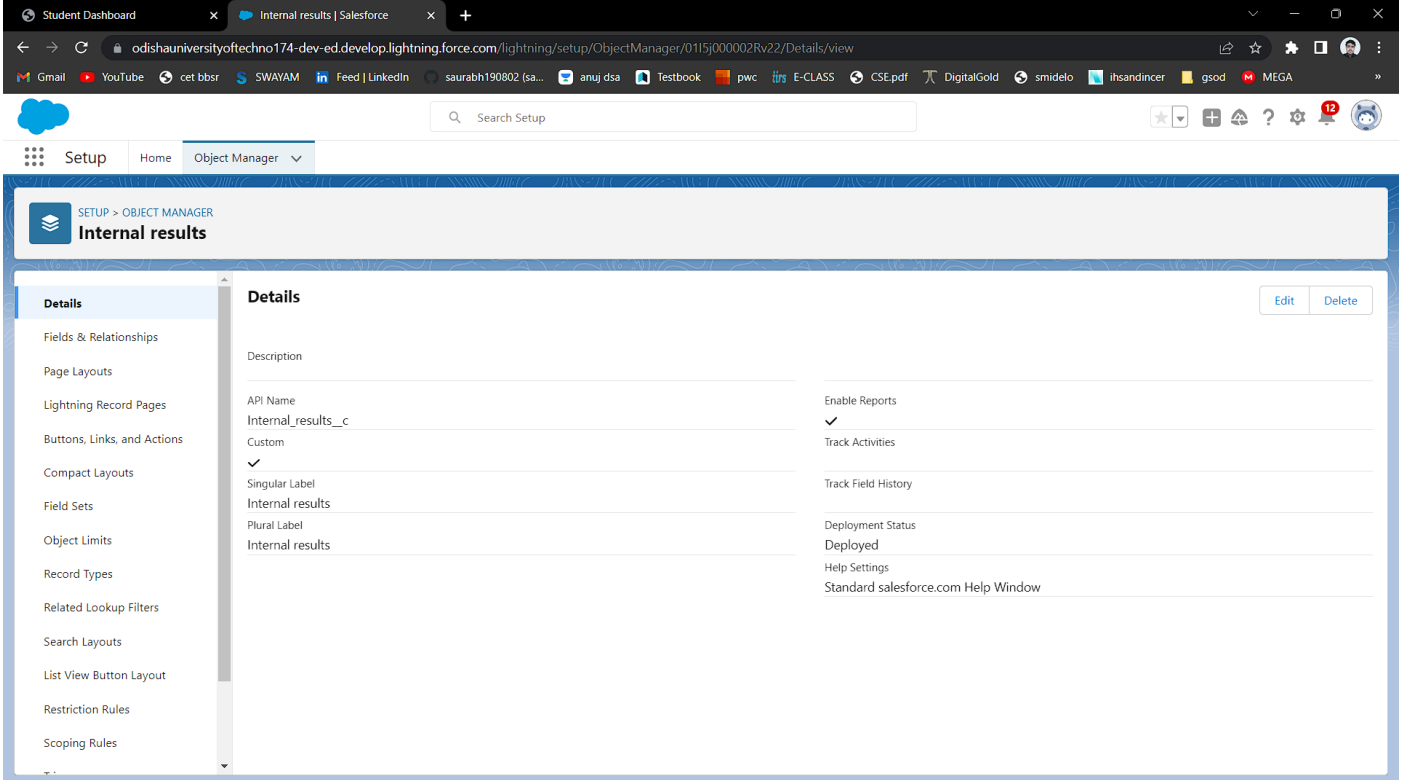
**All the fields for Course Details Object are created.**



The screenshot shows the Salesforce Object Manager interface for the 'Lecturer Details' object. The left sidebar lists various configuration options, with 'Fields & Relationships' selected. The main area displays a table of fields and their relationships.

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 Role	Lecturer_Role__c	Text(40)		
Owner	OwnerId	Lookup(User,Group)		✓

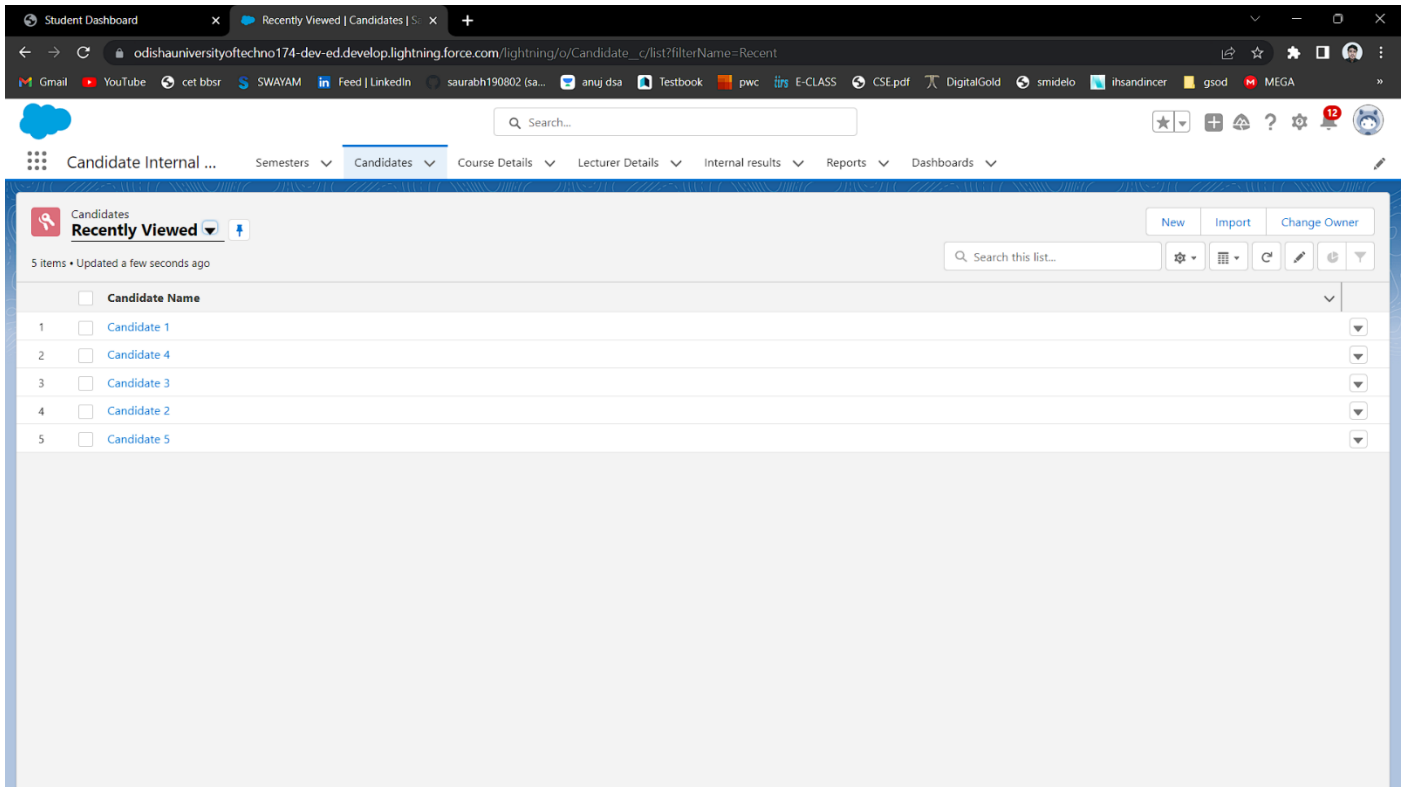
**All the fields for Lecturer Details Object are created.**



The screenshot shows the Salesforce Object Manager interface for the 'Internal results' object. The left sidebar lists various configuration options, with 'Details' selected. The main area displays the object's details, including its description, API name, and various settings.

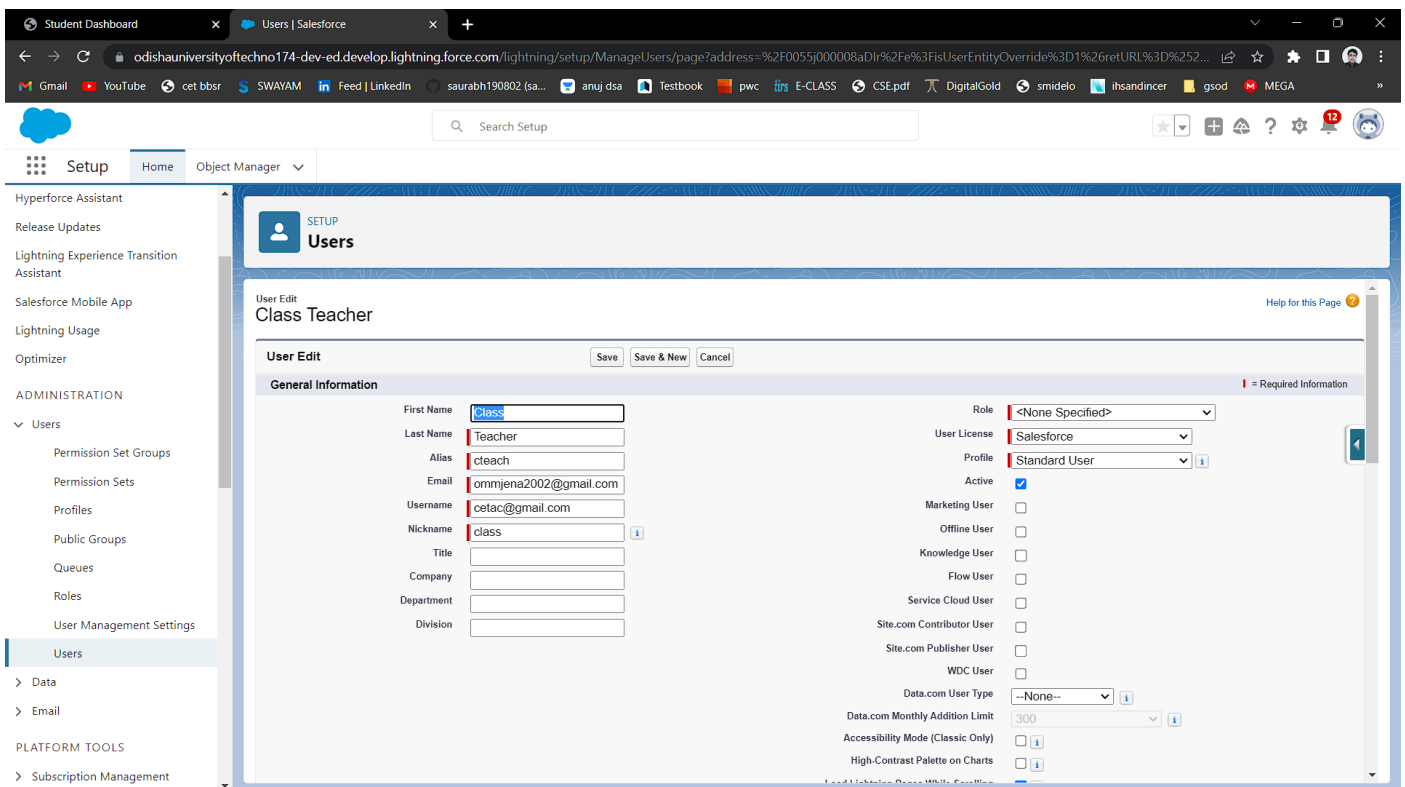
Details	Settings
Description	Enable Reports
API Name	Internal_results__c
Custom	Track Activities
Singular Label	Track Field History
Internal results	Deployment Status
Plural Label	Deployed
Internal results	Help Settings
	Standard salesforce.com Help Window

**All the fields for Internal Results Object are created.**



The screenshot shows the Salesforce Lightning interface. The top navigation bar includes the 'Candidate Internal ...' tab. The main content area displays a list of candidates under the 'Recently Viewed' section. The list contains 5 items, each with a checkbox and a name (Candidate 1, Candidate 4, Candidate 3, Candidate 2, Candidate 5). The interface includes a search bar, navigation tabs, and a sidebar with various menu items.

The lightning app is created according to the procedure.



The screenshot shows the Salesforce Lightning interface for the 'Users' setup page. The 'Class Teacher' user is being edited. The 'General Information' section shows fields for First Name, Last Name, Alias, Email, Username, Nickname, Title, Company, Department, and Division. The 'Role' is set to 'Salesforce' and the 'Profile' is 'Standard User'. The 'Active' checkbox is checked.

The Class Teacher user was created and Salesforce user profile is assigned to him.

Student Dashboard | Report Builder | Salesforce

odishauniversityoftechno174-dev-ed.develop.lightning.force.com/lightning/r/Report/0005j000008Ud5IEAC/edit?queryScope=userFolders

Search...

Candidate Internal ... Semesters Candidates Course Details Lecturer Details Internal results Reports Dashboards

REPORT Internal Results with Candidate Details Internal results with Candidate

Previewing a limited number of records. Run the report to see everything. Update Preview Automatically

Candidate Roll Number	Internal results: Internal results Name	Candidate: Candidate Name	Course	Marks
CAD-006 (1)	Subject 1	Candidate 1	B Tech	100
CAD-007 (1)	Subject 1	Candidate 2	B Tech	99
CAD-008 (1)	Subject 1	Candidate 3	B Tech	98
CAD-009 (1)	Subject 1	Candidate 4	B Tech	80
CAD-010 (1)	Subject 1	Candidate 5	B Tech	90

Row Counts Detail Rows Subtotals Grand Total Conditional Formatting

The Report is created.

Student Dashboard | Internal Results Analysis of Subject 1

odishauniversityoftechno174-dev-ed.develop.lightning.force.com/lightning/r/Dashboard/01Z5j000000gm8IEAA/view?queryScope=userFolders

Search...

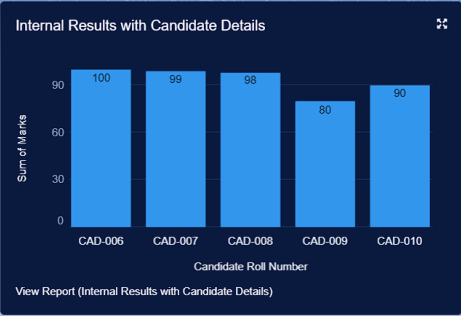
Candidate Internal ... Semesters Candidates Course Details Lecturer Details Internal results Reports Dashboards

Dashboard Internal Results Analysis of Subject 1

As of 28-Jul-2023, 7:31 pm Viewing as Saurabh Satapathy

Refresh Edit Subscribe

Internal Results with Candidate Details



View Report (Internal Results with Candidate Details)

Vertical Bar Chart is added to the dashboard.



## 4 Trailhead Profile Public URL:

4.1 Link to My Profile: <https://www.salesforce.com/trailblazer/ssatapathy41>

## 5 ADVANTAGES

- Automates result processing, saving time and resources.
- Reduces the likelihood of manual errors, increasing accuracy.
- Provides a secure environment for managing and storing student data.
- Enables performance analysis to identify areas where students require additional support.
- Facilitates communication between students, parents, and faculty, improving the overall quality of education.

## DISADVANTAGES

- Proper training and expertise are required to use the software effectively.
- Implementation of result management software can be costly.
- The software can be complex, and technical issues such as system crashes or software bugs can cause delays or errors in result processing.

## 6 APPLICATIONS

- The result tracking salesforce software can help identify areas where students require additional support, improving the overall quality of education.
- It facilitates easy communication between teachers, parents, and students, allowing parents to access their child's results, attendance, and other information online.
- The software enables student feedback and evaluation, allowing teachers and administrators to assess student satisfaction and identify areas for improvement.

## 7 CONCLUSIONS

- Report card generation is a feature of a school result management system that enables the automatic generation of report cards for students. A report card typically includes information about a student's academic performance, attendance, and behaviour during a specific academic period, such as a semester or a year.

## 8 FUTURE SCOPES

- In healthcare, result management software can assist healthcare professionals in managing patient data, test results, and medical records. It can also improve the speed and accuracy of diagnosis and treatment.
- In government, result management software can ensure transparency, accuracy, and accessibility of public data such as election results or survey data.
- In business, result management software can help companies manage customer feedback, sales data, and performance metrics.
- In sports, result management software can assist coaches and trainers in tracking athlete progress, making data-driven decisions, and improving performance.
- In research, result management software can help researchers organize and analyse data more efficiently, improve accuracy, and accelerate the research process.