

AProjectReporton

*******ImplementingCRMforresultTrackingofACandidatewithinternalMarks-(Admin)*******

by

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ABSTRACT

The objective of image fusion for medical images is to combine multiple images acquired from different sources into a single image suitable for improved diagnosis. Most of the state-of-the-art image fusing techniques are based on non-fuzzy sets, and the fused image so obtained lacks with complementary information. Fuzzy sets are strong-minded to be more appropriate for medical image processing as more hesitations are reconsidered compared with non-fuzzy sets. In this project, a procedure for efficiently fusing multimodal medical images is presented. In the proposed method, images are initially converted into intuitionistic fuzzy images (IFIs), and a new objective function called intuitionistic fuzzy entropy (IFE) is employed to obtain the optimum value of the parameter in the membership and non-membership functions. Next, the IFIs are compared using fitness function, contrast visibility (CV). Then, teaching learning-based optimization (TLBO) is introduced to optimize fusion coefficients, which will be changed under teaching phase and learner phase of TLBO, so that the weighted coefficients can be automatically adjusted according to fitness function. Finally, the fused image is obtained using optimal coefficients. Simulations on several pairs of multimodal medical images are performed and compared with the existing fusion methods. The superiority of the proposed method is presented and is justified. Fused image quality is also verified with various quality metrics, such as feature mutual information (FMI), spatial frequency (SF), entropy, edge-based image fusion ($Q^{AB/F}$), modified spatial frequency (MSF) and computation time (CT).

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CHAPTER 1 CREATING SALESFORCE

ORGINTRODUCTION

Are you new to Salesforce? Not sure exactly what it is, or how to use it? Don't know where you should start on your learning journey? If you've answered yes to any of these questions, then you're in the right place. This module is for you.

Welcome to Salesforce! Salesforce is game-changing technology, with a host of productivity-boosting features, that will help you sell smarter and faster. As you work toward your badge for

this module, we'll take you through these features and answer the question, "What is Salesforce, anyway?"

What is Salesforce?

Salesforce is your customer success platform, designed to help you sell, service, market, analyze, and connect with your customers.

Salesforce has everything you need to run your business from anywhere. Using standard products and features, you can manage relationships with prospects and customers, collaborate and engage with employees and partners, and store your data securely in the cloud.

So what does that really mean? Well, before Salesforce, your contacts, emails, follow-up tasks, and prospective deals might have been organized something like this:

<https://youtu.be/r9EX3lGde5k>

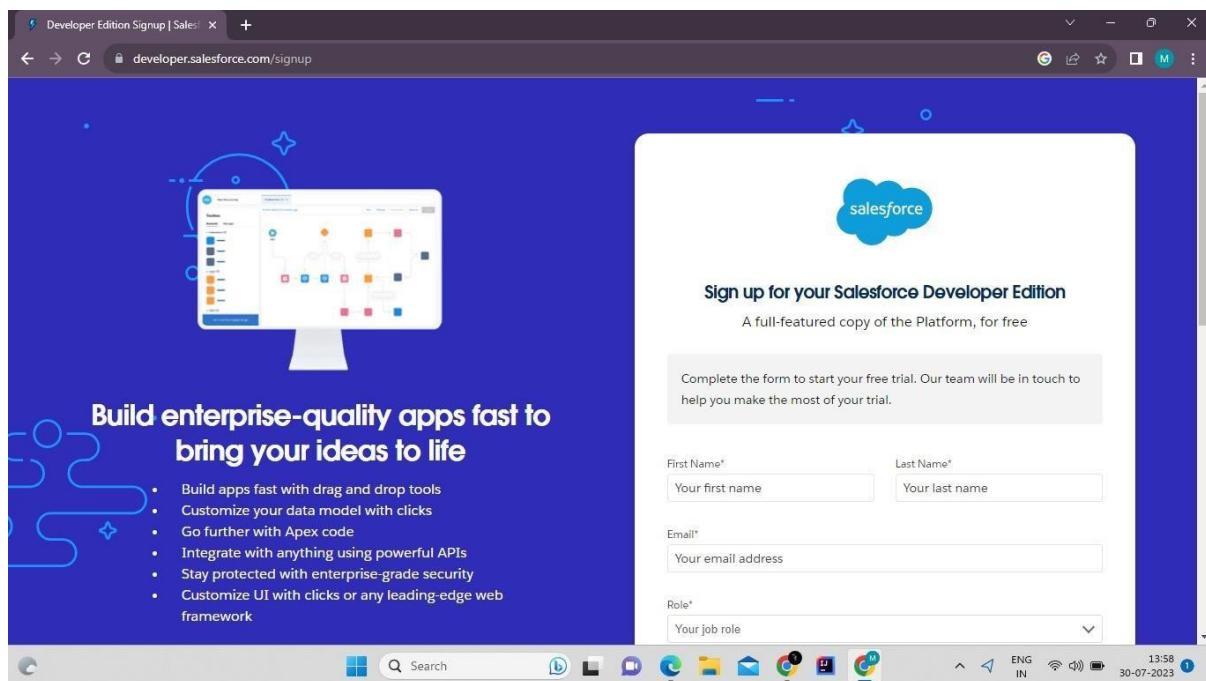
1.1 CreatingDeveloperOrg

Creatingadeveloperorginsalesforce.

1. Goto[developers.salesforce.com/Signup](https://developer.salesforce.com/signup)
2. Clickonsignup.
3. Onthesign-upform, enterthefollowingdetails:
 1. Firstname&Lastname
 2. Email
 3. Role:Developer
 4. Company:CollegeName
 5. County:India
 6. PostalCode:pincode
 7. Username:should beacomboinationofyournameandcompany

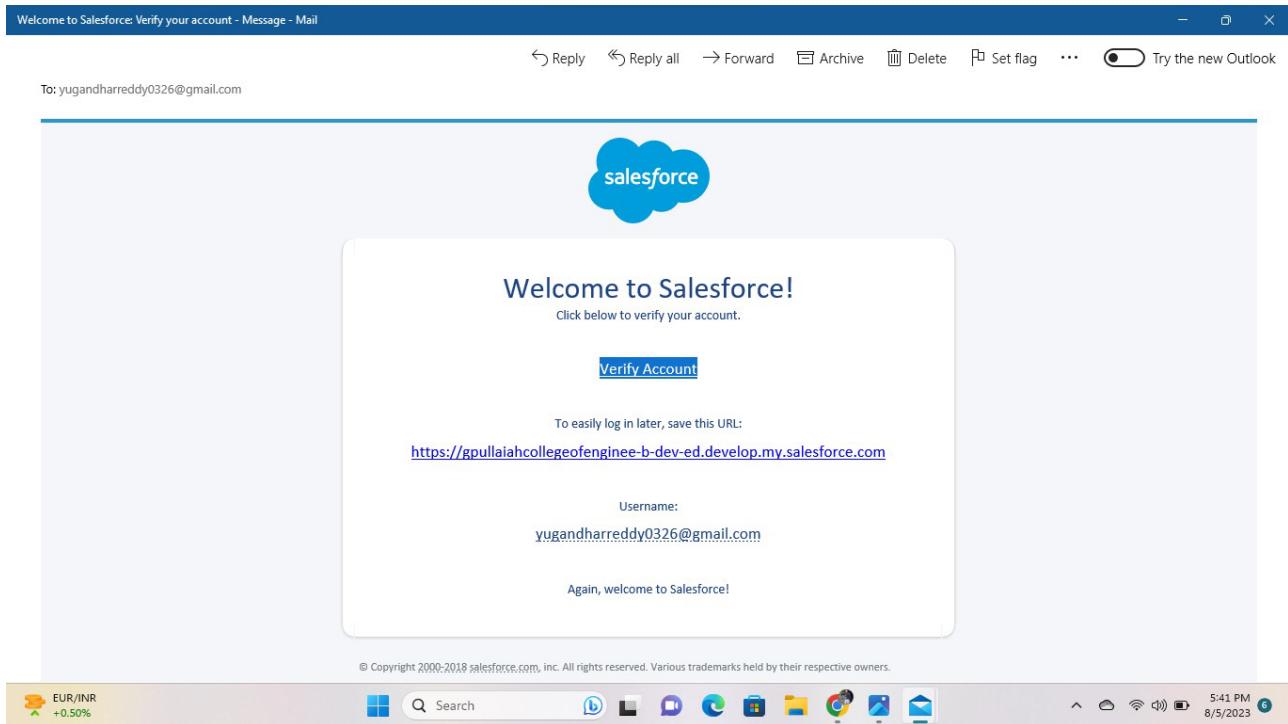
Thisneednotbeanactualemailid,youcangive anythinginthe format:username@organization.com

Clickonsignupafterfillingthese.



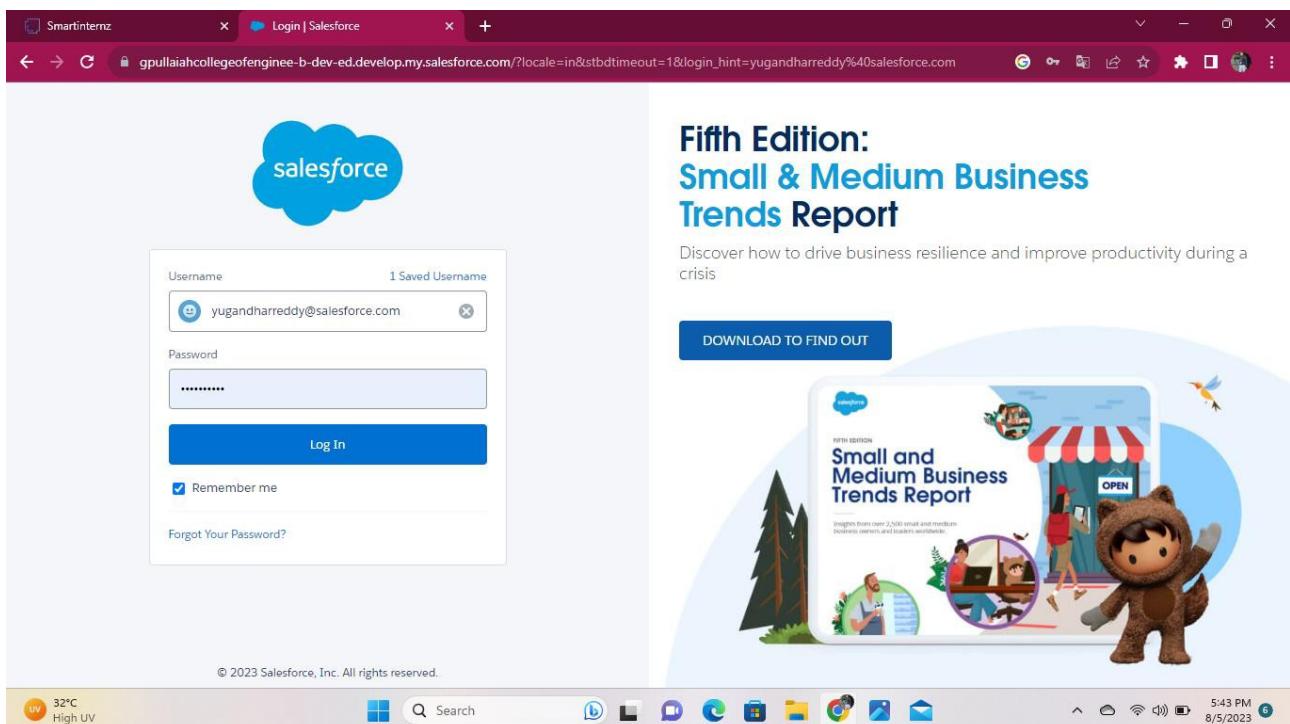
1.2 AccountActivation

Go to the inbox of the email that you used while signing up. Click on the verify account to activate your account. The email may take 5-10 mins, as



Login to Your Salesforce Account

1. Go to salesforce.com and click on login.
2. Enter the username and password that you just created.
3. After login this is the home page which you will see.

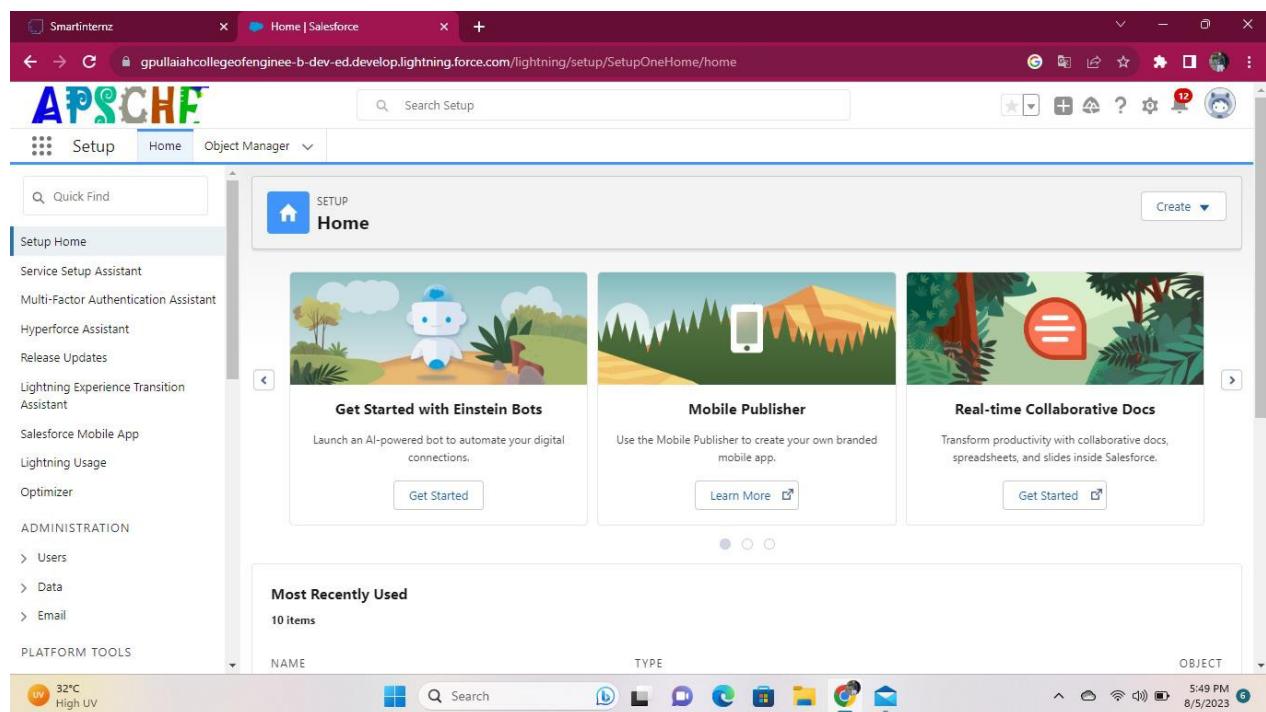


Salesforce Login

<https://login.salesforce.com>

Login to Your Salesforce Account

1. Go to salesforce.com and click on login.
2. Enter the username and password that you just created.
3. After logging in, this is the home page which you will see.



CHAPTER 2

OBJECT INTRODUCTION

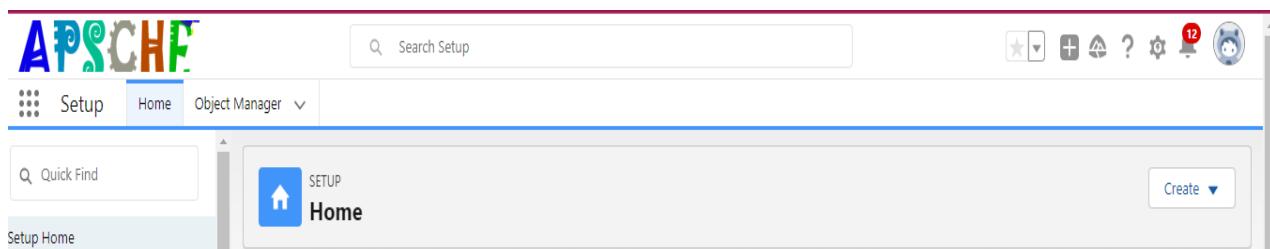
Salesforce objects are database tables that permit you to store data that is specific to an organization. Salesforce objects are of two types:

1. Standard Objects: Standard objects are the kind of objects that are provided by salesforce.com such as users, contracts, reports, dashboards, etc.
2. Custom Objects:
Custom objects are those objects that are created by users. They supply information that is unique and essential to their organization. They are the heart of any application and provide a structure for sharing data.

2.1 Creation Of Semester Object For Candidate Internal Result Card

1. Click on the gear icon and then select Setup.
2. Click on the object manager tab just beside the home tab.
3. After the above steps, have a look on the extreme right you will find a Create button. Click on that and select Custom Object.
4. On the Custom Object Definition page, create the object as follows:
 5. Label: Semester
 6. Plural Label: Semesters
 7. Record Name: Semester Name
 8. Check the Allow Reports
 9. Check the Allow Search
 10. Click Save.

In the same way create 4 more objects as **Candidate**, **Course Details**, **Lecturer Details** and **Internal results**.



The image shows two screenshots of the Salesforce interface. The top screenshot is the 'Object Manager' page, showing a list of objects with a search bar and navigation buttons. The bottom screenshot is the 'New Custom Object' page, where a custom object named 'New Custom Object' is being defined. The form includes fields for Label (Account), Plural Label (Accounts), and Object Name (Account). A note indicates that permissions are disabled by default and can be enabled in permission sets or custom profiles.

SETUP Object Manager

51+ Items, Sorted by Label

Quick Find Schema Builder Create ▾

APSCHF

Setup Home Object Manager

Search Setup

New Custom Object

Help for this Page

Custom Object Definition Edit

New Custom Object ~ Salesforce - Developer Edition

Custom Object Information

The singular and plural labels are used in tabs, page layouts, and reports.

Label: Account Example: Account

Plural Label: Accounts Example: Accounts

Starts with vowel sound:

The Object Name is used when referencing the object via the API.

Object Name: Account Example: Account

Description:

CHAPTER3WHATISATAB?

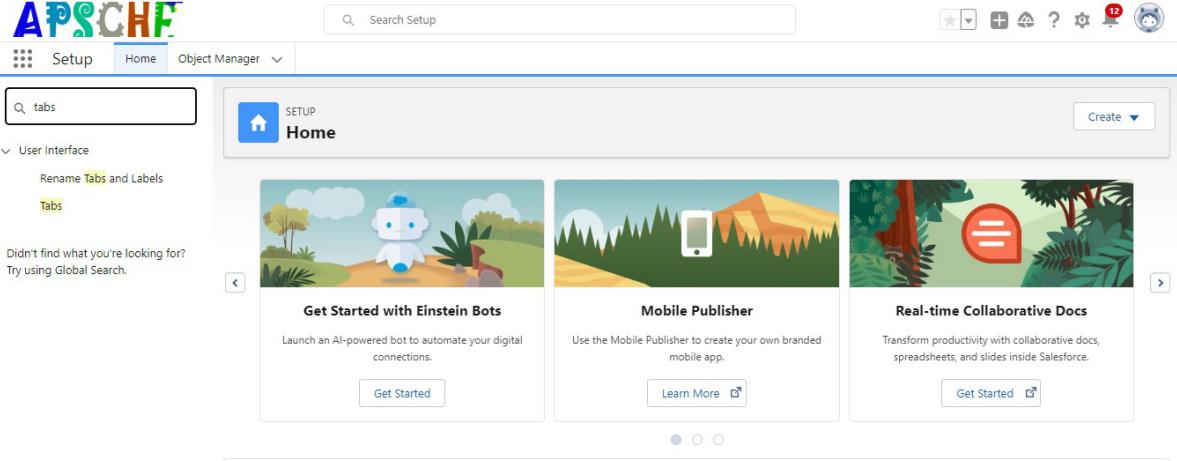
INTRODUCTION

Tabs in Salesforce help users view the information at a glance. It displays the data of objects and other web content in the application.

There are mainly 4 types of tabs:

- (A) Standard Object Tabs: Standard object tabs display data related to standard objects
- (B) Custom Object Tabs: Custom object tabs display data related to custom objects.
- (C) Web Tabs: Web Tabs display any external Web-based application or webpage in a Salesforce tabs.
- (D) Visualforce Tabs: Visualforce Tabs display data from a Visualforce Page.

3.1 Creation Of Semester Tab For Candidate Internal Result Card



The screenshot shows the Salesforce Setup Home page. At the top, there's a search bar with 'tabs' typed in. Below the search bar are several navigation links: 'Setup', 'Home', and 'Object Manager'. A 'Create' button is also visible. The main content area features three cards: 'Get Started with Einstein Bots', 'Mobile Publisher', and 'Real-time Collaborative Docs'. Below these cards is a section titled 'Most Recently Used' which lists 10 items. The 'NAME' column lists items like 'Candidates', 'Course_Details', 'Internal_results', 'Lecturer_Details', and 'Semesters'. The 'TYPE' column indicates they are all 'Custom Tabs'. At the bottom of the page, there are two tabs: 'Custom Tabs' and 'Web Tabs'. The 'Custom Tabs' tab is currently selected.

Custom Tabs

You can create new custom tabs to extend Salesforce functionality or to build new application functionality.

Custom Object tabs look and behave like the standard tabs provided with Salesforce. Web tabs allow you to embed external web applications and content within the Salesforce window. Visualforce tabs allow you to embed Visualforce pages. Lightning Component tabs allow you to add Lightning components to the navigation menu in Lightning Experience and the mobile app. Lightning Page tabs allow you to add Lightning Pages to Lightning Experience and the mobile app.

Action	Label	Tab Style	Description
Edit Del	Candidates	Heart	
Edit Del	Course_Details	Airplane	
Edit Del	Internal_results	Bank	
Edit Del	Lecturer_Details	Books	
Edit Del	Semesters	Books	

Web Tabs

SETUP

Tabs

New Custom Object Tab

Step 1. Enter the Details Step 1 of 3

Choose the custom object for this new custom tab. Fill in other details.

Select an existing custom object or [create a new custom object now](#)

Object:

Tab Style:

(Optional) Choose a Home Page Custom Link to show as a splash page the first time your users click on this tab.

Splash Page Custom Link:

Enter a short description.

Description:

CHAPTER 4 LIGHTNING

APPINTRODUCTION

Apps in Salesforce are a group of tabs that help the application function by working together as a unit. It has a name, a logo, and a particular set of tabs. The simplest app usually has just two tabs. There are two types of apps –

1. Standard Apps: Standard apps come with every occurrence of Salesforce as default. Many features like Sales, Marketing, Community, call center, content, Salesforce chatter, App Launcher, etc. are present in it.

Note: The description, logo, and label of standard app cannot be altered.

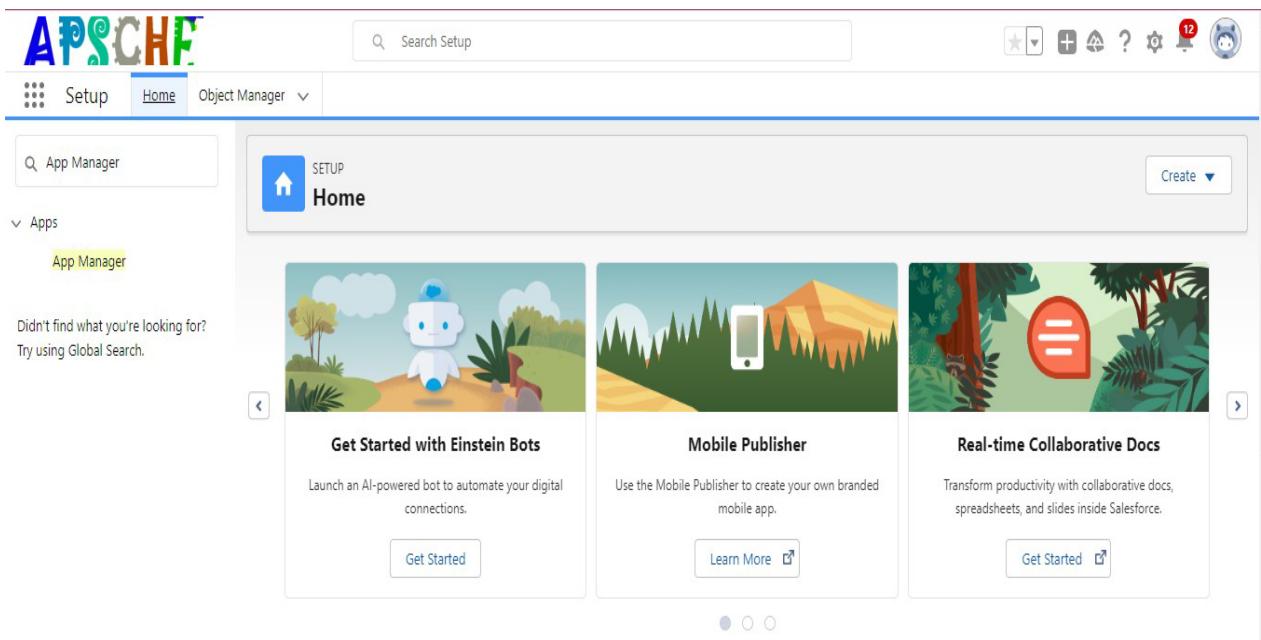
2. Custom Apps: Custom apps are created according to the need of user. Custom Apps are made by using standard and custom tabs together.

Note: Logos for Custom Apps can be changed.

4.1 Create The Candidate Internal Result Card App

1. From Setup, enter App Manager in the Quick Find and select App Manager.
2. Click New Lightning App.
3. Enter **Candidate Internal Result Card** as the App Name, then click Next.
4. Under App Options, leave the default selections and click Next.
5. Under Utility Items, leave as is and click Next.
6. From Available Items, select **Semester, Candidate, Course Details, Lecturer Details, Internal results, Reports, and Dashboards** and move them to Selected items.
7. Click Next.

From Available Profiles, select System Administrator and move it to Selected Profiles. Click Save & Finish.



The screenshot shows the 'Lightning Experience App Manager' setup page. At the top, there's a search bar labeled 'Search Setup'. Below it, a navigation bar includes 'Setup', 'Home', and 'Object Manager'. The main area is titled 'Lightning Experience App Manager' with a sub-section 'App Manager'. A button 'New Lightning App' is visible. The page displays a list of 22 items, sorted by App Name and filtered by All appmenuitems - TabSet Type.

This screenshot shows the 'New Lightning App' configuration page. The title is 'New Lightning App' and the section is 'App Details & Branding'. It asks for a name ('Candidate Internal Result Card'), developer name ('Candidate_Internal_Result_Card'), and a description ('Enter a description...'). It also includes branding options like an image upload and a primary color hex value (#0070D2). A progress bar at the bottom indicates the process is at step 11 of 12. The sidebar on the left shows 'Apps' and 'App Manager'.

This screenshot shows the 'Available Items' selection screen for the app. A search bar at the top has 'das' typed into it. The results list includes 'Semesters', 'Candidates', 'Course Details', 'Lecturer Details', 'Internal results', 'Reports', and 'Dashboards'. Navigation arrows are available to move between pages of results. A 'Next' button is located at the bottom right of the screen.

CHAPTER5FIELDSANDRELATIONSHIP

INTRODUCTION

Fields- Fields store data values that are required for a particular object in a record.

An object relationship in Salesforce is a two-way association between two objects. Relationships are created by creating custom relationship fields on an object. This is done so that when users view records, they can also see and access related data.

ObjectName	FieldName	Datatype
Semester	SemesterName	Text(Standardfield)
	Course	Lookup(CourseDetails)
Candidate	CandidateName	Text(Standardfield)
	CandidateRollNumber	AutoNumber
	SemesterName	Lookup(Semester)
LecturerDetails	LecturerName	Text(Standardfield)
	LecturerRole	Text
	Course	Lookup(Course)
CourseDetails	CourseName	Text(Standardfield)
	Duration(Years)	Number

Internalresults	Candidate	Lookup(candidate)
	CandidateRollNumber	Formula
	Course	Lookup(Course)
	Marks	Number

5.1 Creation Of TextField On "LecturerDetails" & LookUp Field For The "Candidate" Object

1. Click the gear icon and select Setup. This launches Setup in a new tab.
2. Click the Object Manager tab next to Home.
3. Select LecturerDetails
4. Select Fields & Relationships from the left navigation
5. Click New
6. Select the Text as the Data Type, click Next.
7. For Field Label, enter LecturerRole
8. Enter Length 40
9. Click Next, Next, then Save & New.

The screenshot shows the Salesforce Object Manager interface. The top navigation bar includes 'Setup' (selected), 'Home', 'Object Manager' (with a dropdown arrow), and a search bar. Below the navigation is a toolbar with various icons. The main area displays the 'Lecturer Detail' object's fields. On the left, a sidebar lists options like Details, Fields & Relationships (selected), Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, and Search Layouts. The right side shows a table titled 'Fields & Relationships' with 7 items, sorted by Field Label. The table columns are: FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The data in the table is as follows:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Course	Course__c	Lookup(Course Detail)		✓
Created By	CreatedById	Lookup(User)		
Duration	Duration__c	Number(18, 0)		
Last Modified By	LastModifiedById	Lookup(User)		
Lecturer Name	Name	Text(80)		✓
Lecturer Role	Lecturer_Role__c	Text(40)		
Owner	OwnerId	Lookup(User/Group)		✓

Now Let's create a Lookup field on candidate object

1. Click the gear icon and select Setup. This launches Setup in a new tab.
2. Click the Object Manager tab next to Home.
3. Select Candidate.
4. Select Fields & Relationships from the left navigation
5. Click New
6. Select the lookup as the Data Type, then click Next.
7. In related select Semester
8. For Field Label Semester Name, enter.
9. Click Next, Next, then Save & New.

Fields & Relationships

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 Detail)		✓
Course	Name	Text(80)		✓
Created By	CreatedById	Lookup(User)		▼
Internal result	Internal_result__c	Lookup(Internal result)		✓
Last Modified By	LastModifiedById	Lookup(User)		▼

Note-Similarly create all lookup fields on their respective objects.

5.2 Creation Of AutoNumber Field On Candidate Object, Number Field On CourseDetails Object & Formula Field CourseDetails Object

Let's create a Number field on CourseDetails object

1. Click the gear icon and select Setup. This launches Setup in a new tab.
2. Click the Object Manager tab next to Home.
3. Select CourseDetail.
4. Select Fields & Relationships from the left navigation.
4. Click New & select number field, click Next
6. For Field Label Duration, enter.
7. Give Help Text - Enter Course duration value in Years
8. Click Next, Next, then Save & New.

Fields & Relationships

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Candidate	Candidate__c	Lookup(Candidate)		✓
Course Name	Name	Text(80)		✓
Created By	CreatedById	Lookup(User)		▼
Duration	Duration__c	Number(18, 0)		▼
Last Modified By	LastModifiedById	Lookup(User)		▼
Owner	OwnerId	Lookup(User, Group)		✓
Semester	Semester__c	Lookup(Semester)		✓

Now Let's create a Formula field on InternalResults object

1. Click the gear icon and select Setup. This launches Setup in a new tab.
2. Click the Object Manager tab next to Home.
3. Select Internal results.
4. Select Fields & Relationships from the left navigation.
5. Click New
6. Select the Formula as the Data Type, then click Next.
7. Give field label Candidate_Roll_Number
8. Select formula return type text, Click Next
9. Click Insert Field
10. Create and insert formula Candidate_r.Candidate_Roll_Number c, and then click Insert.
11. Click Next, Next, then Save.

The screenshot shows the Salesforce Object Manager interface. The top navigation bar includes 'Setup', 'Home', and 'Object Manager'. The main area displays the 'Course Detail' object. On the left, a sidebar lists various setup options like Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, etc. The right side shows the 'Fields & Relationships' section with a table. The table has columns: FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. It lists seven fields: Candidate (Candidate__c, Lookup(Candidate)), Course Name (Name, Text(80)), Created By (CreatedById, Lookup(User)), Duration (Duration__c, Number(18, 0)), Last Modified By (LastModifiedById, Lookup(User)), Owner (OwnerId, Lookup(User, Group)), and Semester (Semester__c, Lookup(Semester)).

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Candidate	Candidate__c	Lookup(Candidate)		✓
Course Name	Name	Text(80)		✓
Created By	CreatedById	Lookup(User)		✓
Duration	Duration__c	Number(18, 0)		✓
Last Modified By	LastModifiedById	Lookup(User)		✓
Owner	OwnerId	Lookup(User, Group)		✓
Semester	Semester__c	Lookup(Semester)		✓

Now Let's create an auto number field on Candidate object

1. Click the gear icon and select Setup. This launches Setup in a new tab.
2. Click the Object Manager tab next to Home.
3. Select Candidate.
4. Select Fields & Relationships from the left navigation
5. Click New
6. Select the Auto Number as the Data Type, then click Next.
7. For Field Label Candidate enter Roll Number.
8. Give a display format
9. Click Next, Next, then Save & New.



Setup Home Object Manager

Search Setup



SETUP > OBJECT MANAGER

Course Detail

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

Fields & Relationships

7 Items, Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Candidate	Candidate__c	Lookup(Candidate)		✓
Course Name	Name	Text(80)		✓
Created By	CreatedById	Lookup(User)		
Duration	Duration__c	Number(18, 0)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Semester	Semester__c	Lookup(Semester)		✓



Setup Home Object Manager

Search Setup



SETUP > OBJECT MANAGER

Internal result

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

Fields & Relationships

9 Items, Sorted by Field Label

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 Detail)		✓
Course	Name	Text(80)		✓
Created By	CreatedById	Lookup(User)		
Internal result	Internal_result__c	Lookup(Internal result)		✓
Last Modified By	LastModifiedById	Lookup(User)		

CHAPTER 6

USERINTRODUCTION

A user is anyone who logs in to Salesforce. Users are employees at your company, such as sales reps, managers, and IT specialists, who need access to the company's records. Every user in Salesforce has a user account.

6.1 Creating A User

1. From Setup, in the Quick Find box, enter Users.
 2. Select Users.
 3. Click New User.
 4. Enter the First Name, Class, Last Name, Teacher and (Your) email address and a unique username in the form of an email address. By default, the username is the same as the email address.
 5. Select a User License as Salesforce.
- NOTE- As Salesforce license can only be used by 2 Users at a time in Dev Org, so If you don't find salesforce license then deactivate user who has salesforce license Or change the license type from Salesforce to any other.
6. Select a profile as Standard user.
 7. Check Generate new password and notify the user immediately to have the user's login name and temporary password emailed to your email.

The screenshot shows the Salesforce Setup interface with the following details:

- Header:** Search bar with "Search Setup", a gear icon, and a help icon.
- Left Navigation Bar:** Includes "Setup", "Home", and "Object Manager". Below these, under "Lightning Usage", there are sections for "Users" (selected), "Permission Set Groups", "Permission Sets", "Profiles", "Public Groups", and "Queues". Under "Roles", there are "User Management Settings" and "Users" (selected). Other sections include "Data", "Storage Usage", "Apps", "Connected Apps", and "Connected Apps OAuth".
- Central Content Area:** Title "SETUP Users" with a blue user icon. Subtitle "All Users". A message says "On this page you can create, view, and manage users." It also mentions "In addition, download SalesforceA to view and edit user details, reset passwords, and perform other administrative tasks from your mobile devices: iOS | Android".
- Table View:** A grid showing user details. The columns are: Action, Full Name, Alias, Username, Role, Active, and Profile. The data includes:

Action	Full Name	Alias	Username	Role	Active	Profile
<input type="checkbox"/> Edit	Chatter Expert	Chatter	chatty.00d5j00000clv3e@at.4wx5bsz2fwes@chatter.salesforce.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Chatter Free User
<input type="checkbox"/> Edit	Teacher_Class	cleac	vugandharreddy0326@gmail.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Standard User
<input type="checkbox"/> Edit	User_Integration	integ	integration@00d5j00000clv3e@at.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Analytics Cloud Integration User
<input type="checkbox"/> Edit	User_Security	sec	insightssecurity@00d5j00000clv3e@at.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Analytics Cloud Security User
<input type="checkbox"/> Edit	Yugandhar Reddy_A	AYuga	vugandharreddy@salesforce.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	System Administrator

Action	Full Name	Alias	Username	Role	Active	Profile
Edit	Chatter Expert	Chatter	chatty.00d500000clv3eef!4ivx5bsz2wes@chatter.salesforce.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Chatter Free User
Edit	Teacher_Class	cteac	yugandharreddy0326@gmail.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Standard User
Edit	User_Integration	integ	integration@00d500000clv3eef!com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Analytics Cloud Integration User
Edit	User_Security	sec	insightssecurity@00d500000clv3eef!com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Analytics Cloud Security User
Edit	Yugandhar Reddy_A.	AYuga	yugandharreddy@salesforce.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	System Administrator

User Edit Class Teacher

Help for this Page ?

User Edit		Save	Save & New	Cancel
General Information = Required Information				
First Name	Class	Role	<None Specified>	
Last Name	Teacher	User License	Salesforce	
Alias	cteac	Profile	Standard User	
Email	yugandharreddy0326@gmail.com	Active	<input checked="" type="checkbox"/>	
Username	yugandharreddy0326@gmail.com	Marketing User	<input type="checkbox"/>	
Nickname	Class	Offline User	<input type="checkbox"/>	
Title		Knowledge User	<input type="checkbox"/>	
Company		Flow User	<input type="checkbox"/>	
Department		Service Cloud User	<input type="checkbox"/>	
Division		Site.com Contributor User	<input type="checkbox"/>	
		Site.com Publisher User	<input type="checkbox"/>	
		WDC User	<input type="checkbox"/>	

CHAPTER 7 USER

ADOPTIONINTRODUCTI

ON

Salesforce user adoption is the simple act of enabling a user to use SFDC's full CRM capabilities by creating strategies around onboarding, training, and continued development – all to drive overall digital adoption

7.1 CreateRecord(CourseDetails)

CreateRecords on CourseDetails Objects

1. Click on App Launcher on left side of screen.
2. Search Candidate Internal Result Card App & click on it.
3. Click on Course Details tab.
4. Click new button
5. Fill all Course Details record details.
6. Click on Save button.

The screenshot shows the Salesforce Setup interface. At the top, there is a search bar labeled "Search Setup". Below the search bar is a navigation bar with icons for Home, Object Manager, and other setup options. The main area is titled "Candidate internal result card" and shows a list of items under the "Candidate Internal Result Card" category. The list includes items like "Teacher" and "Lecturer". On the right side of the screen, there are various status indicators and links for help and reporting.

The screenshot shows the Salesforce Course Details page. At the top, there is a navigation bar with links for Semesters, Candidates, Course Details, Lecturer Details, Internal results, Reports, and Dashboards. The main area is titled "Course Details" and shows a list of "Recently Viewed" items. The list includes "MBBS", "MBA", "B.Tech", and "MCA". There are checkboxes next to each item name. On the right side, there are buttons for "New", "Import", and "Change Owner", along with a search bar and various list management tools.

7.2 ViewRecord

Viewing the Records of CourseDetail Object

New Course Detail

* = Required Information

Information

* Course Name	B.Tech	Owner
Duration ⓘ	4	A. Yugandhar Reddy

Candidate

Search Candidates...

Semester

Search Semesters...

1. Click on App Launcher on left side of screen.
2. Search Candidate Internal Result Card & click on it.
3. Click on Courses details Tab.
4. Click on any record name. You can see the details of the Driver

The screenshot shows the APSCHE Setup interface. The top navigation bar includes 'Setup' (selected), 'Home', and 'Object Manager'. A search bar at the top right contains the placeholder 'Search Setup'. To the right are various icons for configuration and help. On the left, a sidebar lists 'Apps' and 'Items'. Under 'Items', 'Candidate Internal Result Card' is selected. The main content area displays a search bar with 'Candidate internal result card' and a list of results. One result, 'Teacher', is partially visible. A 'Help for this Page' link is located in the bottom right corner.

The screenshot shows the APSCHE Candidate Internal Result Card interface. The top navigation bar includes 'Candidate Internal ...' (selected), 'Semesters', 'Candidates', 'Course Details' (selected), 'Lecturer Details', 'Internal results', 'Reports', and 'Dashboards'. A search bar at the top right contains the placeholder 'Search...'. To the right are icons for 'New', 'Import', and 'Change Owner'. Below the navigation, a section titled 'Recently Viewed' shows a list of 4 items: MBBS, MBA, B.Tech, and MCA. Each item has a checkbox next to it. A search bar labeled 'Search this list...' and a set of filter and sort icons are located below the list.

7.3 DeleteRecord

DeletingRecords of CourseDetailsObject

1. ClickonAppLauncheronleftsideofscreen.
2. SearchCandidateInternalResultCard&clickonit.
3. ClickonCoursedetailsTab.
4. ClickonArrowatrighthandsideonthatParticularrecord.
5. Clickdeleteanddeleteagain.

The screenshot shows the SAP Fiori Launchpad interface. At the top, there is a search bar labeled "Search Setup". Below the search bar is a navigation bar with icons for Home, Object Manager, and Setup. The main area displays a search result for "Candidate internal result card". The search bar also shows the term "Candidate internal result card". To the right of the search bar, there are several small icons for navigation and help. The overall theme is light blue and white.

The screenshot shows the SAP Fiori application for "Candidate Internal Result Card". The top navigation bar includes links for "Candidate Internal ...", "Semesters", "Candidates", "Course Details", "Lecturer Details", "Internal results", "Reports", and "Dashboards". The main content area displays a list titled "Course Details Recently Viewed". It shows four items: MBBS, MBA, B.Tech, and MCA, each preceded by a checkbox. To the right of the list are various filter and search options, including a search bar labeled "Search this list..." and icons for "New", "Import", and "Change Owner". The overall theme is light blue and white.

CHAPTER8WHATAREREPORTS?

INTRODUCTION

Reports in Salesforce is a list of records that meet a particular criterion which gives an answer to a particular question. These records are displayed as a table that can be filtered or grouped based on any field.

There are 4 types of report formats in Salesforce:

Tabular Reports:

This is the most basic report format. It just displays the rows of records in a table with a grand total. While easy to set up they can't be used to create groups of data or charts and also cannot be used in Dashboards. They are mainly used to generate a simple list or a list with a grand total.

Summary Reports:

It is the most commonly used type of report. It allows grouping of rows of data, view subtotal, and create charts.

Matrix Report:

It is the most complex report format. Matrix report summarizes information in a grid format. It allows records to be grouped by both columns and rows. It can also be used to generate dashboards. Charts can be added to this type of report.

Joined Reports:

These types of reports let us create different views of data from multiple report types. The data in joined reports are organized in blocks. Each block acts as a sub-report with its own fields, columns, sorting, and filtering. They are used to group and show data from multiple report types in different views.

Report types:

Report type determines which set of records will be available in a report. Every report is based on a particular report type. The report type is selected first when we create a report. Every report type has a primary object and one or more related objects. All these objects must be linked together either directly or indirectly.

A report type can not include more than 4 objects. Once a report is created, its report type cannot be changed.

There are 2 types of report types:

Standard Report Types: Standard Report Types are automatically included with standard objects and also with custom objects where

"Allow Reports" is checked. Standard report types cannot be customized and automatically include standard and custom fields for each

object within the report type. Standard report types get created when an object is created, also when a relationship is created.

Note: Standard report types always have inner joins.

Custom Report Types: Custom report types are reporting templates created to streamline the reporting process. Custom Reports are created by an administrator or User with "Manage Custom Report Types" permission. Custom report types are created when standard report types cannot specify which records will be available on reports.

In custom report types we can specify objects which will be available in a particular report. The primary object must have a relationship with other objects present in a report type either directly or indirectly.

There are 3 types of access levels of folders:

Viewer: With this access level, users can see the data in a report but cannot make any change except cloning it into a new report.

Editor: With this access level, users can view and modify the report if it contains and can also move them to/from any other folder if they have access level as Editor or Manager.

Manager: With this access level, users can do everything Viewers & Editors can do, plus they can also control other user's access levels to this folder. Also, users with Manager Access level can delete the report.

8.1 Create Project

1. Click App Launcher
2. Select Candidate Internal Result Card App
3. Click report tab
4. Click New Report.
5. Click the report type as Semesters with Course Click Start report.
6. Customize your report, in group rows select - Course Name, in group column Select Duration (In this way we are making a Matrix Report).
7. Click refresh
8. Click save and run
9. Give report name – Candidate Internal Result Report
10. Click Save

NOTE: In this report you can see your all record of the object you selected for reporting (What you Selects in "Select a report type option").

The screenshot shows the SAP Fiori Launchpad interface. At the top, there is a search bar labeled "Search Setup". Below the search bar, there are several icons: a star, a plus sign, a cloud, a question mark, a gear, a bell, and a user profile icon. The main area displays a grid of app cards. One card is highlighted with a blue border and has a magnifying glass icon, labeled "Candidate internal result card". The card also includes the text "SETUP", "Users", and "teacher". To the left of the card, there is a sidebar with a tree view under the heading "Items". The tree structure includes "Apps" and "Candidate Internal Result Card". The "Candidate Internal Result Card" node is expanded, showing "Recently Used" items: "All", "Accounts & Contacts", "Opportunities", "Customer Support Reports", "Leads", and "Campaigns".

The screenshot shows the "Create Report" screen. At the top, it says "Create Report". On the left, there is a sidebar titled "Category" with a section "Recently Used" containing "All", "Accounts & Contacts", "Opportunities", "Customer Support Reports", "Leads", and "Campaigns". In the center, there is a section titled "Select a Report Type" with a search bar "Search Report Types...". Below the search bar, there is a table titled "Recently Used Report Types" with columns "Report Type Name" and "Category". One row is selected: "Semesters with Course" under "Standard". On the right, there is a "Details" panel for the selected report. It shows the report name "Semesters with Course" and its description "Standard Report Type". There is a "Start Report" button and a "Fields (24)" link. Below that, there is a section titled "Created By You" with a report named "Candidate internal Result Report".

The screenshot shows the "Reports" screen. At the top, there is a navigation bar with links: "Candidate Internal ...", "Semesters", "Candidates", "Course Details", "Lecturer Details", "Internal results", "Reports", "Dashboards", and a pen icon. The "Reports" tab is selected. Below the navigation bar, there is a search bar "Search..." and a search bar "Search recent reports...". There are buttons for "New Report", "New Folder", and a trash bin icon. The main area is titled "Recent" and shows a table of recent reports. The table has columns: "REPORTS", "Report Name", "Description", "Folder", "Created By", "Created On", and "Subscribed". One report is listed: "Candidate Internal Result Report" (Report Name), "Private Reports" (Folder), "A. Yugandhar Reddy" (Created By), "4/8/2023, 10:34 pm" (Created On), and "Subscribed" (Status).

1. On the report builder page, locate the "Fields" pane on the left-hand side.
2. Find the field for which you want to create a bucket field and drag it to the report preview section.
3. Click on the field in the report preview to open the field properties.
4. In the field properties, locate the "Summarize" option and click the drop-down arrow.
5. Select "BucketField" from the available options.
6. In the bucket field settings, define the buckets based on your requirements. You can specify the bucket ranges, labels, and groupings.
7. Click "OK" or "Apply" to save the bucket field settings.
8. Customize the report layout and add any additional fields or filters as needed.
9. Once you are satisfied with the report setup, click "Save" to save the report.

The screenshot shows the APSCH E-reporting system's report builder interface. The main window displays a report titled "Candidate Internal Result Report" for "Semesters with Course". The report table shows the following data:

Course: Course Name	Course: Duration	Record Count	2	4	5	Total
B.Tech	Record Count	0	3	0	3	3
MBA	Record Count	2	0	0	2	2
MBBS	Record Count	0	0	3	3	3
MCA	Record Count	3	0	0	3	3
Total	Record Count	5	3	3	11	

Below the table, a details section lists 11 rows of semester names: semester 3, Semester 1, semester 2, semester 1, semester 2, semester 1, semester 2, semester 1, semester 2, semester 1, and semester 2. The report builder sidebar on the left allows users to outline, filter, and group data by course name and duration.

New Dashboard

* Name

Candidate Internal Result Card

Description

Folder

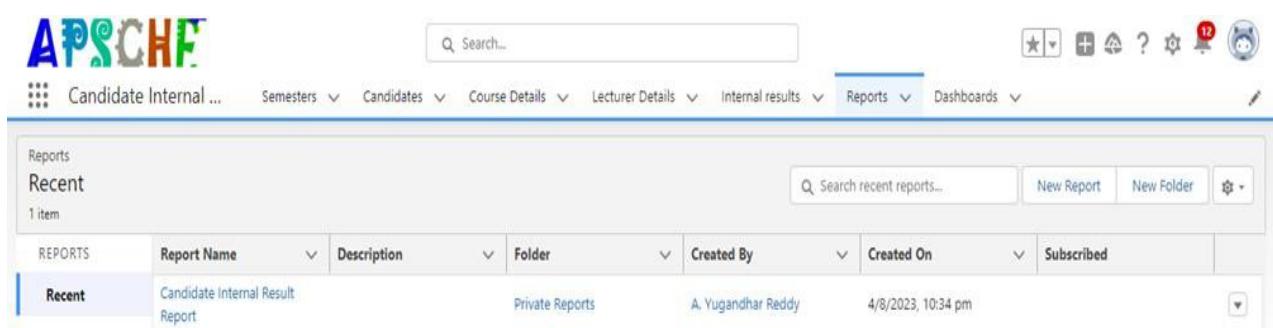
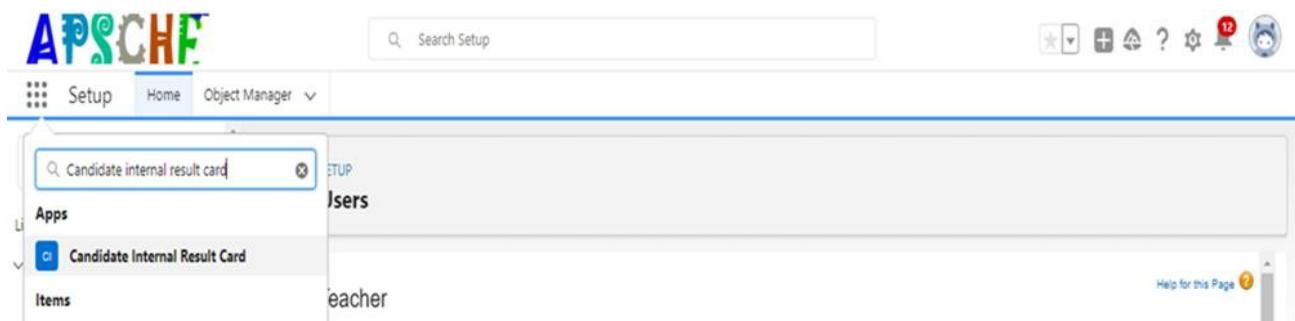
Private Dashboards

Select Folder

Cancel Create

8.2 ViewReport

1. ClickonAppLauncheronleftsideofscreen.
2. SearchCandidateInternalResultCardApp&clickonit.
3. ClickonReportsTab.
4. ClickonCandidateInternalResultReportandseerecords.

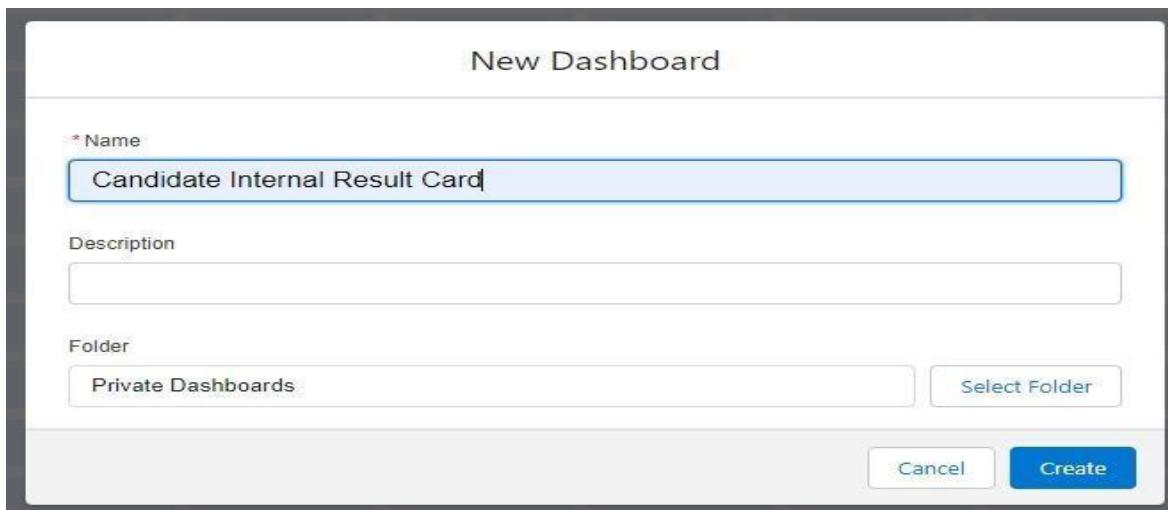


CHAPTER9DASHBOARDSINTRODUCTION

Dashboards let you curate data from reports using charts, tables ,and metrics. If your colleagues need more information, then they're able to view your dashboard's data-supplying reports. Dashboard filters make it easy for users to apply different data perspectives to a single dashboard.

9.1 CreateDashboard

1. Click on Dashboardstab from the CandidateInternalResultCard application.
2. Click on new dashboard.
3. Give name-CandidateInternalResultCard
4. Click create
5. Give your dashboard a name and click on + component
6. Select the CandidateInternalResultReport which you created.
7. For the data visualization select any of the chart, table etc. as per your choice/requirement.
8. Click add.
9. Click save.

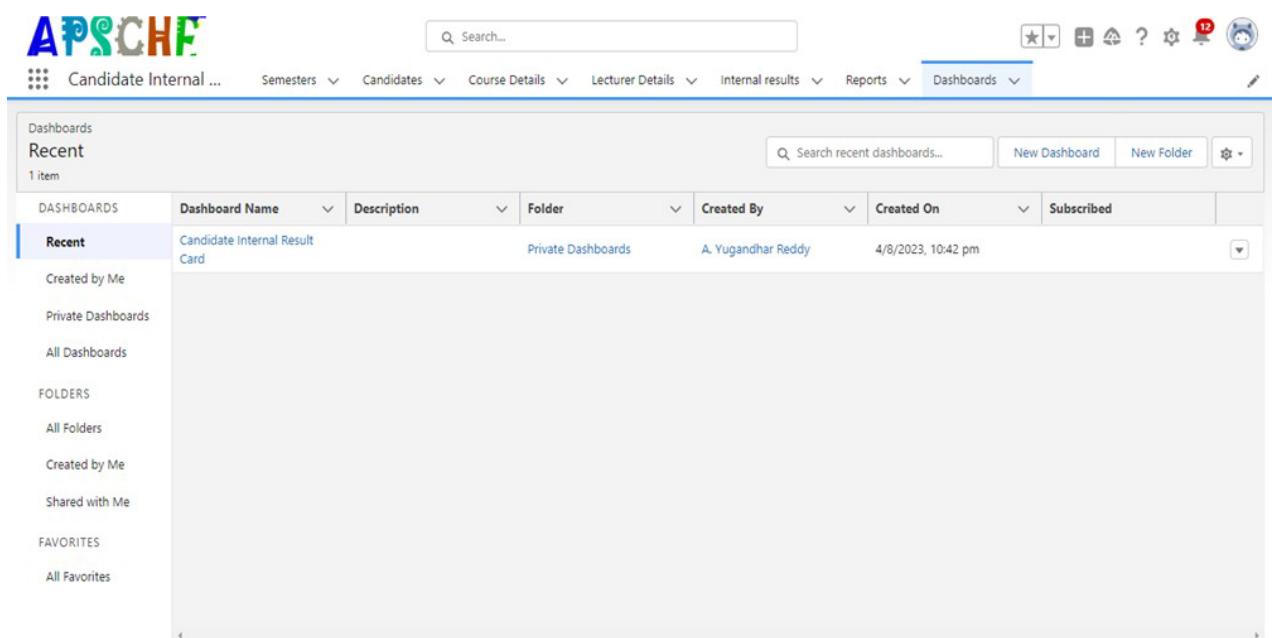
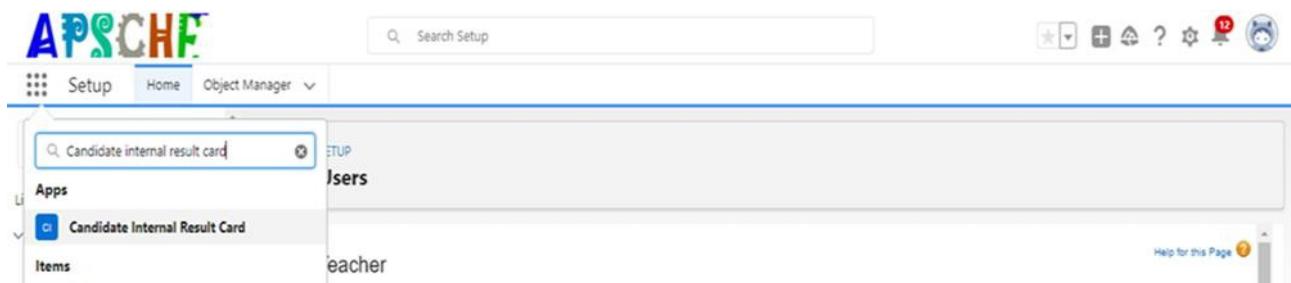


Candidate Internal Result Card

+ Component + Filter Save Done

9.2 ViewDashboard

1. ClickonAppLauncheronleftsideofscreen.
2. SearchCandidateInternalResultCard&clickonit.
3. ClickonDashboardTab.
4. ClickonCandidateInternalResultCardseegraphviewofrecords



CHAPTER10EXPERIMENTALRESULTS

Fig 10.1

The screenshot shows the APSCHF application's dashboard management interface. At the top, there is a navigation bar with links for Candidate Internal ..., Semesters, Candidates, Course Details, Lecturer Details, Internal results, Reports, Dashboards, and a search bar. Below the navigation bar is a sidebar titled 'Dashboards' with sections for Recent, Created by Me, Private Dashboards, and All Dashboards. The main area displays a table titled 'DASHBOARDS' with columns for Dashboard Name, Description, Folder, Created By, Created On, and Subscribed. One item is listed: 'Candidate Internal Result Card' in the 'Private Dashboards' folder, created by A. Yugandhar Reddy on 4/8/2023, 10:42 pm.

Fig 10.2

The screenshot shows the 'Add Component' dialog box. In the 'Report' section, a report titled 'Candidate Internal Result Report' is selected. There is a checkbox for 'Use chart settings from report' which is unchecked. Under 'Display As', several chart icons are shown, with the first one (bar chart) selected. In the 'X-Axis' section, a dropdown menu is open, showing 'Course: Course Name' as the current selection. The 'Preview' section displays a bar chart titled 'Candidate Internal Result Report'. The chart has 'Record Count' on the y-axis (0 to 4) and 'Course: Duration' on the x-axis. The data points are: B.T... (4) with a value of 3, MBA (2) with a value of 2, MB... (5) with a value of 3, and MCA (2) with a value of 3. A legend indicates that blue bars represent duration 4, light blue bars represent duration 2, and purple bars represent duration 5. Below the chart, the text 'Course: Course Name > Course: Duration' is displayed. At the bottom right of the dialog are 'Cancel' and 'Add' buttons.

Fig 10.3

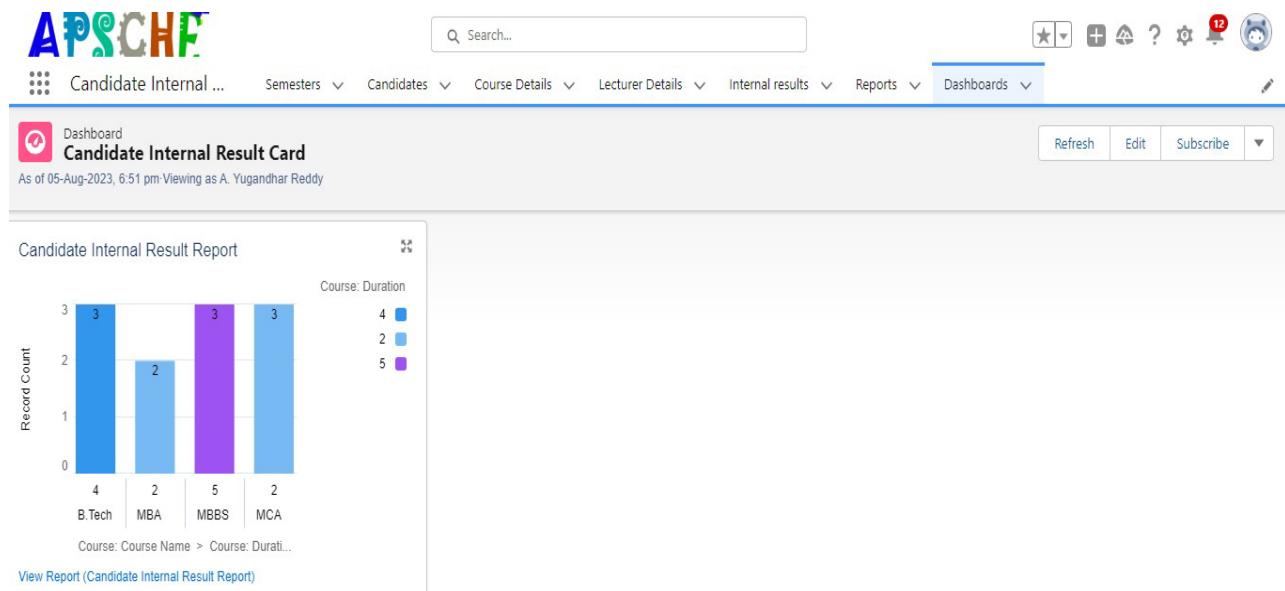
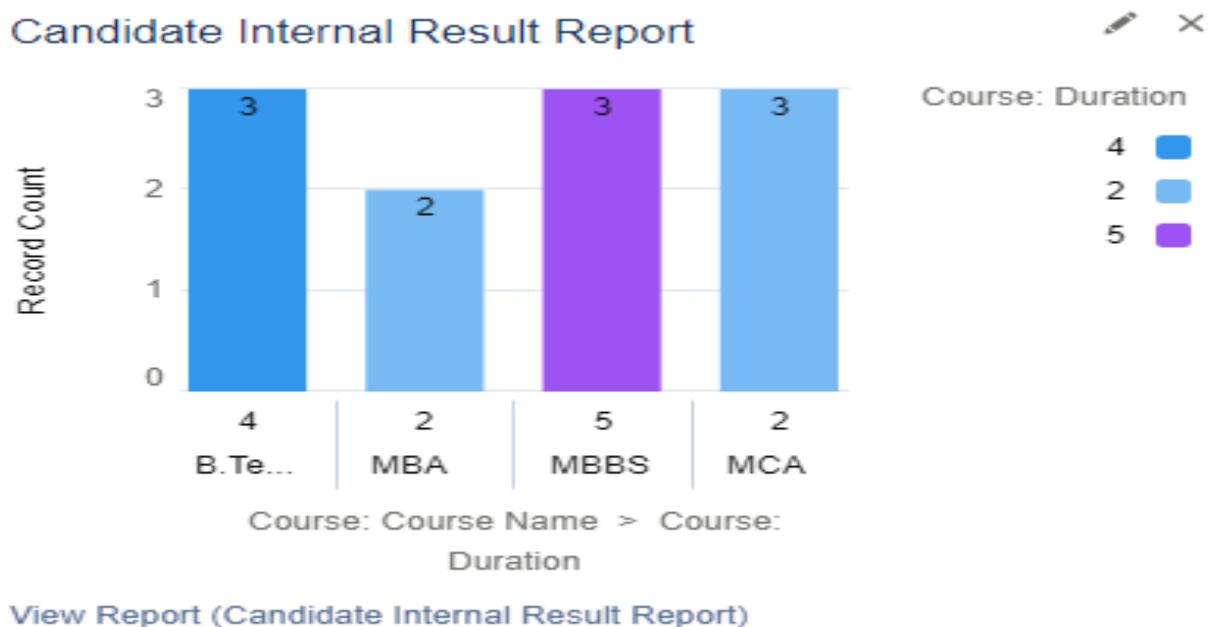


Fig10.4



11. Advantages & Disadvantages:

Advantages:

- It is used to tracking the internal results of the students.
- It tracks of students data.
- Provides streamline operations.

Disadvantages:

- If manual error occurs during the feeding of data it is difficult to be altered.
- Having lots of security concerns.
- It can be accessed by third party.

12. Conclusion:

- It is easiest method to track the students internal result and also it can be tracked anywhere through online mode.

Future Scope:

- Students date of birth can be included for verifying students.
- External marks can be included so result analysis can be done easily.

Trailhead Profile Public URL:

➤ Team Lead - <https://www.salesforce.com/trailblazer/ayugandharreddy>

