

NAAN MUDHALVAN

SALESFORCE PROJECT REPORT

COLLEGE : PONJESLY COLLEGE OF ENGINEERING

BATCH-16

NAME	NM ID	REG NO
HARITHA.H.R	007BCFCA9061D6FA5BE43AB755A75BDD	961820114034

Step 1: Create a Salesforce Account

The screenshot shows a Salesforce Lightning Usage App profile page for a user named Haritha H R. The top navigation bar includes tabs for Consultant Dashboard, Student, Internal result, Sakthivel K, Verify Your Identity, and NITHIN R J. The main header has a search bar and various icons. The profile section features a large background image of a landscape with mountains and a hot air balloon. Below the image, there's a circular profile picture of a GitHub logo, the user's name 'Haritha H R', and a 'View profile' button. A message encourages sharing awesomeness on Trailhead. The 'Details' section contains fields for Name (Haritha H R), Manager, Title, Company Name (Ponjesly College of Engineering), Email (harithahr18@gmail.com), Phone, Address (IN), and Mobile. The 'Related' section shows 'Groups (0)' and 'Files (0)' with an upload button.

Step 2 : Create the Objects(Semester,Candidate,Course Detail,Lecturer Detail, Internal Result)

The screenshot shows the Salesforce Object Manager interface. The top navigation bar includes tabs for Trailblazer Profile, Create Formula Fields Unit, Student, Recently Viewed, Internal res..., and Object Manager. The main header has a search bar and various icons. The 'Object Manager' tab is selected. The search bar shows the query 'sem'. A table lists one item: 'Semester' with API name 'semester__c', Type 'Custom Object', Description 'Custom Object', Last Modified '16/10/2023', and Deployed status checked. The table has columns for Label, API Name, Type, Description, Last Modified, and Deployed.

Label	API Name	Type	Description	Last Modified	Deployed
Semester	semester__c	Custom Object		16/10/2023	✓

The screenshot shows the Salesforce Object Manager interface. At the top, there are several tabs: R.J. Nithin - Trailblazer Profile, Create Formula Fields Unit | S, - Student, Recently Viewed | Internal res..., and Object Manager | Salesforce. The URL in the address bar is naamudhalvan-dev-ed.lightning.force.com/lightning/setup/ObjectManager/home. The main header includes a cloud icon, a search bar with 'Search Setup', and various navigation links like Home and Object Manager.

The main content area is titled 'Object Manager' with a sub-header 'SETUP'. It displays a table with one item:

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Candidate	Candidate__c	Custom Object		16/10/2023	✓

A search bar at the top right contains the text 'cand'. There are also 'Schema Builder' and 'Create' buttons.

This screenshot is identical to the one above, showing the Salesforce Object Manager interface with the same tabs, URL, and main content area. The table shows a single item:

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Course Detail	Course_Detail__c	Custom Object		16/10/2023	✓

The screenshot shows the Salesforce Object Manager interface. The search bar at the top contains the text 'lect'. A table below lists one item:

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Lecturer Detail	Lecturer_Detail__c	Custom Object		16/10/2023	✓

The screenshot shows the Salesforce Object Manager interface. The search bar at the top contains the text 'internal res'. A table below lists one item:

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Internal result	Internal_results__c	Custom Object		16/10/2023	✓

Step 3 : Create Fields for respective objects(Semester,Candidate,Course Detail, Lecturer Detail,Internal Result)

Screenshot of the Salesforce Object Manager for the Semester object. The Fields & Relationships section shows the following fields:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Course Detail	Course_Detail__c	Lookup(Course Detail)		✓
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Semester Name	Semester_name__c	Text(30)		
semester Name	Name	Text(80)		✓

Screenshot of the Salesforce Object Manager for the Candidate object. The Fields & Relationships section shows the following fields:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Candidate Name	Candidate_Name__c	Text(30)		
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	Semester__c	Lookup(Semester)		✓

R.J. Nithin - Trailblazer Profile | Create Formula Fields Unit | Student | Recently Viewed | Internal res... | Course Detail | Salesforce

naamudhalvan-dev-ed.lightning.force.com/lightning/setup/ObjectManager/01l5j000002fzru/FieldsAndRelationships/view

Setup Home Object Manager

SETUP > OBJECT MANAGER Course Detail

Details Fields & Relationships 6 Items, Sorted by Field Label

	FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Page Layouts	Course Detail Name	Name	Text(80)		✓
Lightning Record Pages	Course Name	Course_Name__c	Text(30)		▼
Buttons, Links, and Actions	Created By	CreatedBy	Lookup(User)		▼
Compact Layouts	Duration	Duration__c	Number(1, 2)		▼
Field Sets	Last Modified By	LastModifiedBy	Lookup(User)		▼
Object Limits	Owner	OwnerId	Lookup(User,Group)		✓
Record Types					
Related Lookup Filters					
Search Layouts					
List View Button Layout					
Restriction Rules					
Scoping Rules					
Triggers					
Flow Triggers					

R.J. Nithin - Trailblazer Profile | Create Formula Fields Unit | Student | Recently Viewed | Internal res... | Lecture Detail | Salesforce

naamudhalvan-dev-ed.lightning.force.com/lightning/setup/ObjectManager/01l5j000002fzrp/FieldsAndRelationships/view

Setup Home Object Manager

SETUP > OBJECT MANAGER Lecture Detail

Details Fields & Relationships 7 Items, Sorted by Field Label

	FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Page Layouts	Course Detail	Course_Detail__c	Lookup(Course Detail)		✓
Lightning Record Pages	Created By	CreatedBy	Lookup(User)		▼
Buttons, Links, and Actions	Last Modified By	LastModifiedBy	Lookup(User)		▼
Compact Layouts	Lecture Detail Name	Name	Text(80)		✓
Field Sets	Lecturer Name	Lecturer_Name__c	Text(30)		▼
Object Limits	Lecturer Role	Lecturer_Role__c	Text(30)		▼
Record Types	Owner	OwnerId	Lookup(User,Group)		✓
Related Lookup Filters					
Search Layouts					
List View Button Layout					
Restriction Rules					
Scoping Rules					
Triggers					
Flow Triggers					

Screenshot of the Salesforce Setup interface showing the Object Manager for the 'Internal result' object.

The left sidebar shows various setup categories like Page Layouts, Lightning Record Pages, Buttons, etc. The main area displays the 'Fields & Relationships' section with 6 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)		✗
Created By	CreatedBy	Lookup(User)		
Internal results Name	Name	Text(80)		✓
Last Modified By	LastModifiedBy	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓

Screenshot of the Candidate Internal... page in Salesforce.

The top navigation bar includes links for Semesters, Course Details, Lecturer Details, Internal results, Reports, Dashboards, and NITHIN R J.

A modal window titled 'New Semester' is open, prompting for 'Information'. It includes fields for 'semester Name' (marked as required), 'Semester Name', 'Course Detail', and a search bar. The 'Owner' field is populated with 'NITHIN R J'.

R.J. Nithin - Trailblazer Profile | Create Formula Fields Unit | Student | Recently Viewed | Internal res... | New Course Detail | Salesforce

naamudhalvan-dev-ed.lightning.force.com/lightning/o/Course_Detail__c/new?count=2&nooverride=1&useRecordTypeCheck=1&navigationLocation=LIST_VIEW...

Candidate Internal ... Semesters Course Details Lecturer Details Internal results Reports Dashboards * NITHIN R J

Course Details Recently Viewed

4 items • Updated a few seconds ago

Course Detail Name

1 BSc
2 Btech
3 BCA
4 MBA

New Course Detail

* Course Detail Name Owner NITHIN R J

Course Name

Duration

Cancel Save & New Save

R.J. Nithin - Trailblazer Profile | Create Formula Fields Unit | Student | Recently Viewed | Internal res... | New Lecturer Detail | Salesforce

naamudhalvan-dev-ed.lightning.force.com/lightning/o/Lecturer_Detail__c/new?count=3&nooverride=1&useRecordTypeCheck=1&navigationLocation=LIST_VIE...

Candidate Internal ... Semesters Course Details Lecturer Details Internal results Reports Dashboards * NITHIN R J

Lecturer Details Recently Viewed

1 item • Updated a few seconds ago

Lecturer Detail Name

1 Nithin

New Lecturer Detail

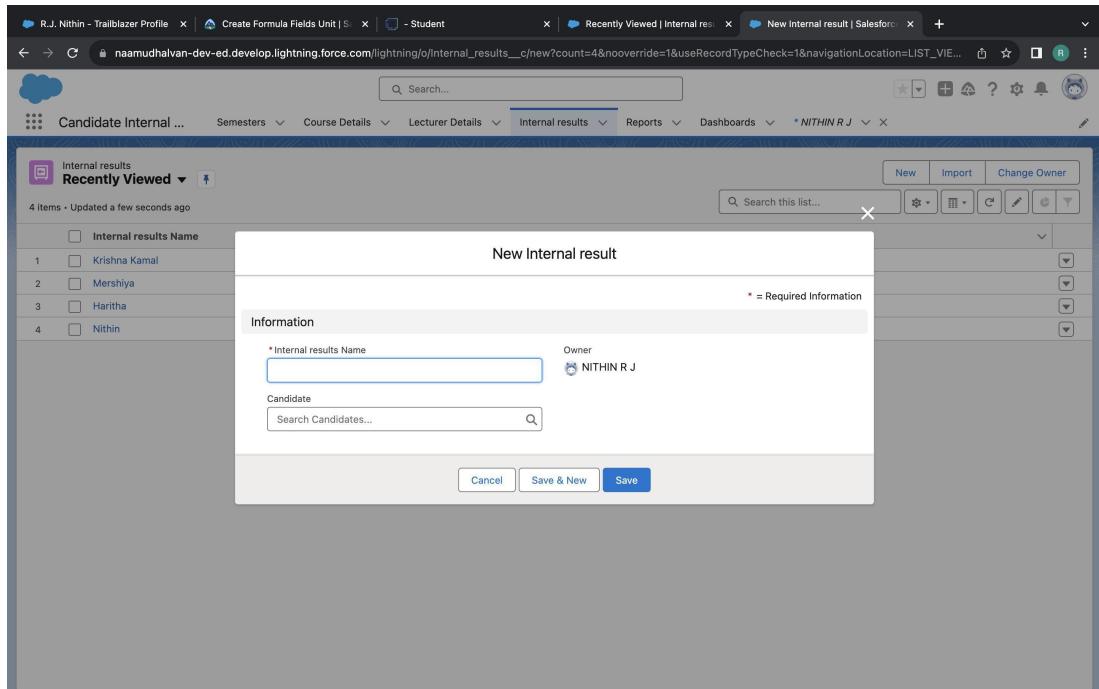
* Lecturer Detail Name Owner NITHIN R J

Lecturer Name

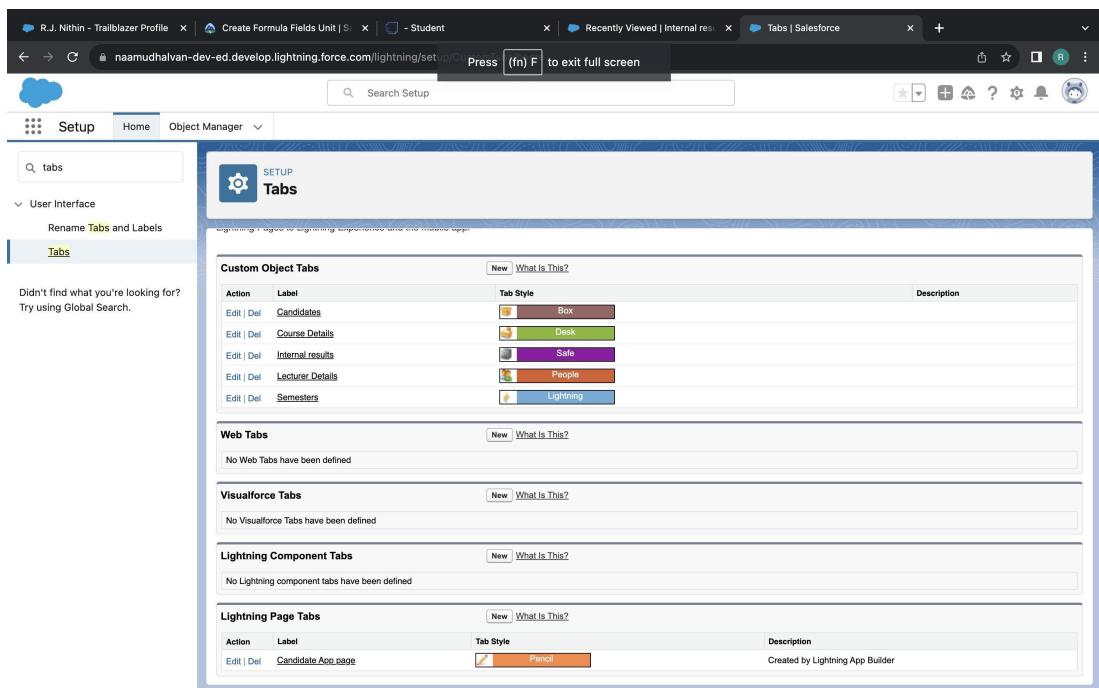
Lecturer Role

Course Detail Search Course Details...

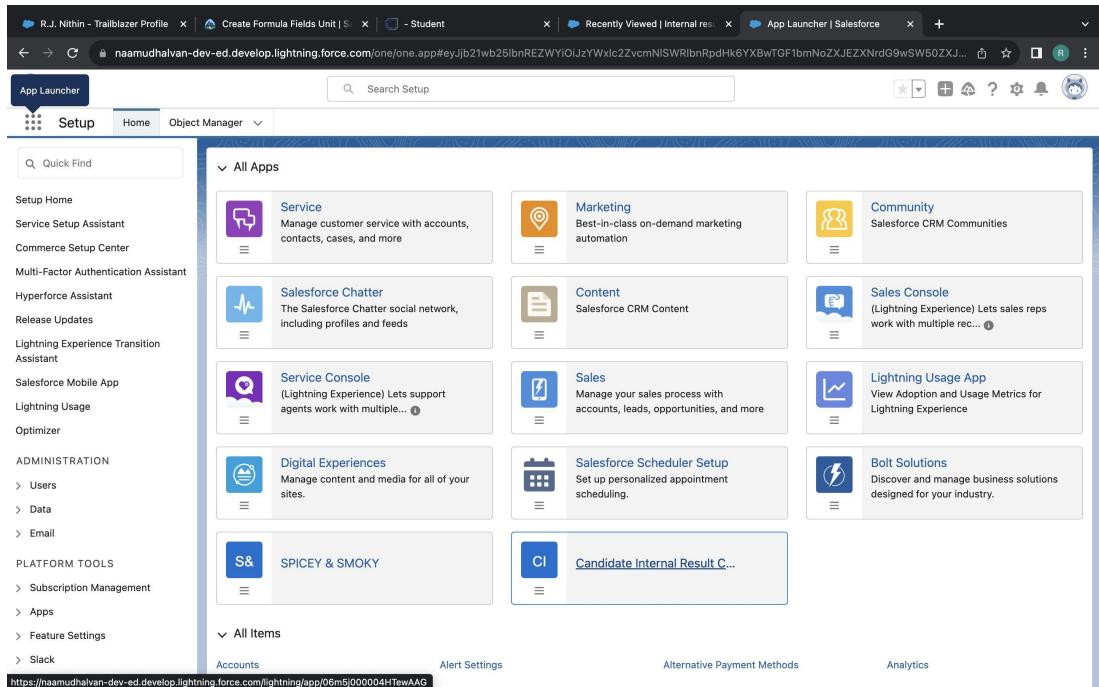
Cancel Save & New Save



Step 4 : Create the Tabs for each objects(Semester,Candidate,Course Detail, Lecturer Detail,Internal Result)



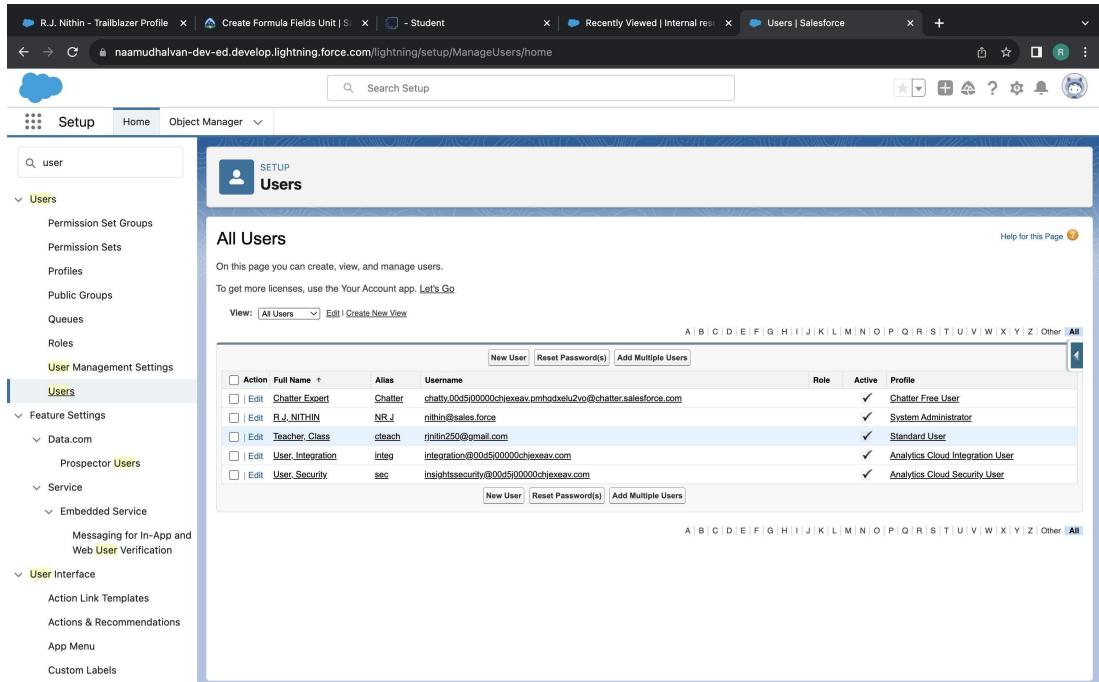
Step 5 :Create a Lightning App



The screenshot shows the Salesforce Setup Home page. On the left, there's a sidebar with links like Setup Home, Service Setup Assistant, and various Administration and Platform Tools sections. The main area displays a grid of available apps:

App	Description
Service	Manage customer service with accounts, contacts, cases, and more
Marketing	Best-in-class on-demand marketing automation
Community	Salesforce CRM Communities
Salesforce Chatter	The Salesforce Chatter social network, including profiles and feeds
Content	Salesforce CRM Content
Sales Console	(Lightning Experience) Lets sales reps work with multiple rec...
Service Console	(Lightning Experience) Lets support agents work with multiple...
Sales	Manage your sales process with accounts, leads, opportunities, and more
Digital Experiences	Manage content and media for all of your sites.
Lightning Usage App	View Adoption and Usage Metrics for Lightning Experience
Salesforce Scheduler Setup	Set up personalized appointment scheduling.
Bolt Solutions	Discover and manage business solutions designed for your industry.
SPICEY & SMOKY	
Candidate Internal Result C...	

Step 6 : Create the User(Class Teacher)



The screenshot shows the Salesforce Users setup page. The sidebar includes sections for User Management Settings, Feature Settings, Data.com, Prospector Users, Service, Embedded Service, User Interface, Action Link Templates, Actions & Recommendations, App Menu, and Custom Labels. The main area displays a table of existing users:

Action	Full Name	Alias	Username	Role	Active	Profile
<input type="checkbox"/>	Chatter Expert	Chatter	chatty.00d500000chjexavw.mnhgdxelz2vo@chatter.salesforce.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Chatter Free User
<input type="checkbox"/>	R.J. NITHIN	NR.J	nithin@salesforce	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	System Administrator
<input type="checkbox"/>	Teacher_Class	cleach	rjnithin250@gmail.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Standard User
<input type="checkbox"/>	User_Integration	integ	integration@00d500000chjexavw.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Analytics Cloud Integration User
<input type="checkbox"/>	User_Security	sec	insightssecurity@00d500000chjexavw.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Analytics Cloud Security User

Step 7 : Create Record (Course Detail)

The screenshot shows the Salesforce Setup interface. In the top navigation bar, there are tabs for 'R.J. Nithin - Trailblazer Profile', 'Create Formula Fields Unit | S', '- Student', 'Recently Viewed | Internal res...', 'Home | Salesforce', and a search bar. Below the navigation is a header with a cloud icon, a search bar containing 'Search Setup', and various icons for help, refresh, and more.

The main content area has a sidebar on the left with sections like 'Setup', 'Home', 'Object Manager', 'Search' (containing 'cand'), 'Apps', 'Items', 'Candidates', and 'View All'. The main panel displays the 'Manage Users' page. It includes a sub-header 'USERS' with a note about creating, viewing, and managing users. A table lists five users with columns for 'Action', 'Full Name', 'Alias', 'Username', 'Role', 'Active', and 'Profile'. The users listed are:

Action	Full Name	Alias	Username	Role	Active	Profile
<input type="checkbox"/> Edit	Chatter Expert	Chatter	chatty@00d500000chjexav.pmhgdelu2vo@chatter.salesforce.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Chatter Free User
<input type="checkbox"/> Edit	R.J. NITHIN	NRJ	nithin@salesforce	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	System Administrator
<input type="checkbox"/> Edit	Teacher_Class	cleach	rjnith250@gmail.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Standard User
<input type="checkbox"/> Edit	User_Integration	integ	integration@00d500000chjexav.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Analytics Cloud Integration User
<input type="checkbox"/> Edit	User_Security	sec	insightsecurity@00d500000chjexav.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Analytics Cloud Security User

At the bottom of the table are buttons for 'New User', 'Reset Password(s)', and 'Add Multiple Users'. There are also links for 'A' through 'Z' and an 'All' link.

Step 8 : View Record (Course Detail)

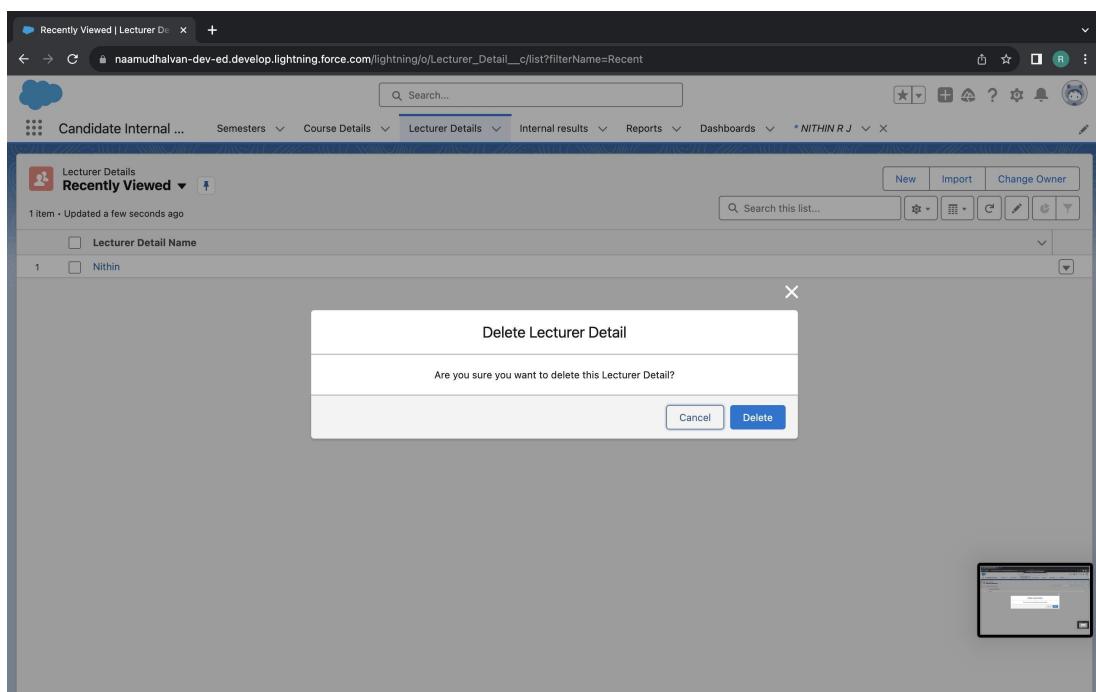
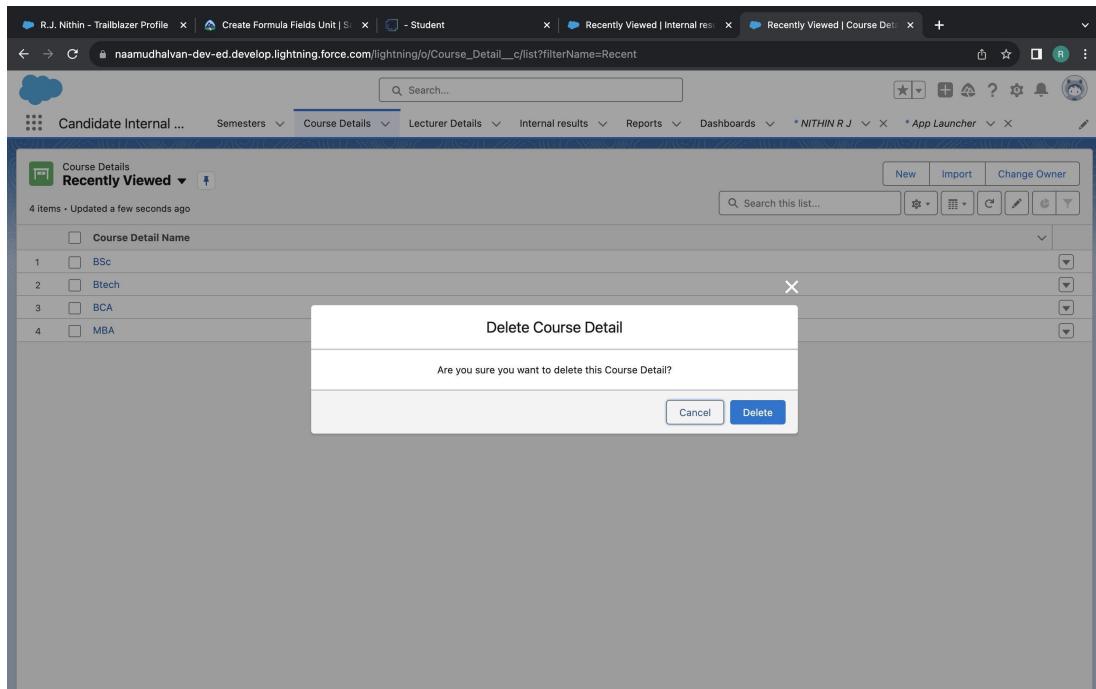
The screenshot shows the Salesforce Course Details page. The top navigation bar includes tabs for 'R.J. Nithin - Trailblazer Profile', 'Create Formula Fields Unit | S', '- Student', 'Recently Viewed | Internal res...', 'Recently Viewed | Course Det...', and a search bar. The main content area features a header with a cloud icon, a search bar, and various icons for help, refresh, and more.

The main panel displays the 'Recently Viewed' section under 'Course Details'. It shows a list of 4 items, all labeled 'Course Detail Name' and each preceded by a checkbox. The items are:

- 1 BSc
- 2 Btech
- 3 BCA
- 4 MBA

On the right side of the list are edit, delete, and other action buttons. At the top right of the main panel are buttons for 'New', 'Import', and 'Change Owner'. Below the list is a search bar with placeholder text 'Search this list...' and a set of filter and sort icons.

Step 9 : Delete Record (Course Detail, Lecturer Detail)



Stepn10 : Create and View Report

The screenshot shows the Salesforce Reports page. The top navigation bar includes tabs for 'Candidate Internal ...', 'Semesters', 'Course Details', 'Lecturer Details', 'Internal results', 'Reports' (which is the active tab), and 'Dashboards'. Below the navigation is a search bar and a toolbar with icons for star, plus, question mark, gear, and bell. A sidebar on the left lists categories: 'Recent', 'FOLDERS', 'All Folders', 'Created by Me', 'Shared with Me', 'FAVORITES', and 'All Favorites'. The main content area displays a table of recent reports:

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	Candidate Internal Result Report		Private Reports	NITHIN R J	16/10/2023, 9:08 pm	
Created by Me	New Semesters with Course Detail Report		Private Reports	NITHIN R J	17/10/2023, 10:14 am	
Public Reports	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	18/10/2023, 12:19 pm	
All Reports						

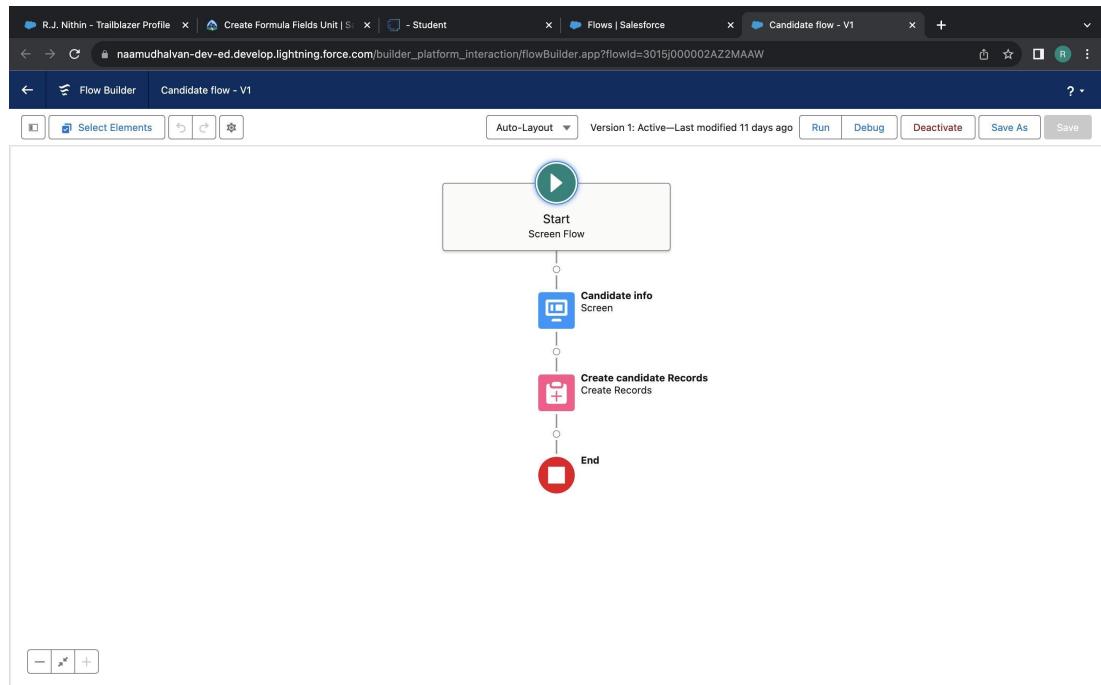
Step 11 : Create and view Dashboard

The screenshot shows the Salesforce Dashboards page. The top navigation bar includes tabs for 'Candidate Internal ...', 'Semesters', 'Course Details', 'Lecturer Details', 'Internal results', 'Reports', 'Dashboards' (active tab), and 'App Launcher'. Below the navigation is a search bar and a toolbar with icons for star, plus, question mark, gear, and bell. A sidebar on the left lists categories: 'Dashboards', 'Recent', 'FOLDERS', 'All Folders', 'Created by Me', 'Shared with Me', 'FAVORITES', and 'All Favorites'. The main content area displays a table of recent dashboards:

DASHBOARDS	Dashboard Name	Description	Folder	Created By	Created On	Subscribed
Recent	Candidate board		Private Dashboards	NITHIN R J	21/10/2023, 1:13 am	
Created by Me	Internal results		Private Dashboards	NITHIN R J	17/10/2023, 10:27 am	
Private Dashboards	Internal results		Private Dashboards	NITHIN R J	17/10/2023, 10:24 am	
All Dashboards	Course Details		Private Dashboards	NITHIN R J	17/10/2023, 10:16 am	
FOLDERS	Candidate Internal Result Card		Private Dashboards	NITHIN R J	16/10/2023, 9:10 pm	
All Folders	dddd		Private Dashboards	NITHIN R J	6/10/2023, 12:08 pm	

A context menu is open over the last row ('dddd') with options: 'View', 'Edit', 'Subscribe', 'Delete', 'Favorite', and 'Move'.

Step 12 : Create a Flow



Step 13 : Create a Apex Class and Apex Trigger

The screenshot shows the Salesforce Developer Console. The top navigation bar includes 'File', 'Edit', 'Debug', 'Test', 'Workspace', 'Help', and 'Logs'. The current page is 'InternalmarksHandler.apxc'. The code editor contains the following Apex class:

```
1 public class InternalmarksHandler {
2     public static void beforeinsert(list<Internal_results__c> newlist){
3
4
5         for(Internal_results__c internalmarks : newlist){
6             if(internalmarks != null){
7                 internalmarks.
8             }
9         }
10    }else{
11        internalmarks.
12    }
13
14    internalmarks.
15
16
17
18
19
20
21
22 }
```

A modal window titled 'Open' is displayed over the code editor, showing a list of entity types: Classes, Triggers, Pages, Page Components, Objects, Static Resources, and Packages. The 'Triggers' item is selected. The bottom of the screen shows the 'Logs' tab and a log table with columns: User, Application, Operation, Time, Status, Read, and Size.

R.J. Nithin - Trailblazer Profile | Create Formula Fields Unit | Student | Flows | Salesforce | Developer Console

naamudhalvan-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

InternalmarksHandler.apc * □

Code Coverage: None API Version: 59 ▾ Go To

```
1 public class InternalmarksHandler {  
2     public static void beforeinsert(list<Internal_results__c> newlist){  
3  
4  
5         for(Internal_results__c internalmarks : newlist){  
6             if(internalmarks.  
7                 internalmarks.  
8             }else{  
9                 internalmarks.  
10            }  
11        }  
12    }  
13  
14    }  
15  
16    }  
17  
18  
19    }  
20  
21  
22 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

User Application Operation Time Status Read Size

Filter Click here to filter the log list

Open Entity Type Entities Related
Entity Type Name Namespace Name Extent Direction
Classes UpdateStatusOnMarks ← Internal res... SObject References
Triggers Internalmarks
Pages Page Components
Objects Objects
Static Resources Static Resources
Packages Packages

