

NAAN MUDHALVAN

SALESFORCE PROJECT REPORT

COLLEGE : PONJESLY COLLEGE OF ENGINEERING

BATCH-16

| NAME | NM ID | REG NO |
|-----------------|----------------------------------|---------------|
| KRISHNA KAMAL.M | 4A5402740EA697FA5084C61990561A7F | 961820114315 |

Step 1: Create a Salesforce Account

The screenshot shows a Salesforce user profile for 'KRISHNA KAMAL M'. The top navigation bar includes links for Sales, Home, Opportunities, Leads, Tasks, Files, Accounts, Contacts, Campaigns, Dashboards, Reports, Chatter, People, and More. The main content area features a cartoon landscape background with mountains and a hot air balloon. On the left, there's a circular profile picture of a blue bear-like character, a 'Share your awesomeness' button, and a Trailhead badge. The 'Details' section contains fields for Name (KRISHNA KAMAL M), Title (Manager), Company Name (Ponjesly College of Engineering), Email (krishnakamal0007@gmail.com), and Address (IN). The 'Related' section shows 'Groups (0)' and 'Files (0)'. A small note at the bottom left says 'javascript:void(0);'.

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

The screenshot shows the Salesforce Object Manager. The top navigation bar includes links for Setup, Home, and Object Manager. The main content area displays a table titled 'Object Manager' with one item listed: 'Semester' (API Name: semester__c, Type: Custom Object). The table has columns for Label, API Name, Type, Description, Last Modified (16/10/2023), and Deployed (checkmark). A search bar at the top right shows 'sem'.

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 overall layout. The main difference is the search term in the search bar, which now reads 'course'.

The main content area displays the same table with one 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 displays 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 displays 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 page title is 'Internal result'. The left sidebar shows various setup categories like Page Layouts, Lightning Record Pages, Buttons, etc. The main content area is titled 'Fields & Relationships' and lists 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 Salesforce Lightning interface showing the creation of a new 'Semester' record.

The page title is 'Candidate Internal ...'. 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'. The required field 'semester Name' is highlighted with a red asterisk. The 'Owner' field is populated with 'NITHIN R J'. Other fields include 'Semester Name' and 'Course Detail' with a search bar.

Buttons at the bottom of the modal include 'Cancel', 'Save & New', and 'Save'.

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

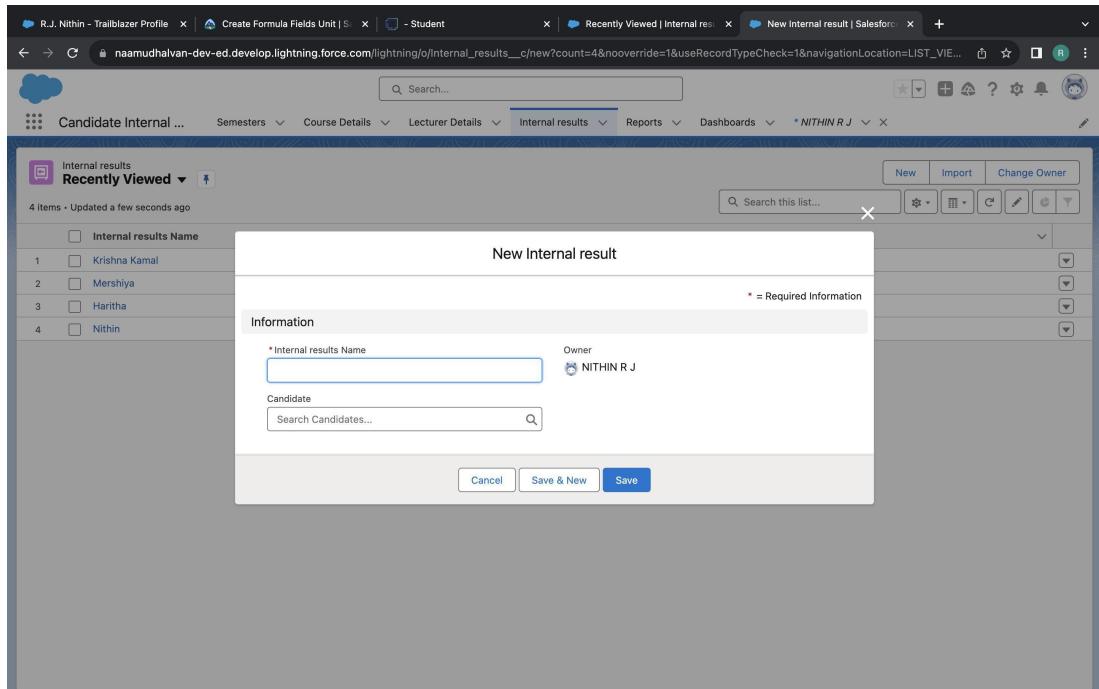
* Lecturer Detail Name Owner NITHIN R J

Lecturer Name

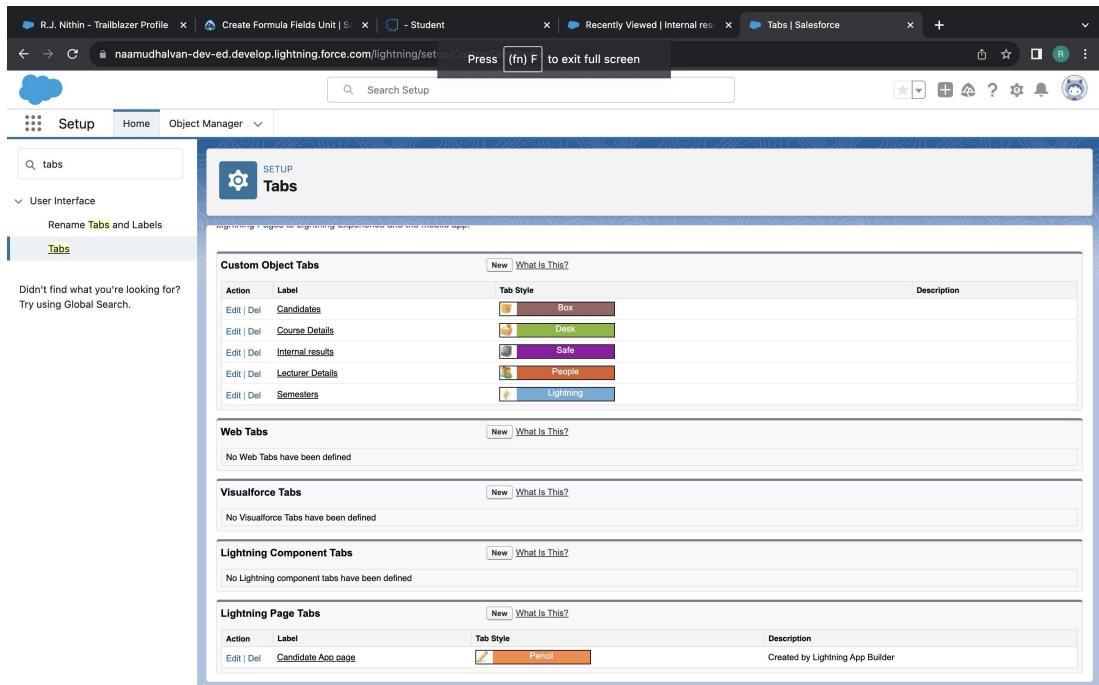
Lecturer Role

Course Detail Search Course Details...

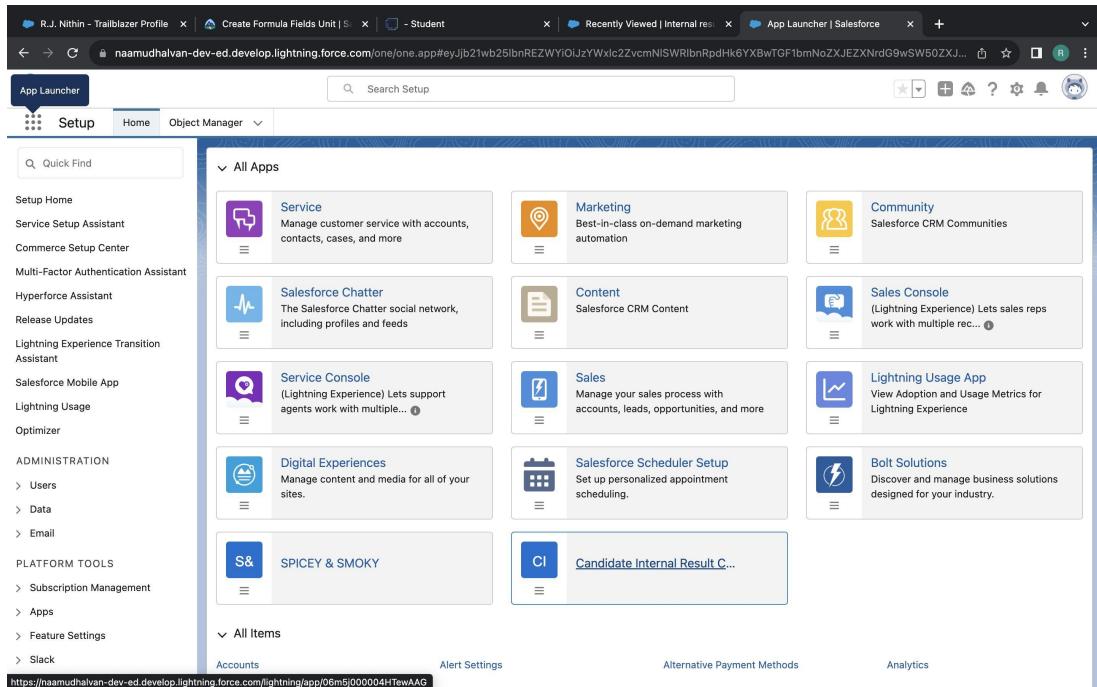
Cancel Save & New Save



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



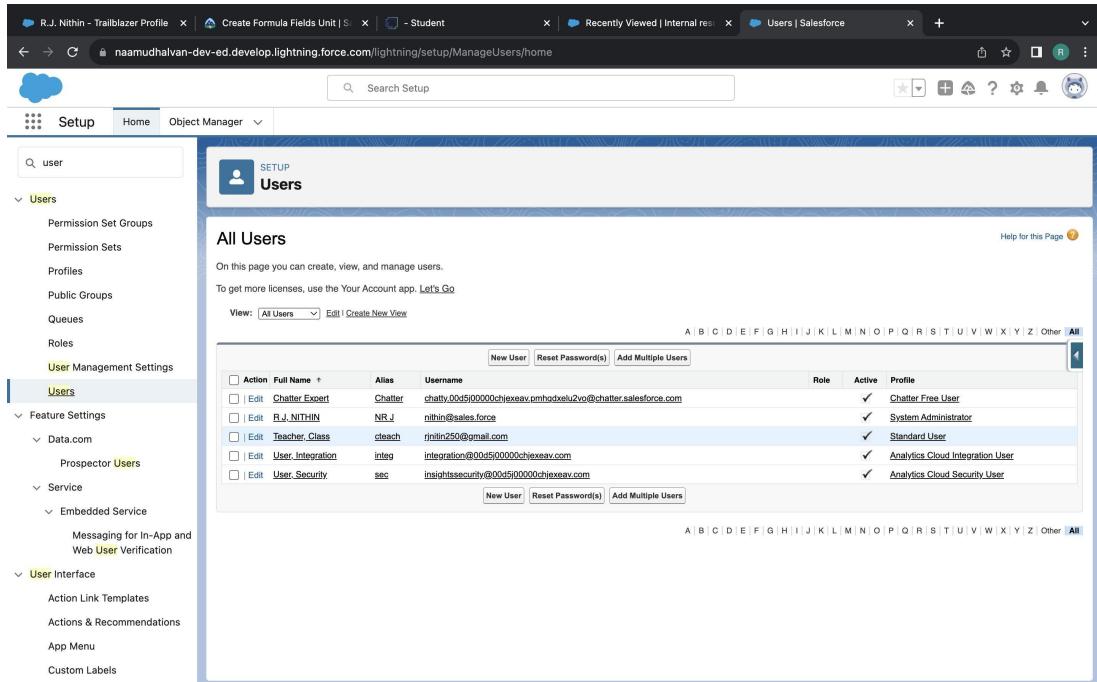
Step 5 :Create a Lightning App



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 content 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)

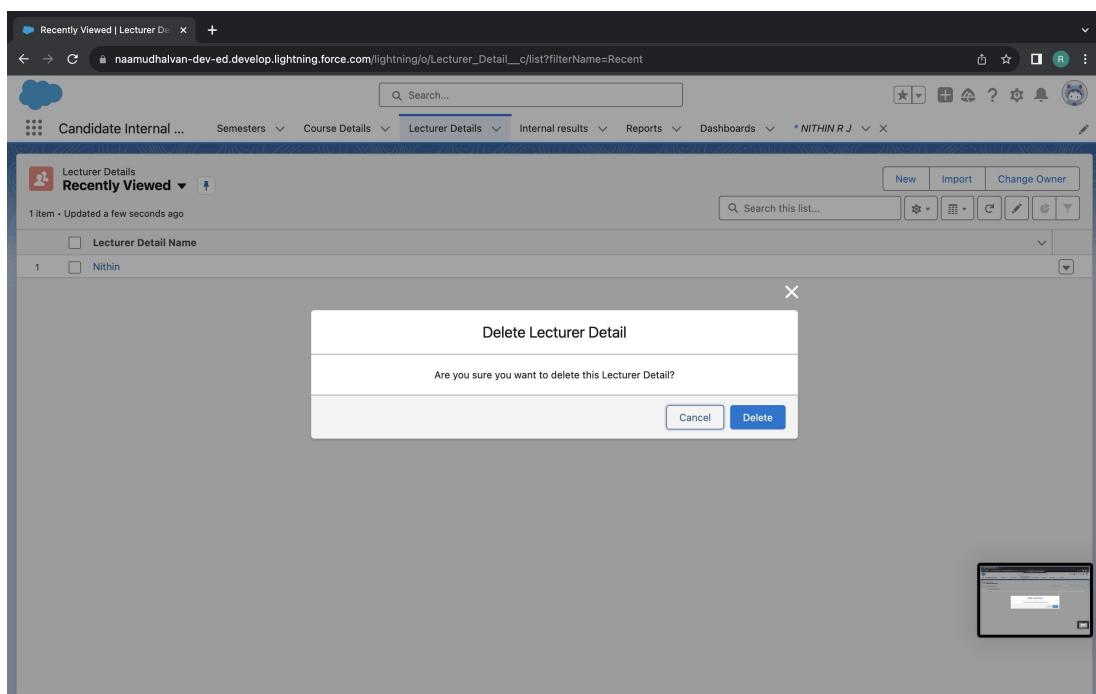
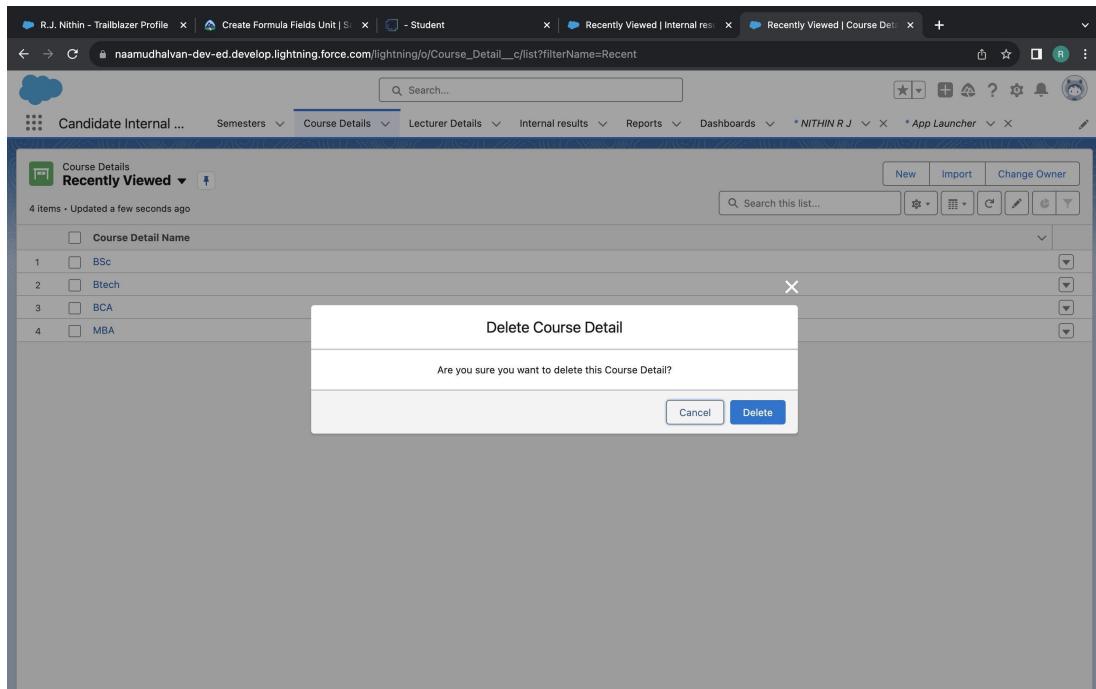
The screenshot shows the Salesforce Course Details page. The top navigation bar includes tabs for 'R.J. Nithin - Trailblazer Profile', 'Create Formula Fields Unit | S', '- Student', 'Recently Viewed | Internal res...', 'Recently Viewed | Course Det...', and a search bar. The main content area features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

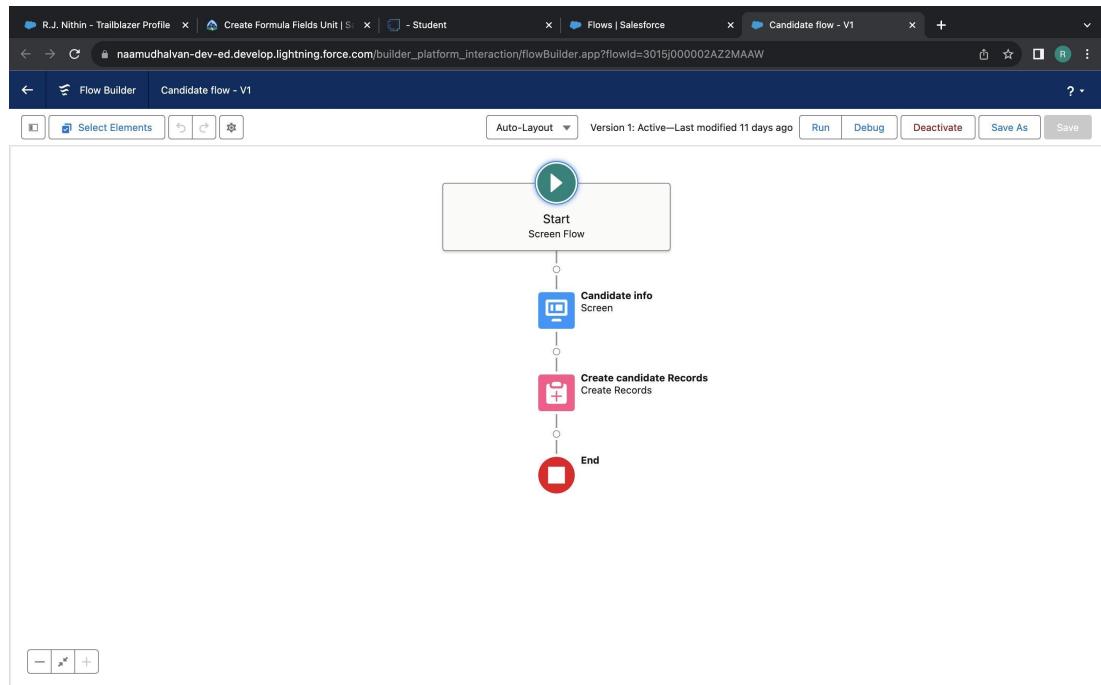
Step 11 : Create and view Dashboard

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 code:

```
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 }
```

Open Entity Type Entities Related

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

Open Filter Filter the repository (* = any string) Hide Managed Packages Refresh

Logs Tests Checkpoints Query Editor View State Progress Problems

| User | Application | Operation | Time | Status | Read | Size |
|------|-------------|-----------|------|--------|------|------|
| | | | | | | |

Filter Click here to filter the log list

