

**Project Report on**  
**Build an Employee Travel Approval Application For Corporate**  
**(Developer) – (Long Term)**

**Milestone – 01 : Create Salesforce Org**

Go to [developer.salesforce.com/Signup](https://developer.salesforce.com/signup)

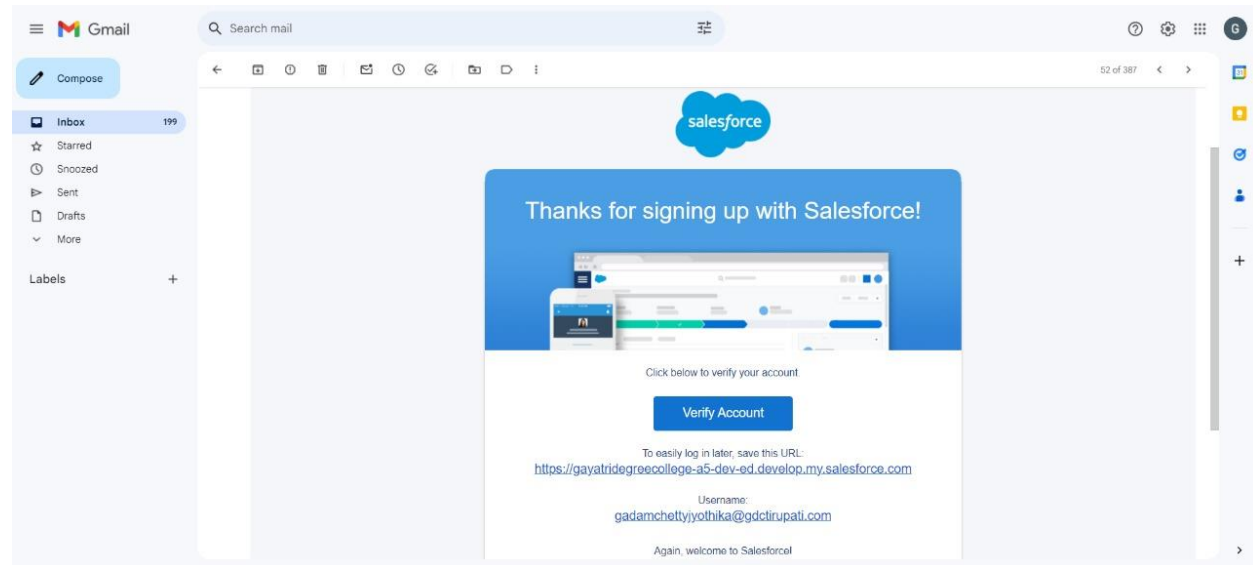
Click on Sign up.

On the sign-up form, enter the following details:

1. First Name & Last Name – G.Jyothika
2. Email – gadamchettyjyothika@gmail.com
3. Role – Developer
4. Company – GAYATRI DEGREE COLLEGE – TIRUPATI
5. Country – India
6. Postal Code – 517501
7. Username - gadamchettyjyothika@gdctirupati.com

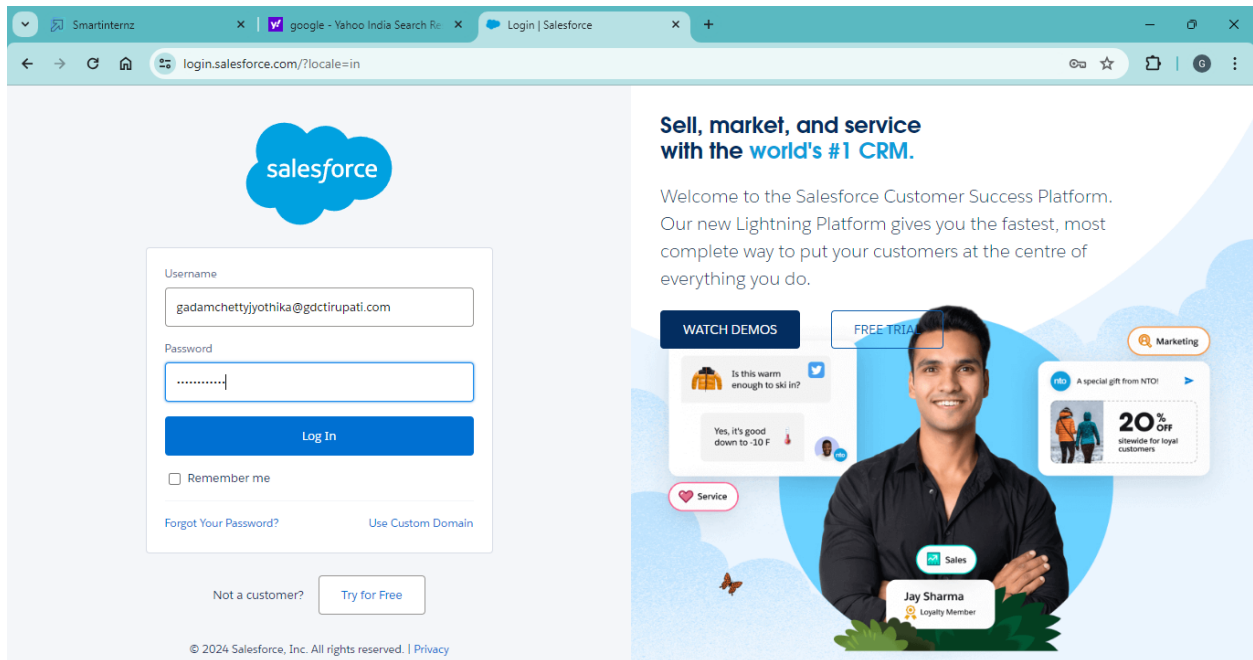
**Account Activation**

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 min, as



**Log in to your Salesforce Account**

1. Go to [salesforce.com](https://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.



## Milestone – 02 : Objects in Salesforce

Salesforce objects are database tables that permit you to store data that is specific to an organization. Salesforce objects are of two types: Standard Objects: Standard objects are the kind of objects that are provided by salesforce.com such as users, contracts, reports, dashboards, etc.

### 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.

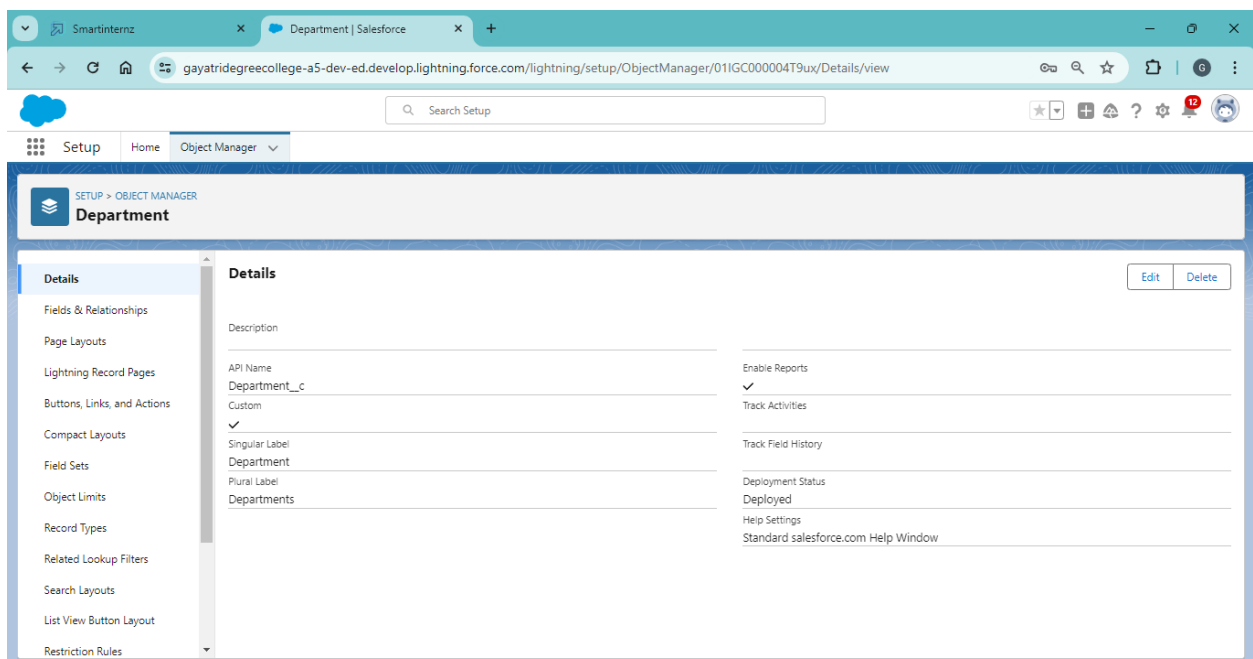
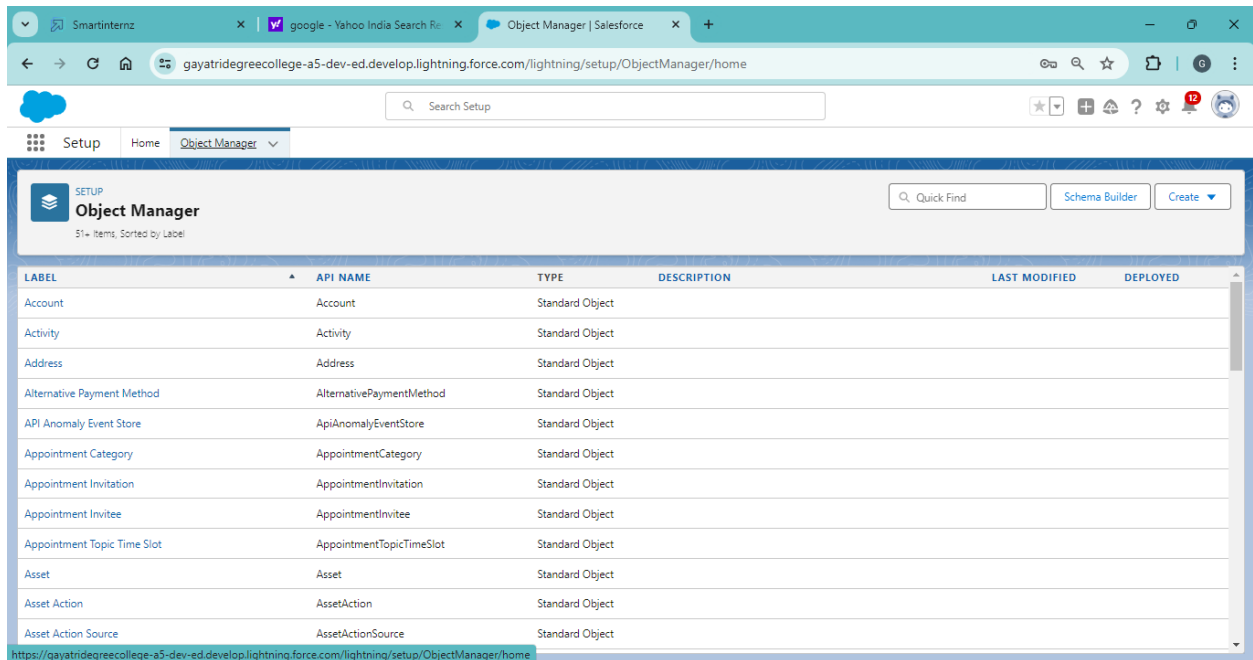
### Creation Of Department Object For Travel Approval App

For this Travel Approval we need to create 5 objects **Department, Employee Detail, Expense, Expense Items, and Travel Approval**. The below steps will assist you in creating those objects.

#### Create Department Object:

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 in the extreme right you will find a Create Dropdown Click on that and select Custom Object.

4. On the Custom Object Definition page, create the object as follows:
5. Label : Department
6. Plural Label : Departments
7. Record Name : Department Name
8. Check the Allow Reports checkbox
9. Check the Allow Search checkbox
10. Click Save.



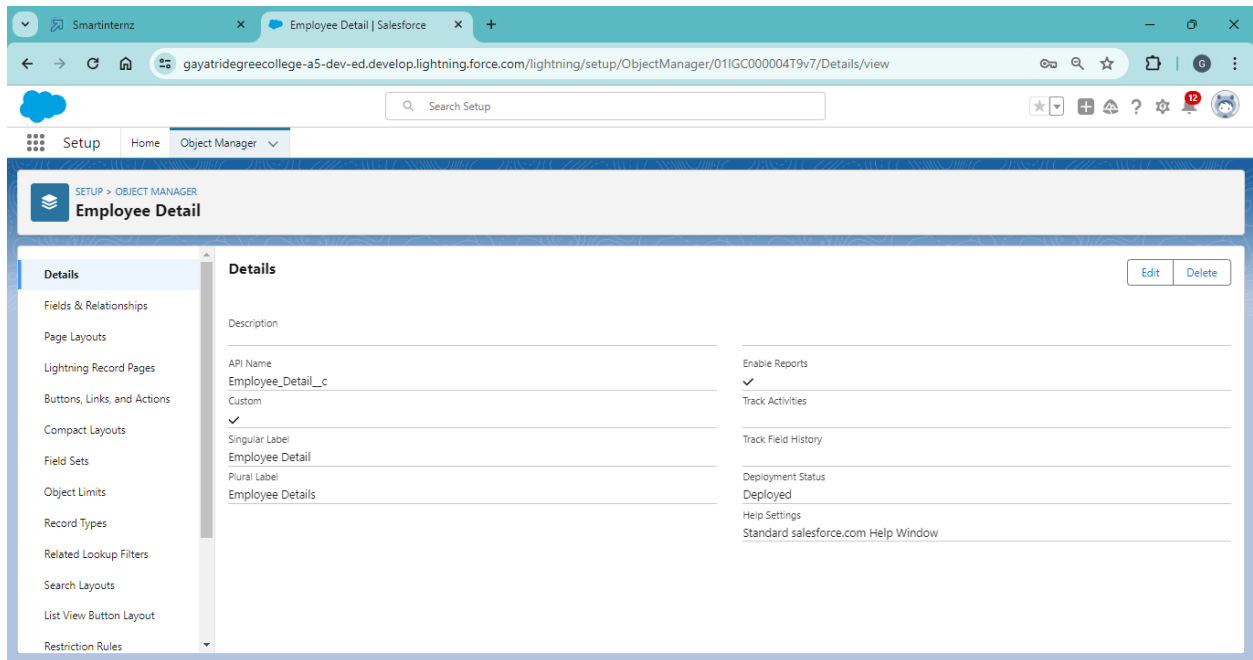
In the same way create 4 more objects Employee Detail, Expense , Expense Items, and Travel Approval

**Note -**

1. While making Expense Object select data type “Auto Number” in “Enter Record Name Label and Format” Section.
2. While making Employee Detail Object put “Employee Name” in “Enter Record Name Label and Format” section.

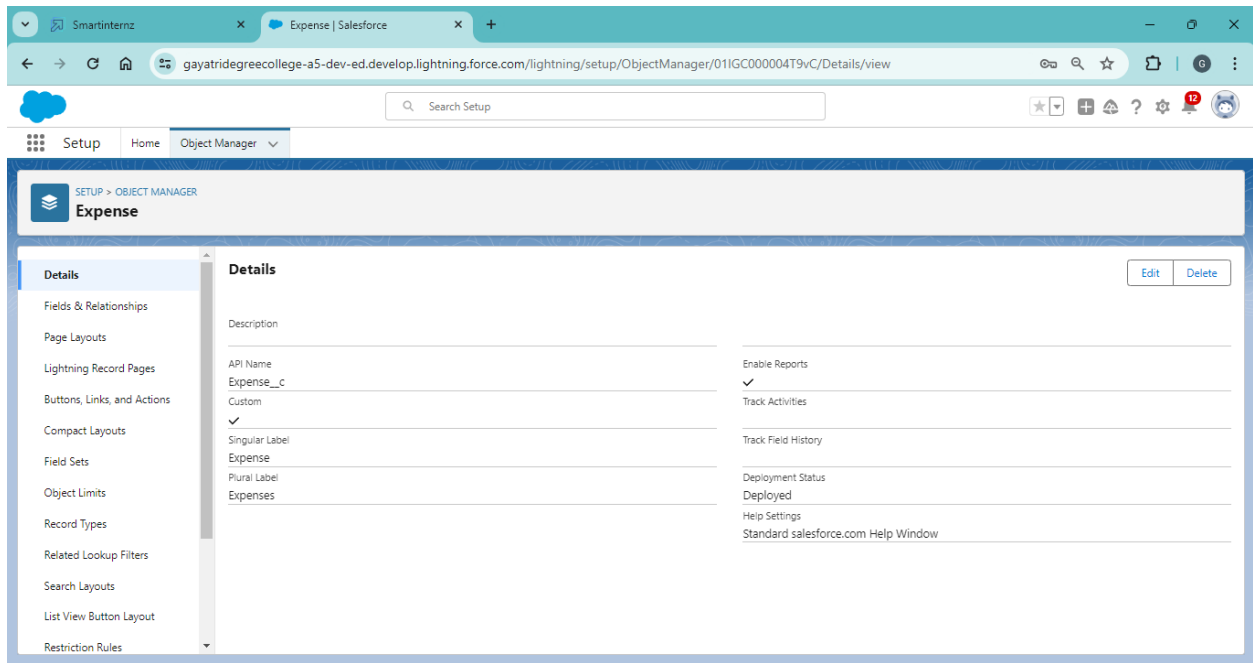
**Object – Employee Detail**

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



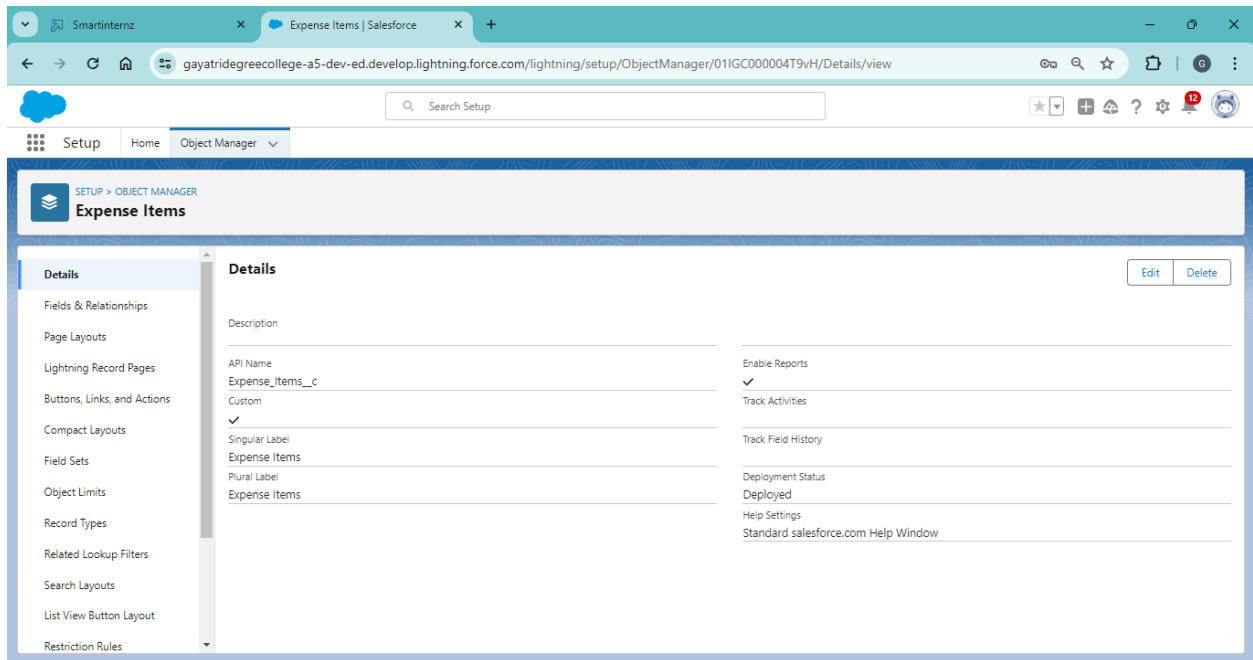
## Object – Employee Detail

1. Click on the gear icon and then select Setup.
2. Click in the object manager tab just beside the home tab.
3. After the above steps, have a look in the extreme right you will find a Create Dropdown Click on that and select Custom Object.
4. On the Custom Object Definition page, create the object as follows:
5. Label : Expense
6. Plural Label : Expenses
7. Record Name : Expense Name
8. Date type : Select **Auto Number**.
9. Display Format : A-{0000}
8. Check the Allow Reports checkbox
9. Check the Allow Search checkbox
10. Click Save.



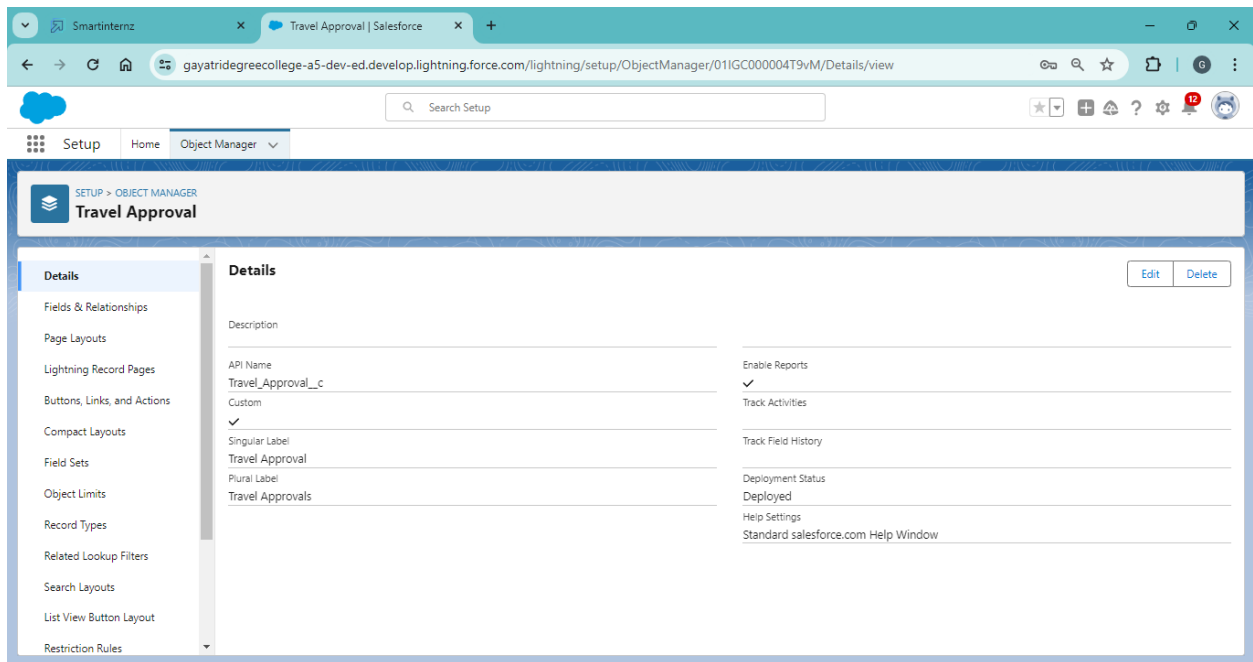
## Object – Expense Items

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



## Object – Travel Approval

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



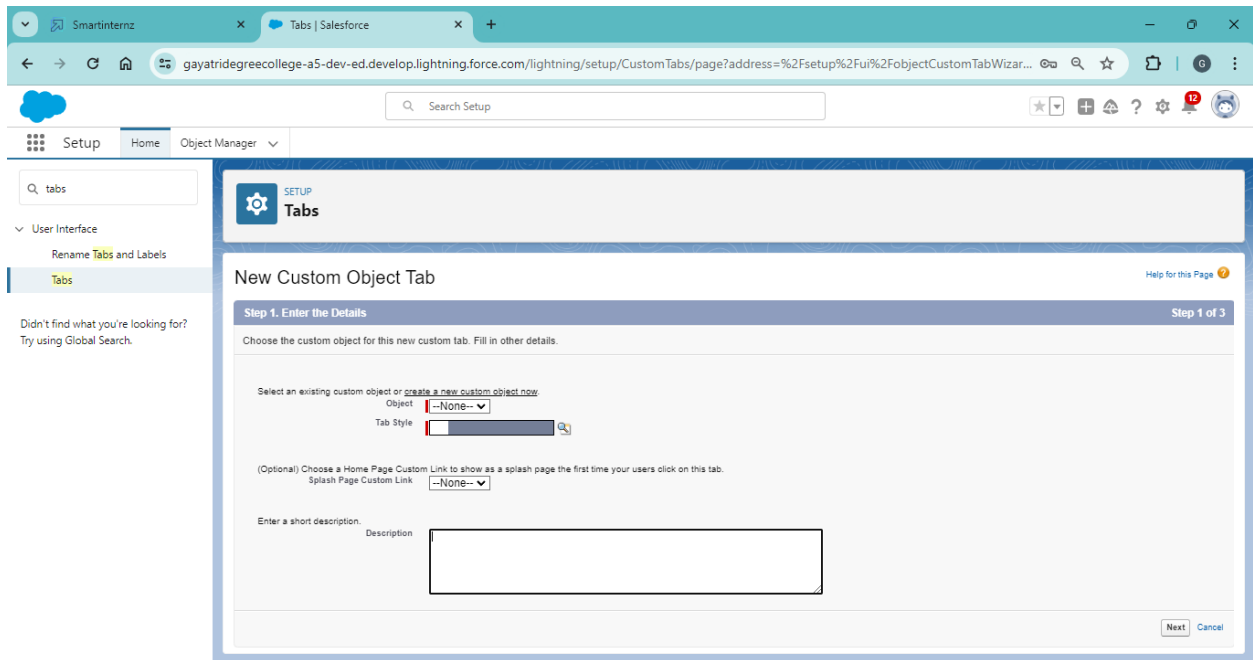
## Milestone – 03 : What is A Tab?

### Custom Tab Creation

Now create a custom tab. Click the Home tab,

1. Enter Tabs in Quick Find and select Tabs.
2. Under Custom Object Tabs, click New.
3. For Objects, select Departments.
4. For Tab Style, select any icon.
5. Leave all defaults as is. Click Next, Next, and Save.
6. In the same way create Tabs for all Custom Objects – Employee Detail, Expense, Expense Items, Travel Approval.

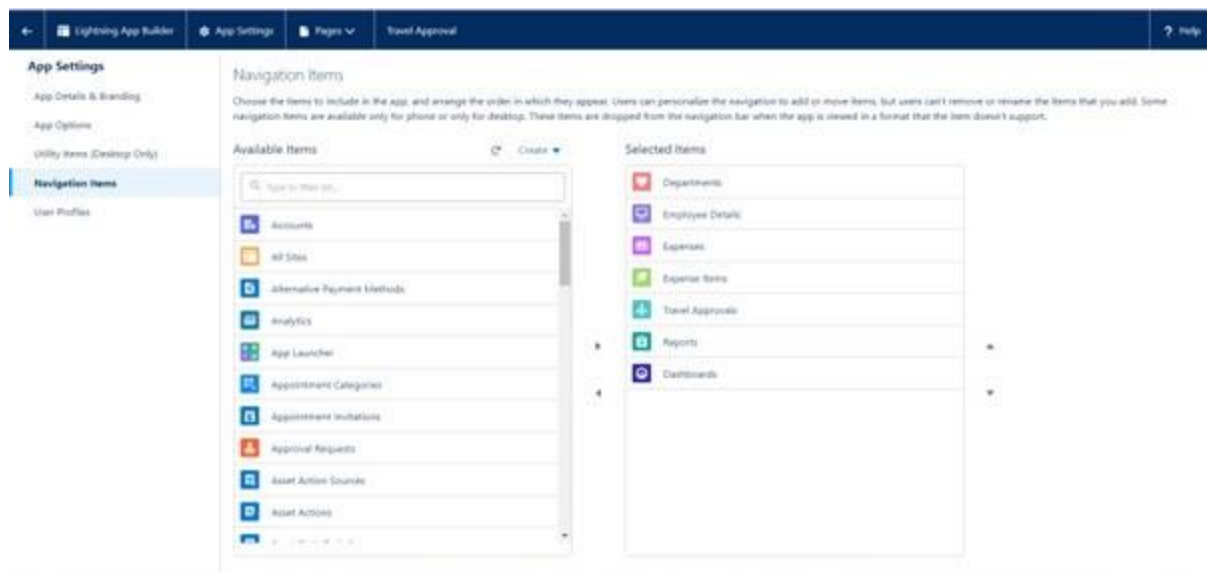
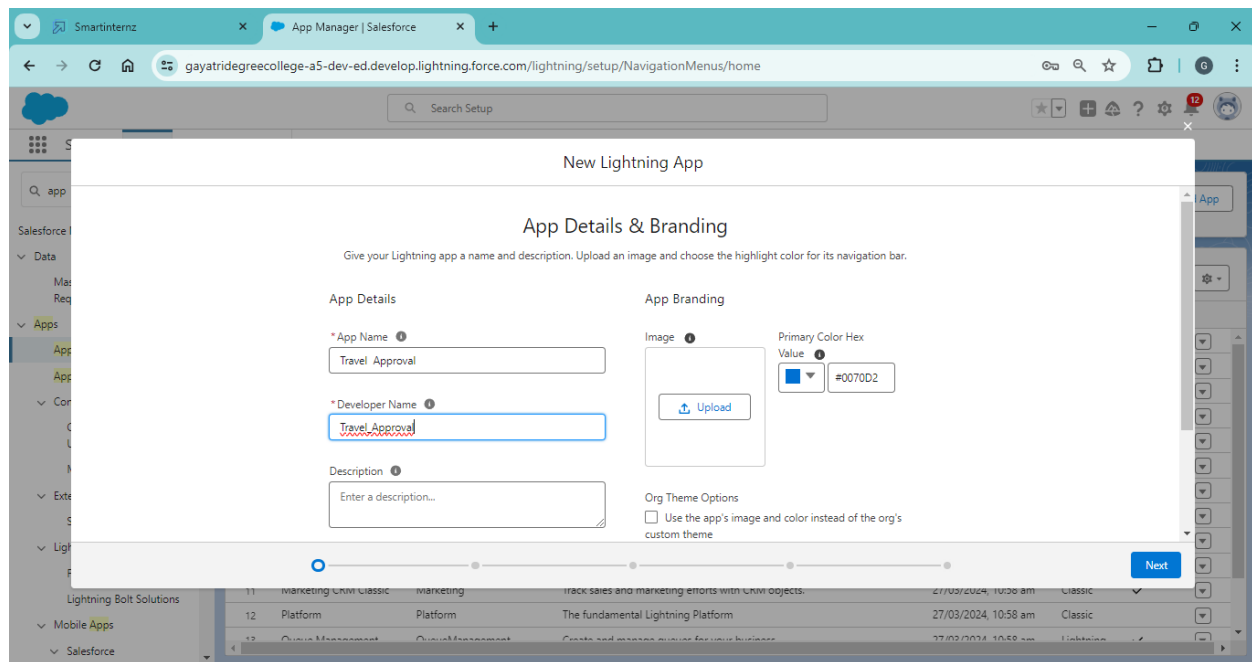




## Milestone – 04 :Lightning App

### Create the Travel Approval App

1. From Setup, enter App Manager in the Quick Find and select App Manager.
2. Click New Lightning App.
3. Enter **Travel Approval** 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 **Department, Approval, Reports, and Dashboards** and move them to Selected Items. Click Next.
7. From Available Profiles, select System Administrator and move it to Selected Profiles. Click Save & Finish.



To Verify your changes, click the App Launcher, type **Travel Approval** and select the **Travel Approval** app.

Note :

App Launcher-Displays available apps.

App Name -Displays the current selected app.

## Milestone – 05 : Fields and Relationship

Enrollment in local colleges, 2005

Object Name	Field Name	Data Type
<b>Employee Details</b>	Date of Birth	Date
	Gender	Picklist (Male, Female)
	Department	Lookup (Department)(See activity 2 to create lookup)
	Employee ID	Text (Length – 12)
<b>Expense</b>	Employee	Lookup (Employee Detail)
	Total Item	Rollup Summary (Expense Item)
<b>Expense Item</b>	Expense	Master Detail (Expense)
	Expense Type	Pick List (Values are – Transport, Hotel, Meal, Others)
	Amount	Currency
<b>Travel Approval</b>	Employee Name	Lookup (Employee Detail)
	Department	Lookup (Department)
	Destination State	Text (Length – 40)
	Purpose of Trip	Text (Length – 256)
	Trip Start Date	Date
	Trip End Date	Date
	Status	Picklist (values are – Approved Rejected)

## Creation of Field for the Department Object :

1. click the gear icon and select setup in a new tab.
2. Click the Object Manager tab next to Home.
3. Select Department
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 Department code and enter 5 in Length.
8. Click Next, Next, then Save & New.

The screenshot shows the Salesforce Setup interface for creating a custom field for the Department object. The browser address bar shows the URL: `gayatriegreecollege-a5-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01IGC000004T9ux/FieldsAndRelationships/00NGC0000...`. The page title is "Department Custom Field Department Code". The left sidebar shows the navigation menu with "Fields & Relationships" selected. The main content area displays the "Custom Field Definition Detail" for the field "Department Code".

Field Information	
Field Label	Department Code
Field Name	Department_Code
API Name	Department_Code__c
Description	
Help Text	
Data Owner	
Field Usage	
Data Sensitivity Level	
Compliance Categorization	
Created By	Gadamothev_jyothika, 08/04/2024, 2:40 pm
Modified By	Gadamothev_jyothika, 08/04/2024, 2:40 pm

General Options	
Required	<input type="checkbox"/>
Unique	<input type="checkbox"/>
Case Sensitive	<input type="checkbox"/>
External ID	<input type="checkbox"/>
Default Value	

## Creation of Fields for the Department 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 Department.
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 District and State code and enter 40 in Length.

8. Click Next, Next, then Save.

The screenshot shows the Salesforce Setup interface for a custom field named 'District' on the 'Department' object. The browser address bar shows the URL: `gayatridgecollege-a5-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01IGC000004T9ux/FieldsAndRelationships/00NGC0000...`. The left sidebar contains a navigation menu with options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, and Restriction Rules. The main content area is titled 'Department Custom Field District' and includes a 'Back to Department' link. Below this is the 'Custom Field Definition Detail' section with tabs for 'Edit', 'Set Field-Level Security', 'View Field Accessibility', and 'Where is this used?'. The 'Field Information' table lists the following details: Field Label (District), Field Name (District), Object Name (Department), API Name (District\_\_c), Data Type (Text), Description, Help Text, Data Owner, Field Usage, Data Sensitivity Level, Compliance Categorization, Created By (Gadamschethu\_jyothika, 08/04/2024, 2:41 pm), and Modified By (Gadamschethu\_jyothika, 08/04/2024, 2:41 pm). The 'General Options' section includes checkboxes for Required, Unique, Case Sensitive, External ID, and Default Value.

The screenshot shows the Salesforce Setup interface for a custom field named 'State' on the 'Department' object. The browser address bar shows the URL: `gayatridgecollege-a5-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01IGC000004T9ux/FieldsAndRelationships/00NGC0000...`. The left sidebar contains a navigation menu with options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, and Restriction Rules. The main content area is titled 'Department Custom Field State' and includes a 'Back to Department' link. Below this is the 'Custom Field Definition Detail' section with tabs for 'Edit', 'Set Field-Level Security', 'View Field Accessibility', and 'Where is this used?'. The 'Field Information' table lists the following details: Field Label (State), Field Name (State), Object Name (Department), API Name (State\_\_c), Data Type (Text), Description, Help Text, Data Owner, Field Usage, Data Sensitivity Level, Compliance Categorization, Created By (Gadamschethu\_jyothika, 08/04/2024, 2:42 pm), and Modified By (Gadamschethu\_jyothika, 08/04/2024, 2:42 pm). The 'General Options' section includes checkboxes for Required, Unique, Case Sensitive, External ID, and Default Value.

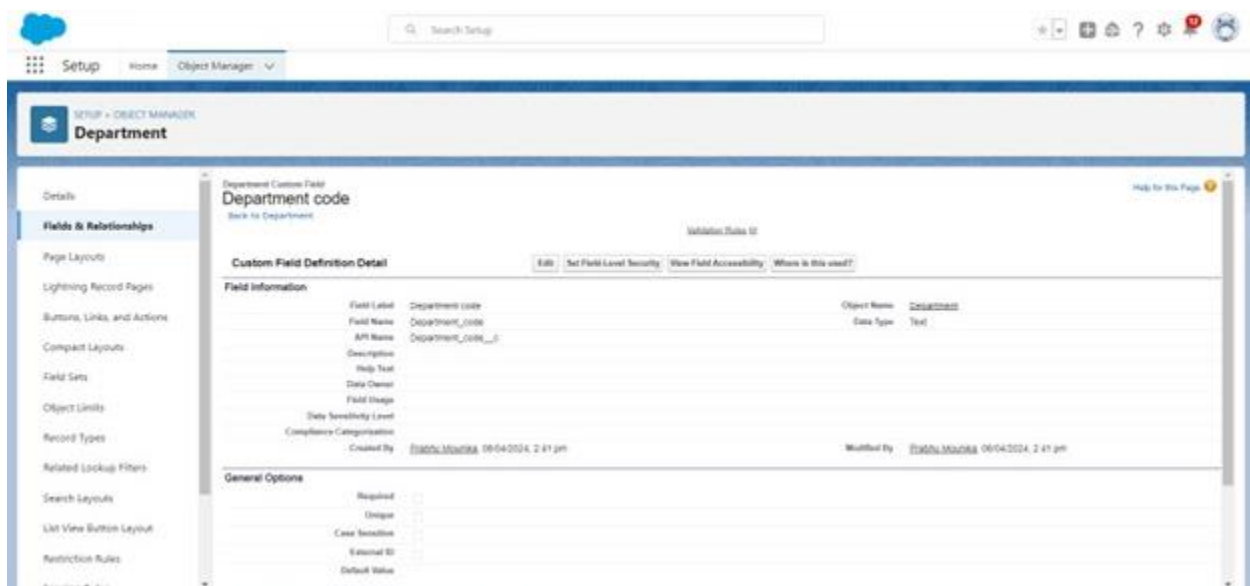
## Lookup Relationship with Department

Let's create a Lookup relationships with Department object on Employee Detail onobject

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 Department.
4. Select Fields & Relationships from the left navigation
5. Click new.
6. Select look up Relationship as the Data type and click Next.
7. For Related to, enter Department .
8. Click Next.
9. For Field Label, enter Department.
10. Click Next, Next, Next and Save.



Let's create a master-detail relationship on Expense Item 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 Department.
4. Select Fields & Relationships from the left navigation
5. Click new.
6. Select Master-Details Relationship as the Data Type and click Next.
7. For Related to, enter Expense.
8. Click Next.

9. For Field Label, enter Expense.

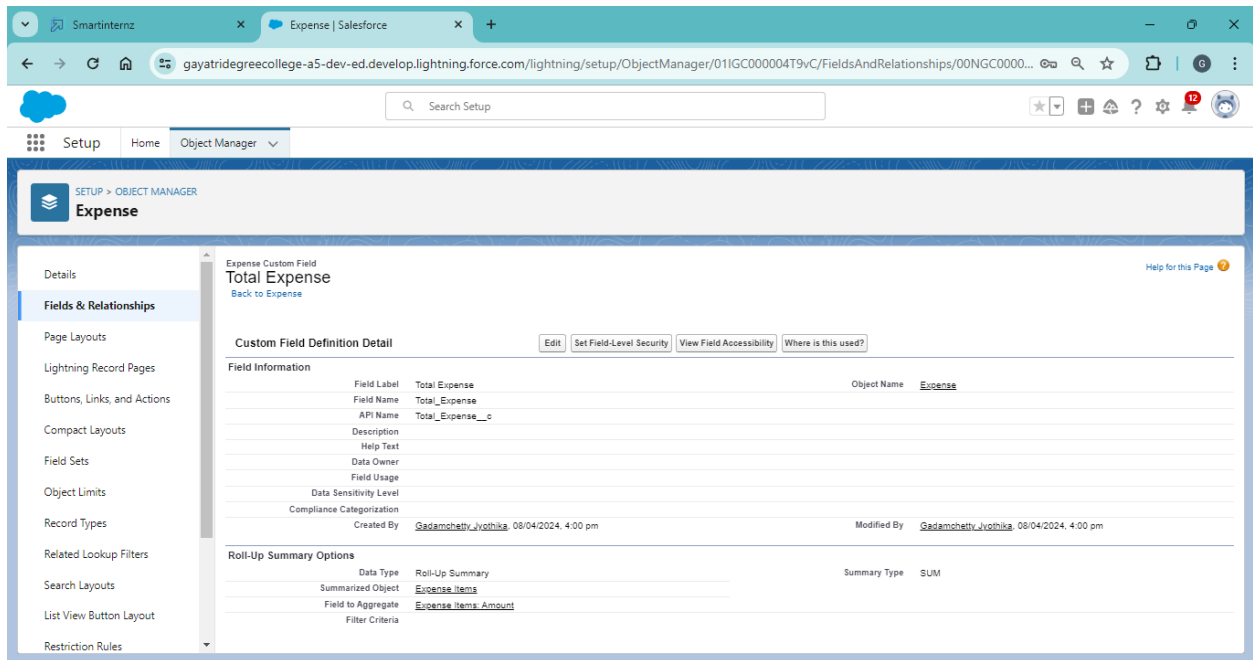
10. Click Next, Next, Next and Save.

The screenshot shows the Salesforce Setup interface for the 'Expense Items' custom field. The left sidebar contains a navigation menu with options: Details, Fields & Relationships (selected), 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, and Restriction Rules. The main content area is titled 'Expense Items Custom Field' and 'Expense'. It includes a 'Back to Expense Items' link and a 'Validation Rules' link. Below this is the 'Custom Field Definition Detail' section with tabs for 'Edit', 'Set Field-Level Security', 'View Field Accessibility', and 'Where is this used?'. The 'Field Information' table lists: Field Label (Expense), Field Name (Expense), Object Name (Expense Items), API Name (Expense\_\_c), Data Type (Master-Detail), Description, Help Text, Data Owner, Field Usage, Data Sensitivity Level, Compliance Categorization, Created By (Gadambethy, jyothisa, 08/04/2024, 3:19 pm), and Modified By (Gadambethy, jyothisa, 08/04/2024, 3:19 pm). The 'Master-Detail Options' section shows: Related To (Expense), Related List Label (Expense Items), Child Relationship Name (Expense\_Items), Sharing Setting (Read/Write: Allows users with at least Read/Write access to the Master record to create, edit, or delete related Detail records.), Reparentable Master Detail (unchecked), and Lookup Filter.

## Roll Up Summary Fields On Expense Object

Let's create Roll-up summary fields on Expense object to Calculate the expense

1. Click the gear icon Select Setup, This launches Setup in a new tab.
2. Click Object Manager.
3. Select Expense.
4. Click Fields & Relationships
5. Click New.
6. Select the Roll-up summary field as the data type Enter the field label as Total Expense.
7. Click Next.
8. Then select the master object summarized as expense items.
9. Select Sum as roll-up and Field to aggregate Amount then click Next, Next and save.

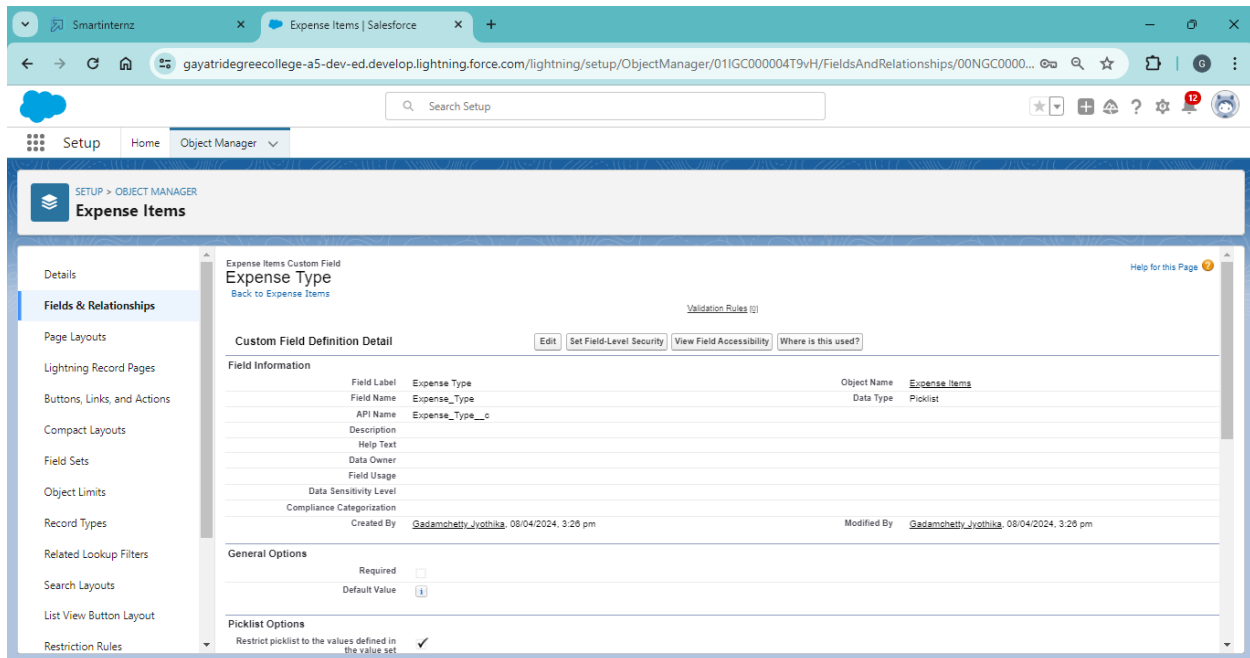


## Pick List Field

**Let's create a Pick-List field:**

1. From Setup, click Object Manager and select Expense Item.
2. Click Fields & Relationships, then New.
3. Select Picklist as the Data Type and Click Next.
4. For Field Label enter Expense Type
5. Select Enter values, with each value separated by a new line, and enter these values:
  - Transport
  - Hotel
  - Meal
  - Others
6. Click Next, Next, then Save & New.





## Milestone – 06 : Import Departments

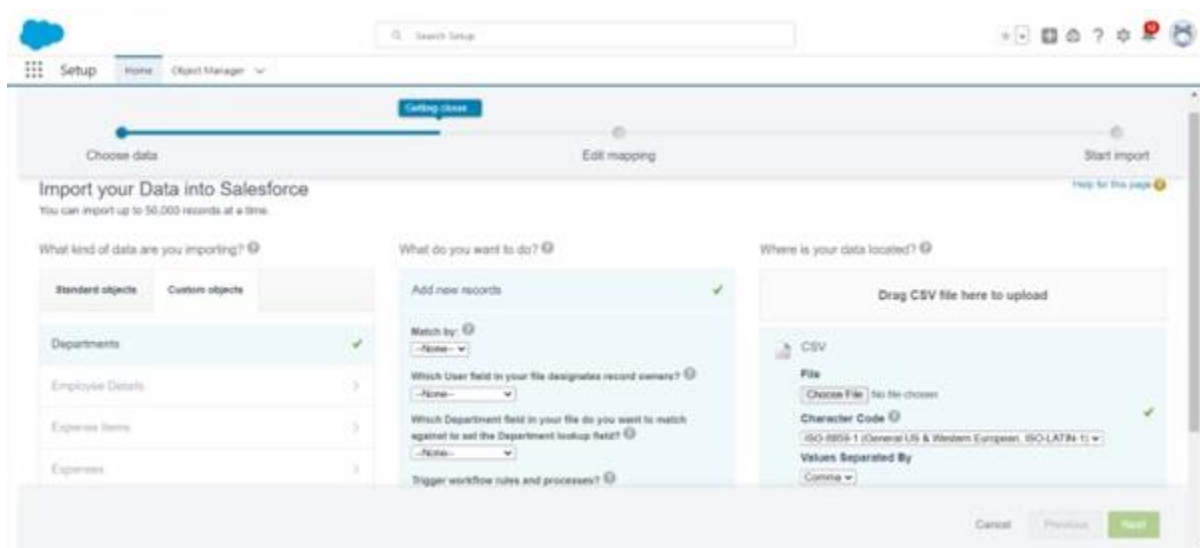
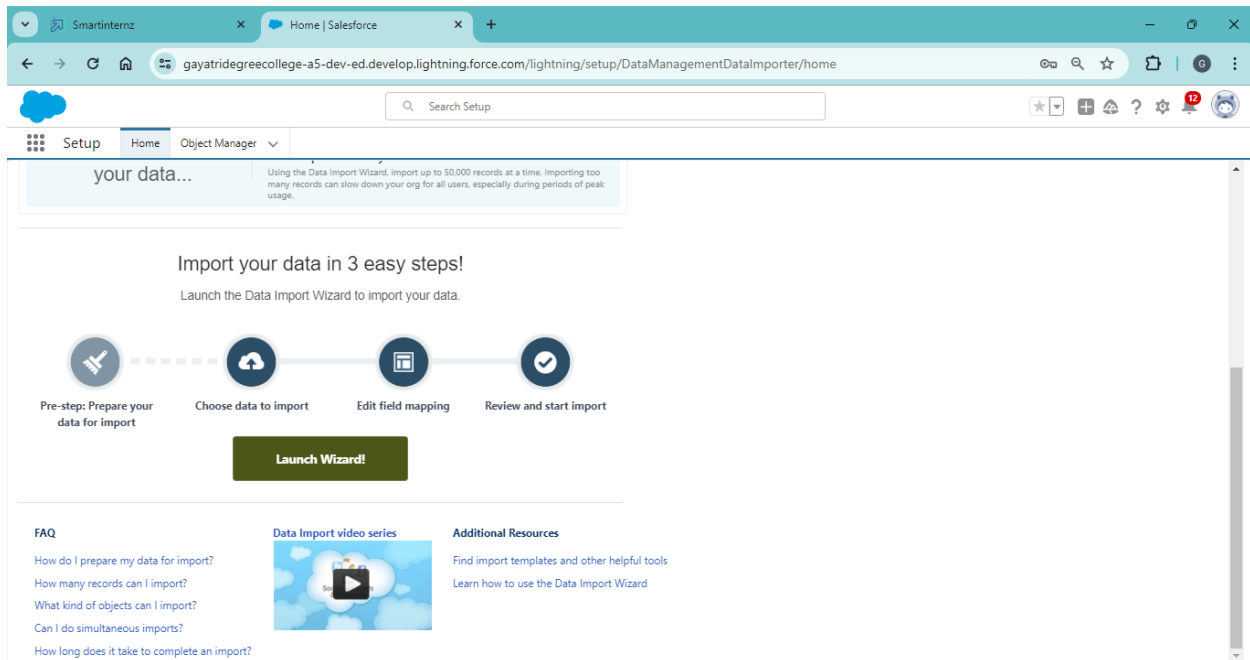
### Data Import :

1. From Setup, click the Home Tab.
2. In the Quick Find box, enter Data Import and select Data Import Wizard.
3. Click Launch Wizard.
4. Click the Custom Objects tab and select the Departments object.
5. Select the Add new records.
6. Click CSV and choose file Department\_CSV which we made earlier. Click Next.
7. Since the field names in the CSV file (CSV Header) are the same as the field names in your object (Mapped Salesforce Object), the fields are automatically Mapped click Next.
8. The next screen gives you a summary of your data import.
9. Click Start Import.
10. Click Ok on the popup.

**Note** – Do Field mapping carefully.

### Department CSV File

<https://developer.salesforce.com/files/TravelAppWorkshopFiles.zip>



## Milestone – 07 : Users

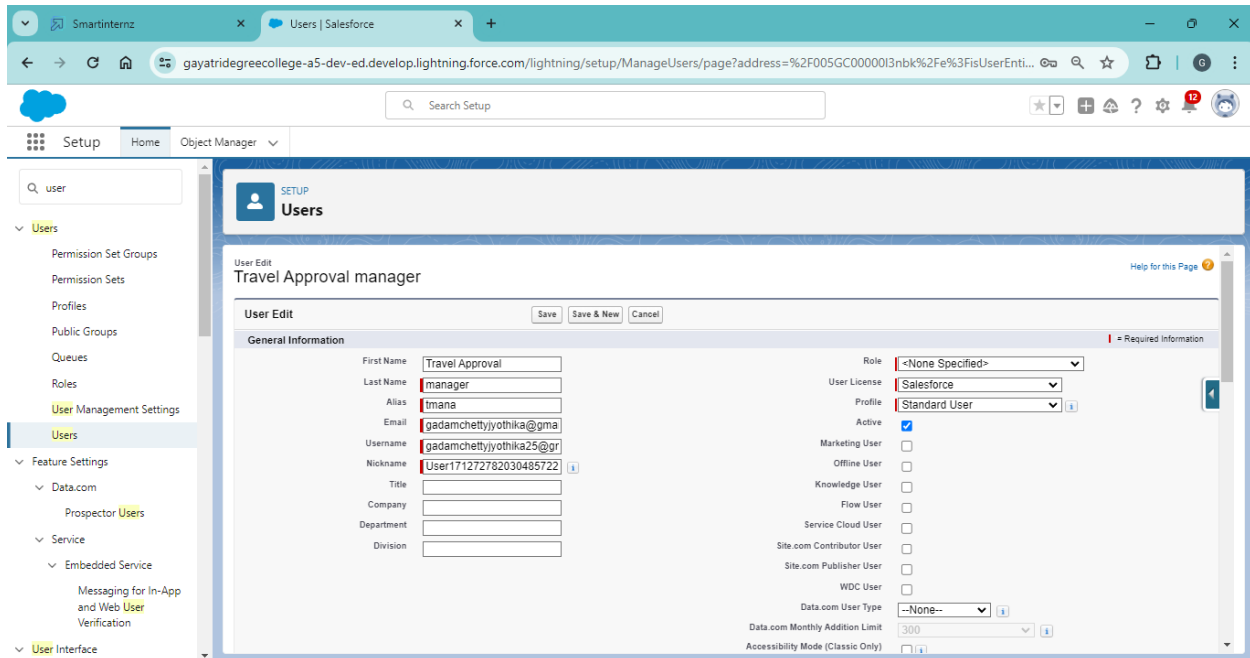
### Creating A User In Salesforce

1. From Setup, in the Quick Find Box, enter Users.
2. Select Users.
3. Click New User.
4. Enter the First Name Travel Approval and Last Name manager 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** – In the Developer edition Salesforce license can only be used by 2 users at a time in Dev Org, If you don't find Salesforce licence than deactivate a user who has Salesforce license Or change the license typr 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 a temporary password emailed to you email.

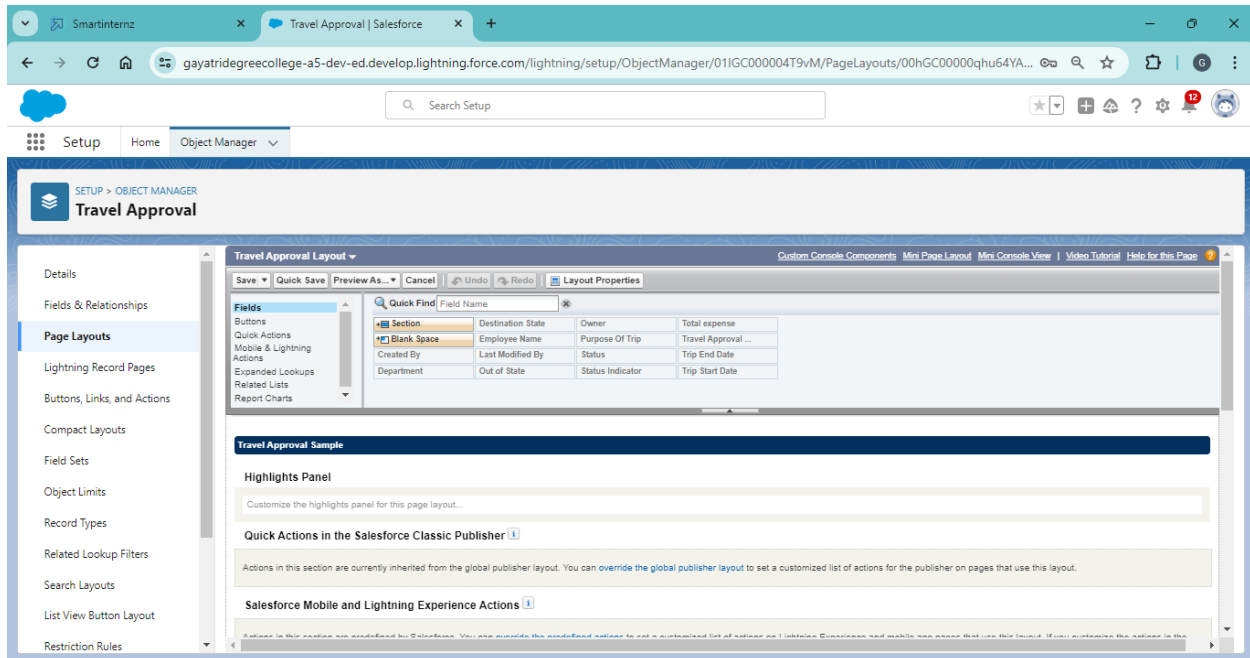


## Milestone – 08 : Use Custimization

### Customize Travel Approval Object Page Layout

1. From the Object Manager, search for the Travel approval object.
2. Click on page layouts and click Travel Approval Layout.
3. Drag the Section from the top pane to the lower pane directly below the Information section. When dragging over the page, you get a visual indicator You can drop the new section.
4. Name the section Trip Info, leave the rest of the settings at their default values, and
5. Then click on OK.
6. Drag Trip Start Date and Trip End Date, Status from the top pane into the left-Hand column of the Trip Info section.

7. Drag the Destination State and Purpose of a trip from, department the top Pane into the right-hand column of the Trip Info Section.
8. Click Save.

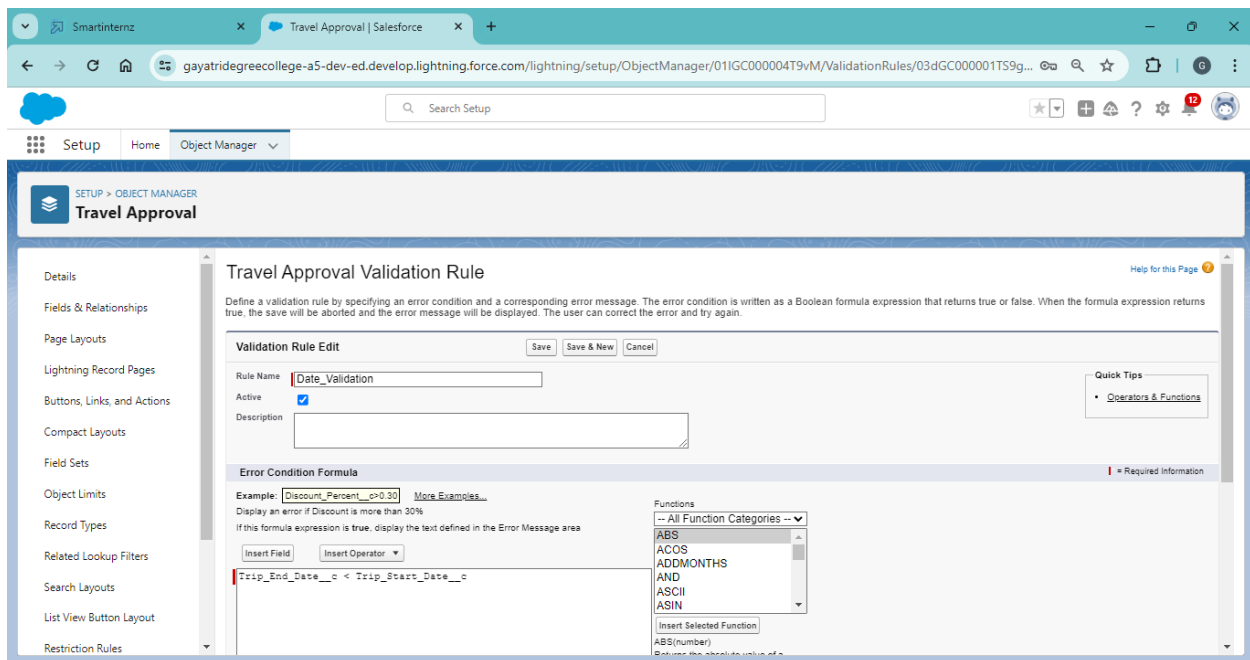


## Milestone – 09 : App Business Logic To Travel App

### Create Validation Rule

Search for the travel approval object from the object manager and open the object.

1. Click on validation rules and click new on the left corner.
2. Give your rule name Date\_Validation and make sure that the rule is set to Active.
3. In the error condition formula enter `Trip_End_Date c < Trip_Start_Date` , Click Save .



## Create Formula Fields:

1. First, we need to upload a zip file to your salesforce environment that contains all the images we use. You should have a file titled StatusImages.zip
2. Click the setup
3. Click Static Resources in Quick Find & Click New.
4. Enter the following values for your static resource

Paramete	Value
Name	StatusImages
File	StatusImages.zip
Cache-Control	Private

Now select the travel approval object.

1. Select Fields & Relationships, Click New
2. Select Formula data type, and Click Next.
3. Enter the following values:
4. Field Label : Status Indicator

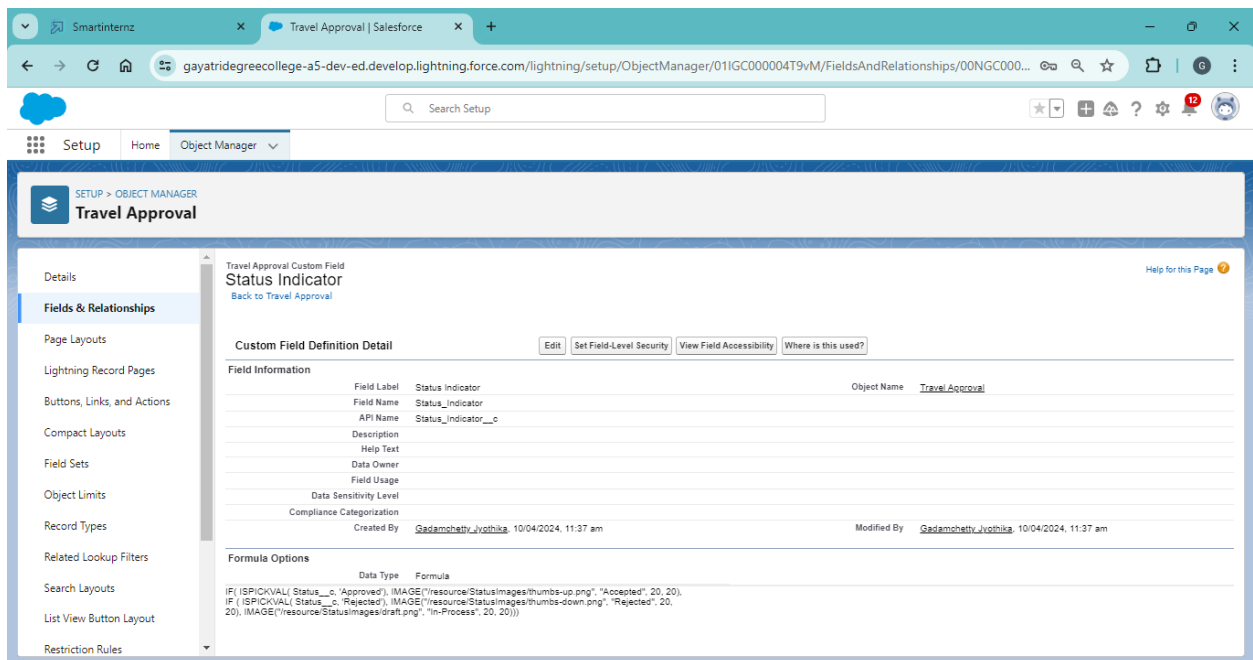
5. Field Name :Status\_Indicator (This automatically gets send when you tab out of the Field Label field)

6. Formula Return Type : Tex

Click next & Copy and paste the following formula into the formula editor.

IF( ISPICKVAL( Status\_\_c, 'Approved'), IMAGE("/resource/StatusImages/thumbs-up.png", "Accepted", 20, 20),

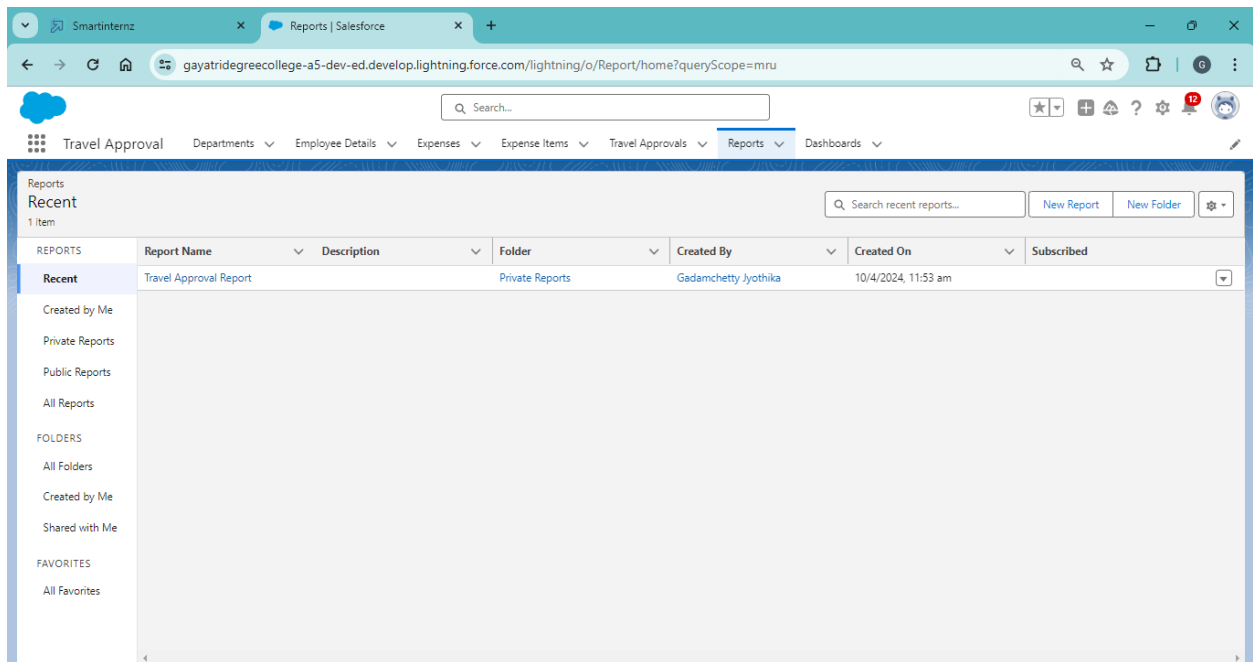
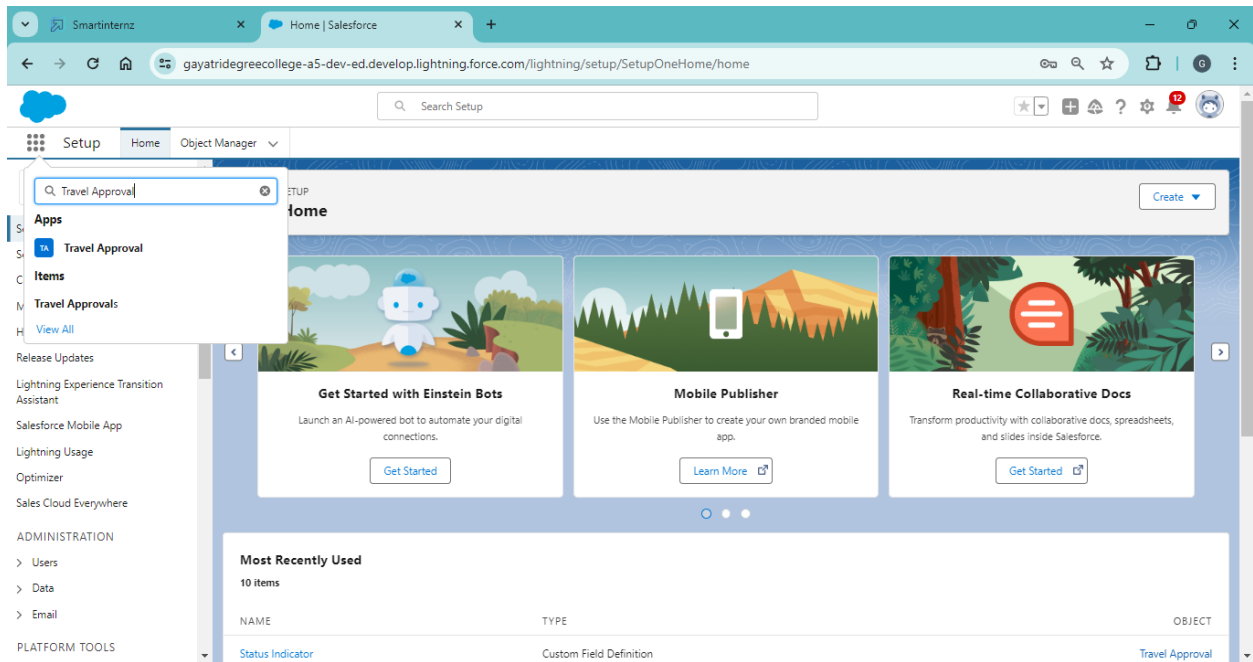
IF ( ISPICKVAL( Status\_\_c, 'Rejected'), IMAGE("/resource/StatusImages/thumbs-down.png", "Rejected", 20, 20), IMAGE("/resource/StatusImages/draft.png", "In-Process", 20, 20)))



## Milestone – 10 : User Adoption – Create Record

### Create Record

1. Click App Launcher and select Travel Approval App
2. Click New Report.
3. Click the report type as Travel approval with Departments Click Start report.
4. Customize your report, in group rows select – Department Name
5. Click refresh
6. Click save and run
7. Give report name – Travel Approval Report
8. Click Save.



## View Record :

View Record (Department) :

1. Click on App Launcher on lift side of screen.
2. Click on Department Tab.
3. Click on Department Tab.
4. Click on any record name. You can see the details of the Department.

Report: Travel Approvals with Department  
**Travel Approval Report**

Total Records: 6

Department: Department Name	Travel Approval: Travel Approval Name
B.COM (2)	J.NEHA
	P.MOUNI
<b>Subtotal</b>	
BCCA (1)	P.LEELA
<b>Subtotal</b>	
MECS (1)	D.SHALLU
<b>Subtotal</b>	
MSCS (2)	B.PALLAVI
	G.JYOTHI
<b>Subtotal</b>	
<b>Total (6)</b>	

Row Counts: ☒ Detail Rows: ☒ Subtotals: ☒ Grand Total: ☒

## Delete Record :

Delete Record (Department):

1. Click on App Launcher on the left side of the screen.
2. Search Travel Approval & click on it.
3. Click on Department Tab.
4. Click on Arrow at the right-hand on that particular record.
5. Click delete and delete again.

Departments  
**Recently Viewed**

4 items • Updated a few seconds ago

Department Name	
1 <input type="checkbox"/> MECS	
2 <input type="checkbox"/> MSCS	
3 <input type="checkbox"/> BCCA	
4 <input type="checkbox"/> B.COM	



## **Milestone – 11 : What Are Reports?**

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:

### **1. Tabular Reports :**

This is the most basic report format. It just displays the row 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.

### **2. Summary Reports :**

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

### **3. Matrix Report :**

It is 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.

### **4. Joined Reports :**

This types of reports let us create different views of data form multiple report types. The data is joined reports are organized in blocks. Each block acts as a supreport 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 :**

Reports types determines which set of records will be available in 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 cannot include more than 4 objects.
- Once a report is created its report type cannot be changed.

There are 2 types of reports types :

### **1. Standard Report Types :**

Standard Report Types are automatically included with standard objects and also with custom objects where “Allow Reports” is checked.

Standard report type 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.

## **2. 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 reports 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 :

### **1. Viewer :**

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

### **2. Editor :**

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

### **3. Manager :**

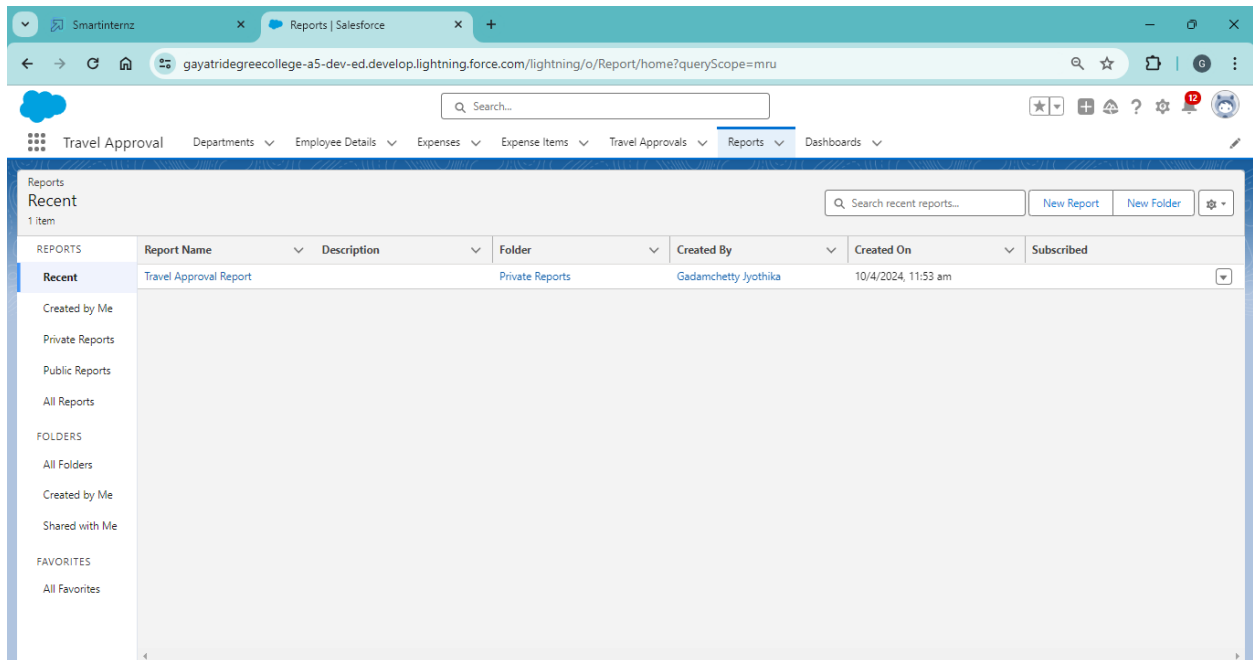
With this access level, users can do everything Viewers & Editors can do, plus they can also control other user’s access levels can delete the report.

From this milestone we are going to import the data and create the reports and dashboards for data visualization in the application.

## **Create Report :**

1. Click App Launcher and select Travel Approval App
2. Click reports tab
3. Click New Report.
4. Click the report type as Travel Approval with Departments Click Start Report.

5. Customize your report, in group rows select – Department Name
6. Click Refresh
7. Click Save and Run
8. Give report name – Travel Approval Report
9. Click Save.



### View Report :

1. Click on App Launcher on left side of screen.
2. Search Travel Approval App & Click on it.
3. Click on Reports Tab.
4. Click on Travel Approval Report and see records.

Report: Travel Approvals with Department  
**Travel Approval Report**

Total Records: 6

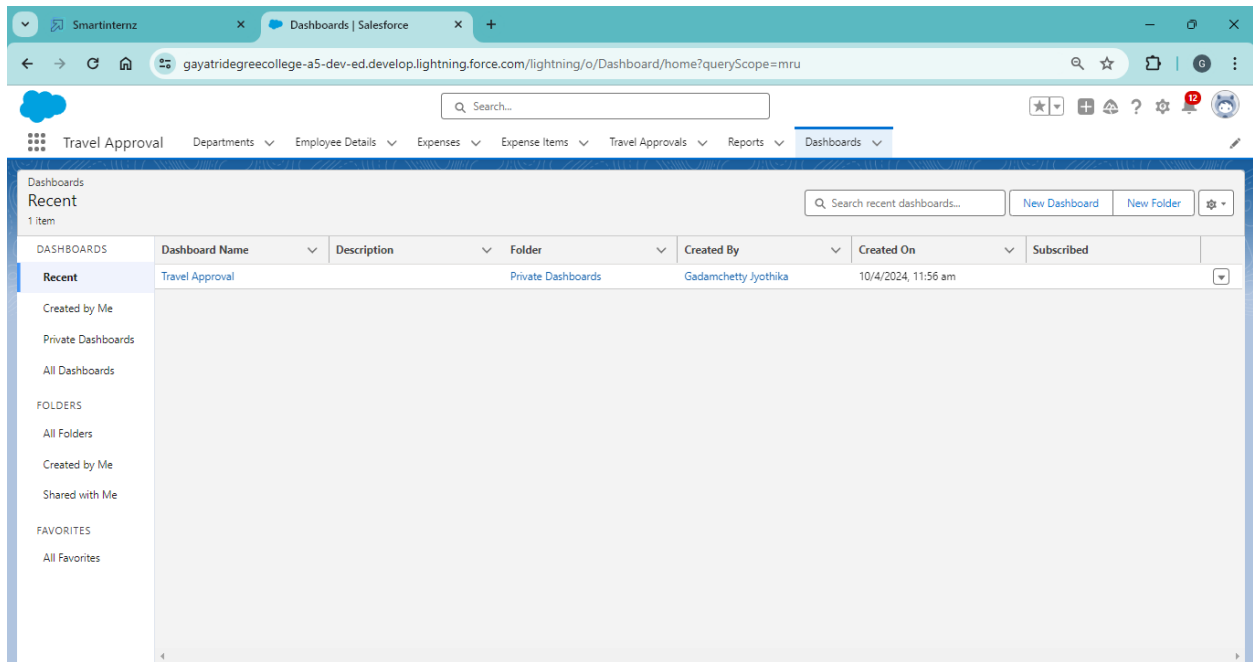
Department: Department Name	Travel Approval: Travel Approval Name
B.COM (2)	J.NEHA
	P.MOUNI
Subtotal	
BCCA (1)	P.LEELA
Subtotal	
MECS (1)	D.SHALLU
Subtotal	
MSCS (2)	B.PALLAVI
	G.JYOTHI
Subtotal	
Total (6)	

Row Counts: ☒ Detail Rows: ☒ Subtotals: ☒ Grand Total: ☒

## Milestone – 12 : Dashboards

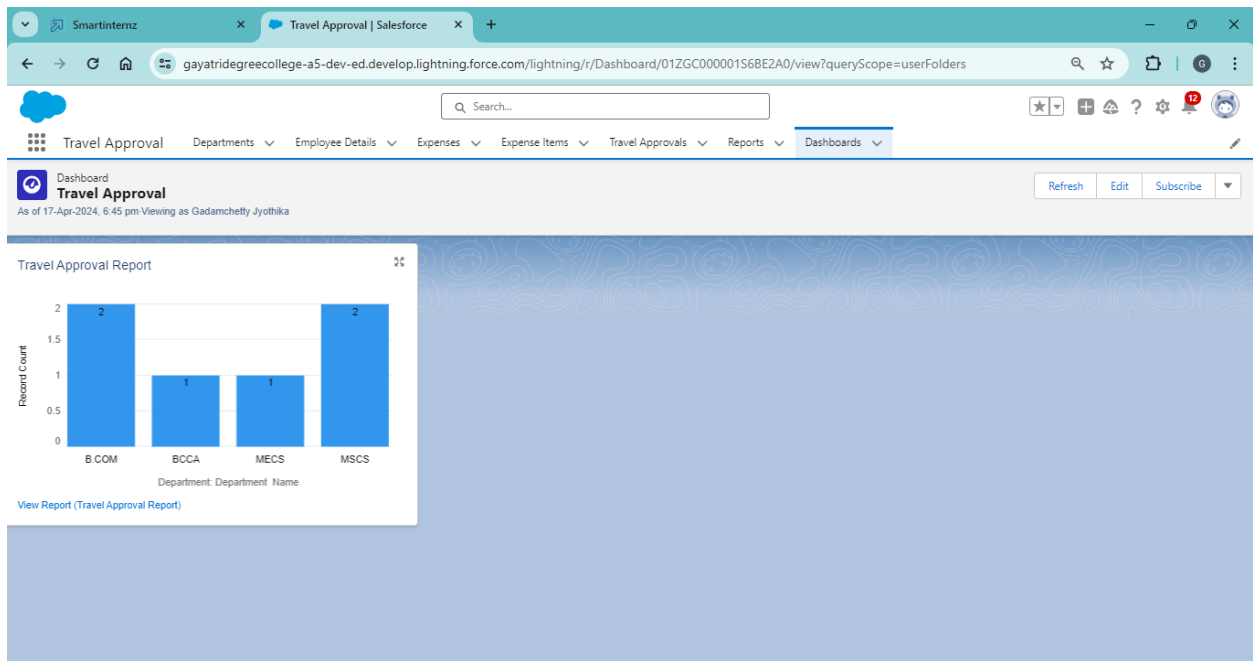
### Create Dashboard

1. Click on the Dashboards tab from the Travel Approval application
2. Click on a new dashboard
3. Give name – Travel Approval
4. Click Create
5. Give your dashboard a name and click on +component, select the Travel Approval Report that you created.
6. For the data visualization select any of the chart, table etc as your wish.
7. Click add.
8. Click Save.



## View Dashboard :

1. Click on App Launcher on left side of screen.
2. Search Travel Approval App & click on it.
3. Click on Dashboard Tab.
4. Click on Travel Approval and see graph view of records.

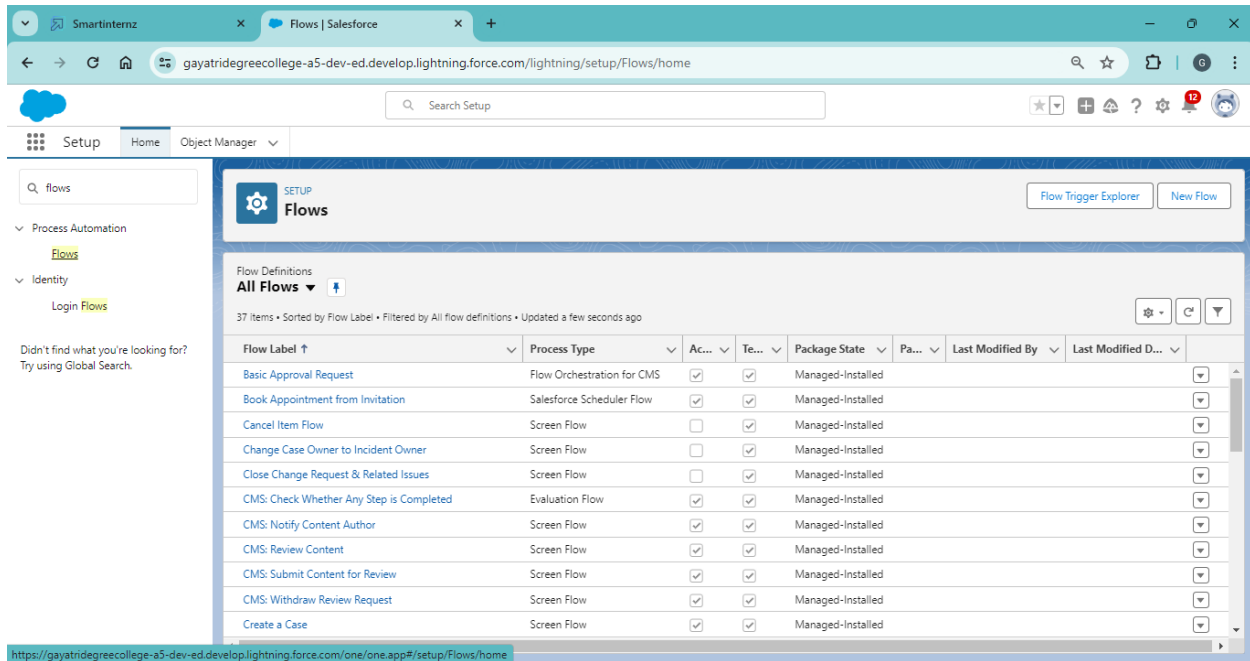


## Milestone – 13 : Flows

### Create a Flow

Now create a flow that uses the update record node to set tge out-of-state flag.

1. From Setup, click the Home tab.
2. Select Process Automation | Flows (or use the Quick Find and search for flows)



3. Click New Flow
4. Select Record-Triggered Flow then click Create.
5. Enter these values :

Parameter	Value
Object	Travel Approval
Configure Trigger	Trigger the flow when: <b>A record is Created or Udated</b>
Conditional Requirements	None
Optimize the Flow For	Fast Field Updates

6. Click Done.

7. In this Layout dropdown, select Freeform.

### Add a Decision Element

1. From the left-hand toolbox column, drag a Decision element onto the flow builder screen.

2. Set the following parameters:

Parameter	Values
Label	Is Travel Out of State
API Name	Is_Travel_Our_of_State (This automatically gets set when you tab out of the Label field)
Description	Leave blank

3. Set the Outcomes.

4. For the first outcomes, set these parameters :

Parameter	Value
Label	Yes Out of State
Outcome API Name	Yes_Out_of_State (This automatically gets set when you tab out of the label filed)
Condition Requirement to Execute Outcome	<b>All Conditions Are Met(AND)</b>
Resource	<b>\$Record &gt; Destination State</b>
Operator	<b>Does Not Equal</b>
Value	TX
When to Execute the Outcomes	<b>Only if the record that triggered the flow to run is updated to meet the condition requirements</b>

5. Next to Outcomes Order click the +button to add another outcome.

6. Set these parameters :

Parameter	Value
Label	In State
Outcome API Name	In_State(This automatically gets set when you tab out of the label filed)
Condition Requirement to Execute Outcome	<b>All conditions Are Met (AND)</b>
Resource	<b>\$Record &gt; Destination State</b>
Value	TX

When to Execute the Outcomes	<b>Only if the record that triggered the flow to run is updated to meet the condition requirements</b>
------------------------------	--

7. Click Done.

8. Drag the white circle from the start Flow element to the Decision element you just created to link the direction of the arrow.

Create an Action for the Flow Using Update Records Elements

1. From the left-hand column, the flow toolbox, drag an Update Records element onto the flow screen.

2. Set the parameters for the element :

Parameter	Values
Label	Update Travel Approval Record
Ourcome Apl Name	Update_Travel_Approval_Record(This automatically gets set when you tab out of the Label field)
How to find Records to Update and set their values	<b>Use the travel approval record that triggered the flow</b>
Conditions Requirements to Update the Records	<b>None-Always Update the Record</b>
Field	Out_of_State__c
Value	<b>\$GlobalConstant.True</b> (start typing True and the value will be come up).

3. Click Done.

4. Drag the white circle from the Decision Node to the Update Records you just created, and select the decision Yes Out of State | Done.

5. Click the Update Records node and make sure it is highlighted in blue. In the top-left corner of the Flow Builder screen, find the and click the duplicate button Duplicate button. Double-click in the new update Records element just created. Note the API name has been automatically updated to Update\_Travel\_Approval\_Record\_0.

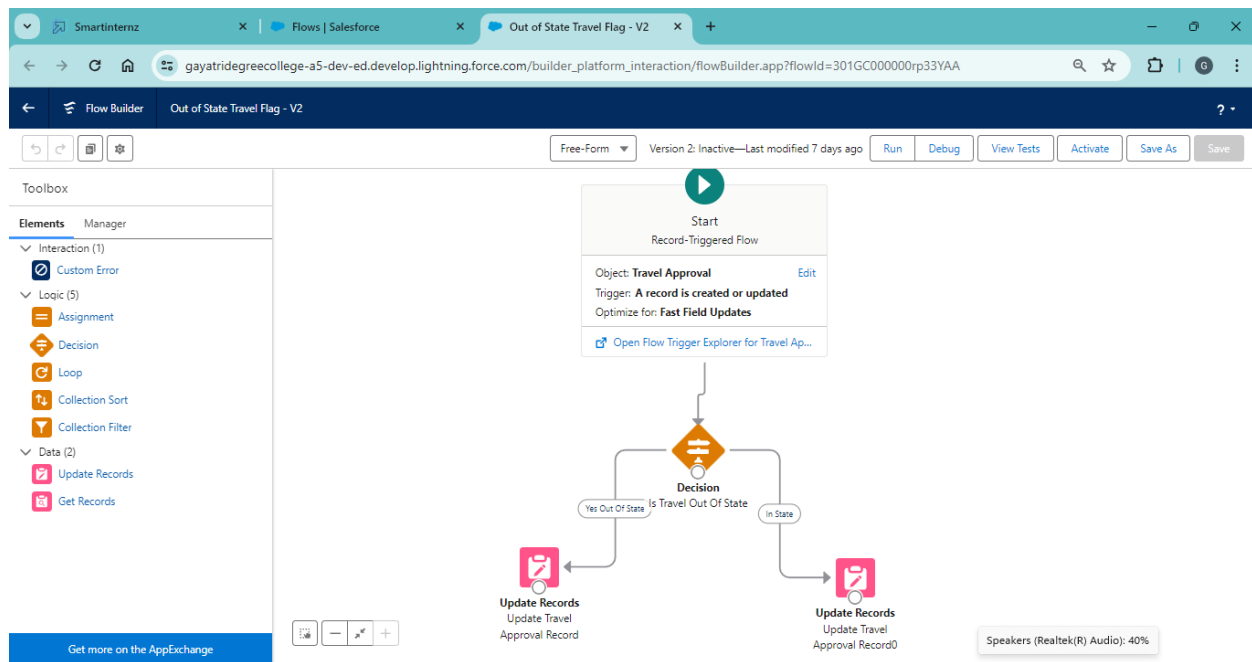
6. Then update the value of the Out\_of\_State\_\_c field to FALSE.

7. Delete the True Value and enter False.Selectet \$GlobalConstant.False.

8. Click Done.

9. Drag the white circle form the Decision Node to the second Update Records you just created and select the decision In State.





Congratulations!! You've completed your first Record Triggered Automation Flow! Last but not least, make sure to save and activate the flow.

1. Click Save.
2. Flow Label : Out of State Travel Flag. Flow API Name will auto populate to Out\_of\_State\_Travel\_Flag. Leave Description blank and advanced settings as is.
3. Click Save.
4. Click Active.

## Milestone – 14 : Approval Process

### Create a Approval Process :

Let's get started.

1. Click and select Setup.
2. Select Process Automation | Approval Process (or use the Quick Find and search for Approval Process).
3. In the Manage Approval Processes For list, select Travel Approval.
4. Click Create New Approval Process and select Use Jump Start Wizard.
5. Enter the following parameter

Parameter	Values
Name	Travel Approval Request
Unique Name	Travel_Approval_Request(This automatically get's sent when you tab out of the name field.)

Approval Assignment Email Template	Leave Blank
Add the submit for Approval button and approval history related list to all travel approval page layouts.	Leave this selected/checked.
Use Approval Field of Travel Approval Owner	Leave Unselected/Unchecked
Specify entry criteria	Use this Approval Process : <b>criteria are met</b>
Field	Travel Approval:Total Expenses
Operator	<b>Greater than</b>
Value	0
Select Approval	<ul style="list-style-type: none"> <li>• Automatically assign and approval using a standard or custom hierarchy field.</li> <li>• Select manager from the option list</li> </ul>

6. Click Save.

7. Click View Approval Process Detail Page.

Create an Approval Step for Out-of-State Travel

1. Click New Approval Step.

2. Enter the following details

Parameter	Value
Name	Travel Coordinator Approval
Unique Name	Travel_Coordinator_Approval (This automatically gets set when you tab out of the Name field)
Step Number	2

3. Click Next.

4. Ensure Enter this step if the following is selected and the criteria are met option is selected.

5. Enter the following formula criteria

Field : Travel Approval:Out-of-State

Operator : equals

Value : True

6. Click Next.

7. Select the Automatically assign to the approver(s) option.

8. Select user from the dropdown and select your name as the travel coordinator.

9. Click Save.

10. Select No, I'll do this later. Take me to the approval process detail page to review what I've created and then click Go!

Add Logic

Next, add logic to set the status of the approval request based on if it was approval for rejected.  
Let's start by creating an action if the request was approved by all approvers.

1. Click Add New in the Final Approval Actions area of the approval process form.
2. Select Field Update from the dropdown list.
3. Enter the following values.

Parameter	Values
Name	Set Status to Approved
Unique Name	Set_Status_to_Approved(This automatically gets set when you tab out of the Name field)
Field to Update	<b>Status</b>
Re-evaluated Workflow Rules after Field Change	Leave unchecked
Picklist Options	Select <b>A specific value</b> and select <b>Approved</b> from the dropdown list.

4. Click Save.

Next, let's set the status value of Rejected if any approver rejects the travel approval request.

1. Click Add New in the Final Rejection Actions area if the approval process form.
2. Select Field Update from the dropdown list.
3. Enter the following values.
4. Click Save.
5. Click Activate.
6. Select OK in the popup window to confirm activation. Your approval process should now have the Active flag checked.

Next, you enable email approval responses.

1. Click and select Setup.
2. From setup, enter process automation settings in the quick find box and select it.
3. Click the Process Automation Settings link.
4. Make sure Enable Email Approval Response is selected.
5. Set the Default Workflow User to your name.
6. Click Save.

The screenshot shows the Salesforce Setup page for 'Approval Processes'. The left sidebar contains a search bar and a navigation menu with 'Data', 'Process Automation', and 'Approval Processes'. The main content area displays the 'Travel Approval: Travel Approval Request' process definition details. The process is active and has a unique name of 'Travel\_Approval\_Request'. The entry criteria is 'Travel Approval: Total expense GREATER THAN 0'. The record editability is 'Administrator ONLY'. The approval assignment email template is 'Travel Approval Owner'. The initial submission actions include 'Record Lock'. The approval steps table shows two steps: Step 1 (Manager) and Step 2 (User:Gadambethy\_jyothika).

Action	Type	Description
Record Lock		Lock the record from being edited

Action	Step Number	Name	Description	Criteria	Assigned Approver	Reject Behavior
Show Actions   Edit	1	Step 1			Manager	Final Rejection
Show Actions   Edit	2	Travel Coordinator Approval		Travel Approval: Out of State EQUALS True	User:Gadambethy_jyothika	Final Rejection

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Show Actions   Edit	1	Step 1			Manager	Final Rejection
Show Actions   Edit	2	Travel Coordinator Approval		Travel Approval: Out of State EQUALS True	User:Gadambethy_jyothika	Final Rejection

## Test Your Approval Process :

Time to Test now you've created your approval process, let's test it out.

1. Using the App Launcher, navigate to the Travel App and click the Travel Approval tab..
2. Select a record from the list. Make sure this is a travel approval record that has at least one expense item and a total expense amount greater than \$0.
3. Click the down arrow next to the New Opportunity button and select Submit for Approval..

4. Enter a comment and click Submit.
5. You should receive an email alert like the following that lets Eric Executive know that he has a travel approval to process. Notice that it provides a link to directly access the Travel Approval record so that Eric could review it. Also, the email includes the option to just respond to the email and reply with text like APPROVE, YES, REJECT, NO.
6. On your Travel Approval record, click the Related tab and you can see the new section titled Approval History that has details of your approval submission. Its status is Pending and it's assigned to Eric Executive.
7. At this point you could log out of Salesforce and log back in as Eric Executive.
8. Click Approve in the Approval History section.
9. In the popup window, enter a comment and click the Approve button once again.
10. Since this was for out-of-town travel, the approval was sent to the Travel Coordinator.
11. Click Approve in the Approve History section to finish the approval.
12. Enter a comment in the popup window and click Approve.
13. Click the detail tab for your travel approval record.
14. Pick or create another travel request record and submit it for approval. Check your email and respond to the email with reject.

Congratulations! You have added automation to your application using point and click tools such as :

- Validations Rules
- Formula Fields
- Roll-Up Summary Fields
- Flow Builder
- Approval Processes

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gayatridegreecollege-a5-dev-ed.develop.lightning.force.com/lightning/setup/SetupOneHome/home

Search Setup

Setup Home Object Manager

Q travel approval

**Apps**

- Travel Approval

**Items**

- Travel Approvals
- View All

Release Updates

- Lightning Experience Transition Assistant
- Salesforce Mobile App
- Lightning Usage Optimizer
- Sales Cloud Everywhere

**ADMINISTRATION**

- > Users
- > Data
- > Email

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**Most Recently Used**

10 items

NAME	TYPE	OBJECT
Travel Approval Request	Process Definition	Travel Approval

Travel Approval Departments Employee Details Expenses Expense Items Travel Approvals Reports Dashboards

Travel Approval Travel Exp

New Contact Edit New Opportunity

**Related Details**

Travel Approval Name: Travel Exp Owner: Prathu Mounika

Employee Name: Modify

Department: Computer Science

Status Indicator:

Out Of State: true

Total Expense: 5,000

**Trip info**

Trip Start Date: 20/04/2024	Destination State: Kashmir
Trip End Date: 26/04/2024	Purpose of Trip: Vacations
Status: Approved	
Created By:	Last Modified By: