

# PROJECT REPORT

## TRAVEL APPROVAL APPLICATION

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### 1 INTRODUCTION

#### 1.1 Overview:

This project helps in sending your travel approval requests to your manager in place of emails.

#### 1.2 Purpose:

The Travel Support System (this is the name that you can see on the screen when executing the application) is a small sample application for NaturalONE. As a sample application, its focus is to show NaturalONE functionality rather than being a full-fledged travel support application.

The Travel approval application allows you to request and approve business trips. Flights, hotels and even more external information such as cell phone expenses or car rentals can be entered with the trip request. For the destination, weather information can be queried. A manager can do both, request own trips as well as approve trips that have been requested by employees. After the manager has approved single or multiple requests, the manager can print an itinerary or receive the itinerary as a PDF file.

The usage of the travel approval application is described below.

### 2 Problem Definition & Design Thinking

#### 2.1 *Empathy Map*

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Template



### Empathy map

Use this framework to develop a deep, shared understanding and empathy for other people. An empathy map helps describe the aspects of a user's experience, needs and pain points, to quickly understand your users' experience and mindset.

Share template feedback



**Says**  
What have we heard them say?  
What can we imagine them saying?

**Thinks**  
What are their wants, needs, hopes, and dreams? What other thoughts might influence their behavior?

**Does**  
What behavior have we observed?  
What can we imagine them doing?

**Feels**  
What are their fears, frustrations, and annoyances? What other feelings might influence their behavior?

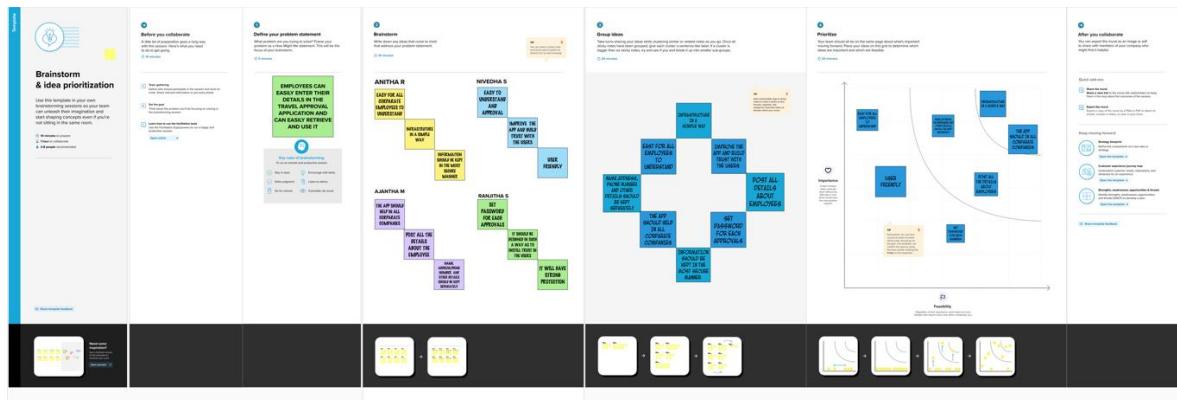


Need some inspiration?  
See a finished version of this template to kickstart your work.  
[Open example](#)

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### 2.2 Ideation & Brainstorming Map



## 3 RESULT

### 3.1 Data Model

Object name	Fields in the Object	
DEPARTMENT	Field label	Data type
	Department code	Text
	Department name	Text
	Department #	Auto number
TRAVEL APPROVAL	Field label	Data type
	Purpose of trip	Text Area
	Status--c	Picklist
EXPENSE ITEM	Field label	Data type
	Amount	Currency
	Expense type	Picklist
	Travel approval	Master – detail relationship

### 3.2 Activity & Screenshot

#### MILESTONE 1 – Create Salesforce Project

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### Create Salesforce Org

#### Introduction

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>

### Creating Developer Account

Creating a developer org in salesforce.

1. Go to <https://developer.salesforce.com/>

2. Click on sign up.

**3. On the sign up form, enter the following details :**

1. First name & Last name
2. Email
3. Role : Developer
4. Company : College Name
5. County : India
6. Postal Code : pin code
7. Username : should be a combination of your name and company

This need not be an actual email id, you can give anything in the

format : [username@organization.com](mailto:username@organization.com)

Click on sign up after filling these.

### Account Activation

#### 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 5-10mins, as

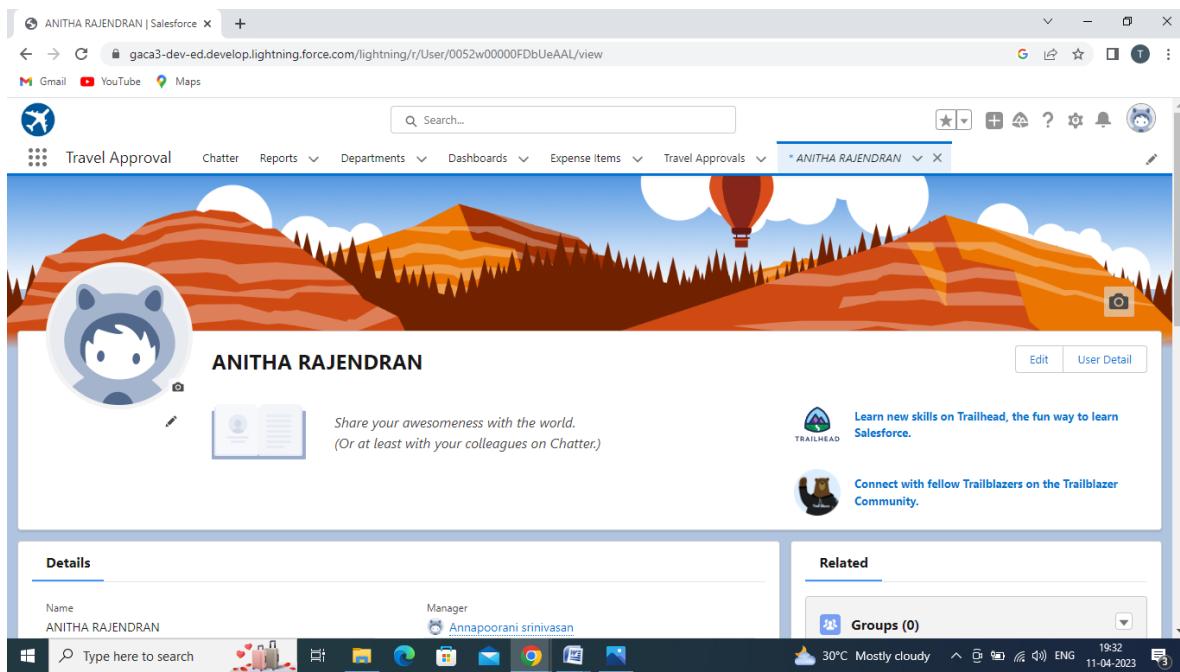
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### Login To Your Salesforce Account

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

Salesforce Login : <https://login.salesforce.com/>



### MILESTONE – 2 CREATING THE APPLICATION

#### Creating The Application

The AppManager is your go to place for managing apps for lightning experience. It shows all your connected apps and salesforce apps. Use the lightning experience app manager to view all your salesforce apps.

<https://www.youtube.com/watch?v=GR61sx2Kdis&feature=youtu.be>

#### Activity – 1:

#### Create The Travel Application

Search AppManager in quick find box, click on new lightning app. Before creating the application download this zip file and extract it.

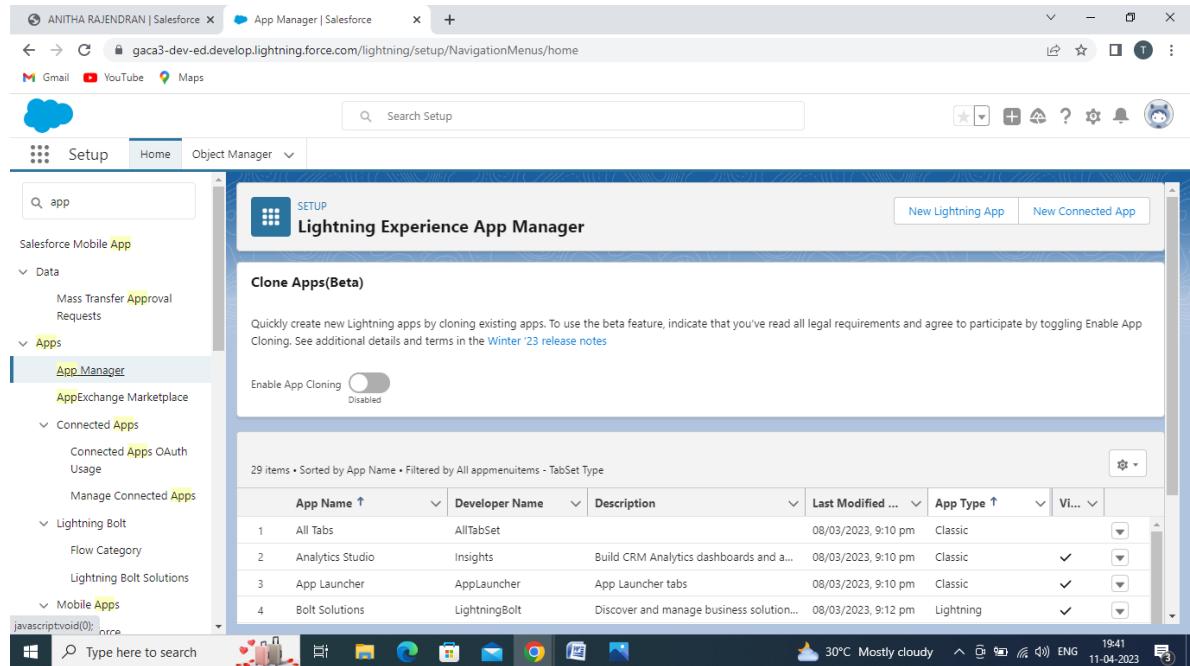
<https://developer.salesforce.com/files/TravelAppWorkshopFiles.zip>

#### Steps :

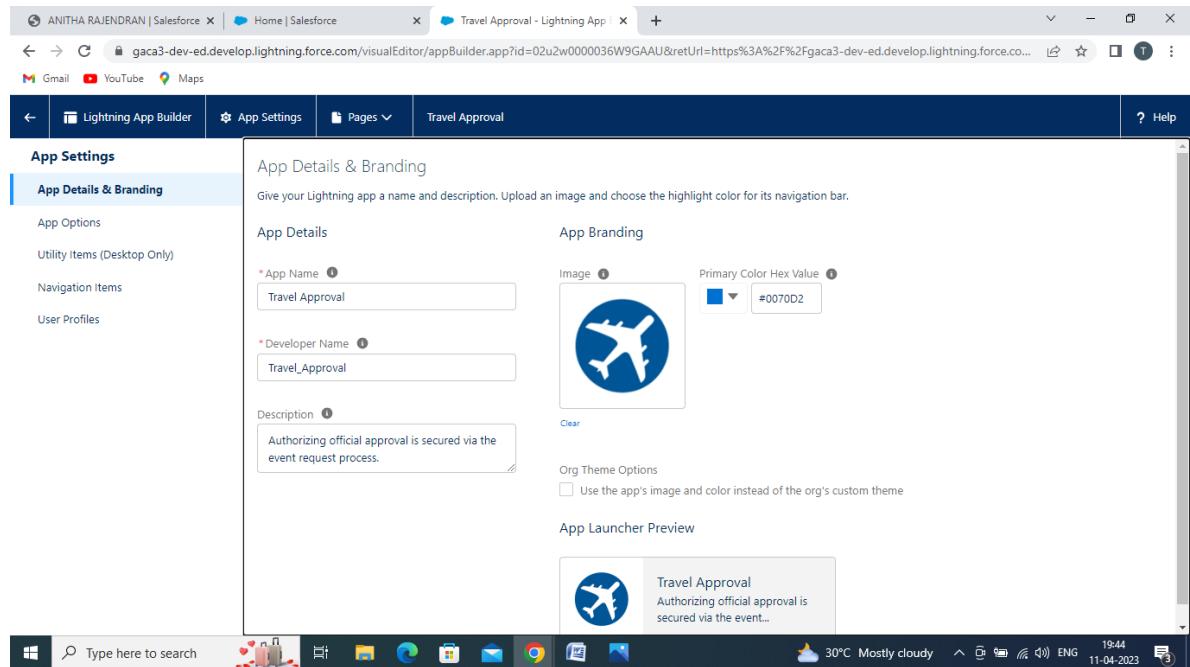
1. From Setup, enter App Manager in the Quick Find and select App Manager.

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2. Click New Lightning App. Enter Travel Approval as the App Name, then click Next



3. Under App Options, leave the default selections and click Next.

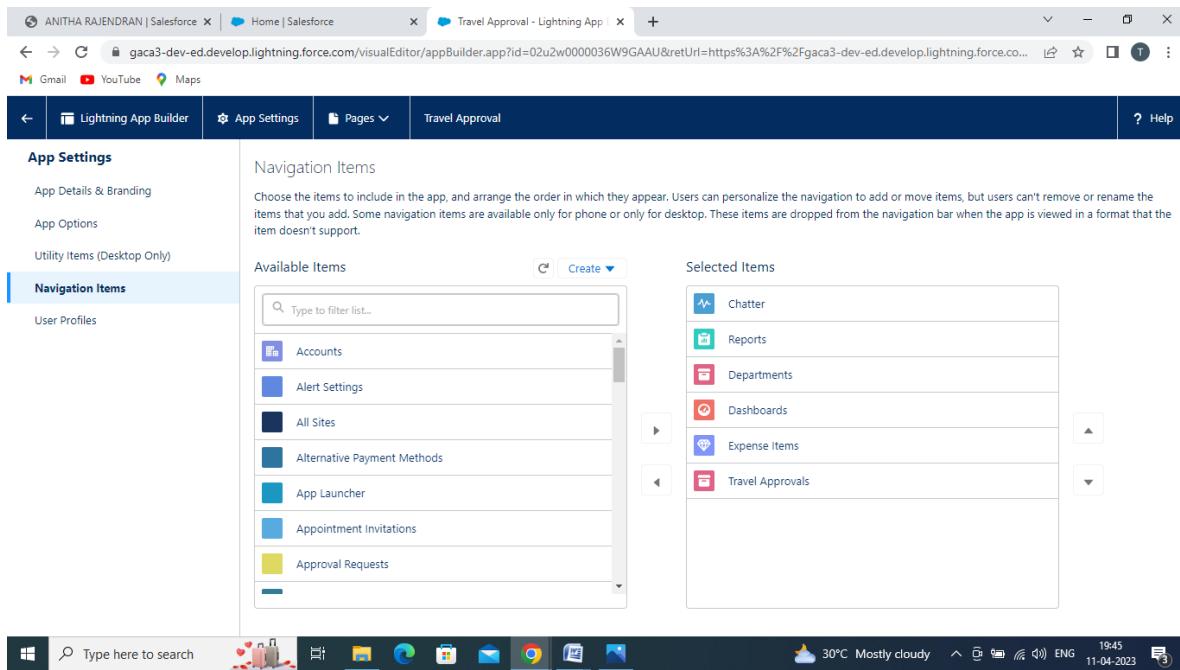
4. Under Utility Items, leave as is and click Next.

5. From Available Items, select Department, Travel Approval, Expense Item, Reports, and Dashboards and move them to Selected Items. Click Next.

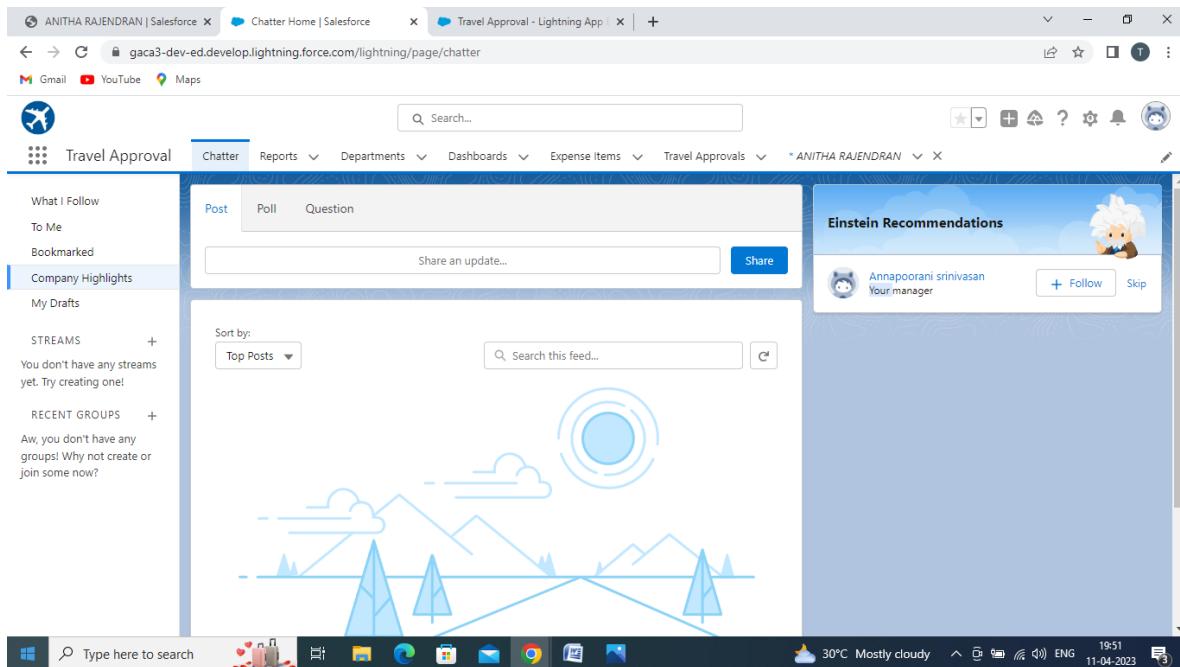
6. From Available Profiles, select System Administrator and move it to Selected Profiles. Click Save & Finish.

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7. To verify your changes, click the App Launcher, type Travel Approval and select the Travel Application app.



## MILESTONE 3 – WHAT IS AN OBJECT?

What Is An Object

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Salesforce objects are database tables that permit you to store data that is specific to an organization. It consists of fields (columns) and records (rows).

### 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.

In this Travel Approval application we will be creating 3 objects:

Department  
Travel approval and  
Expense Item

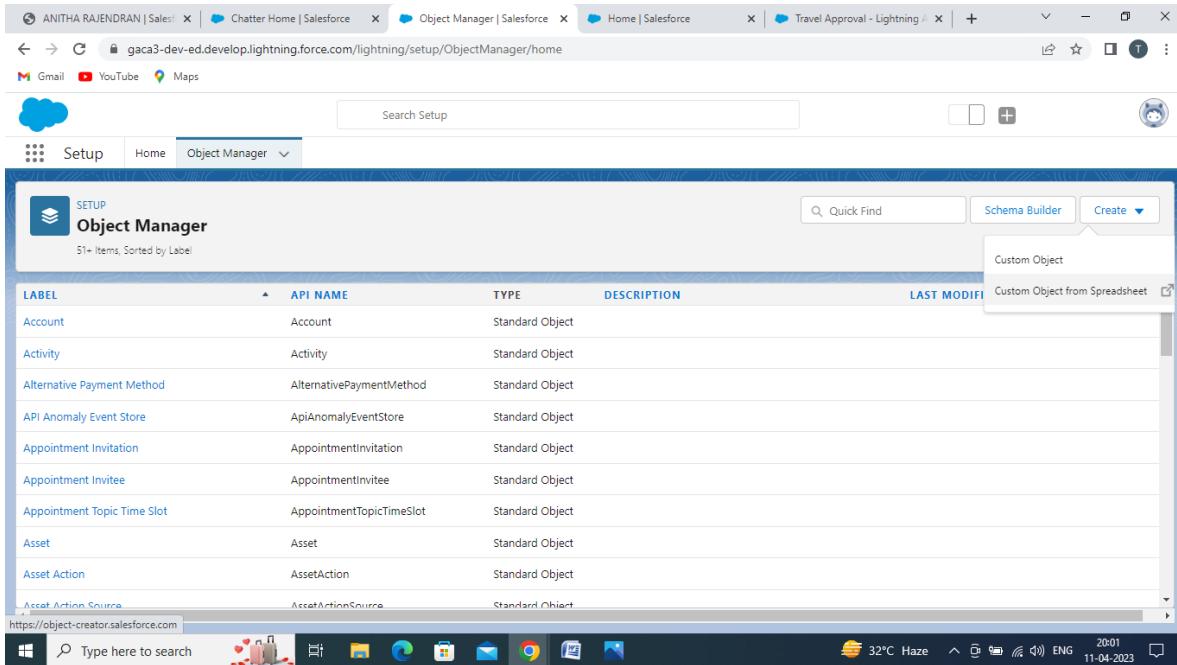
### Activity – 1 :

## Custom Object Creation

1. After you Login to your org, click create on the right side of the page and select custom object.

### To create an object:

From the setup page then Click on Object Manager then Click on Create then Click on Custom Object.



The screenshot shows the Salesforce Object Manager page. At the top, there's a navigation bar with tabs for Setup, Home, and Object Manager. The Object Manager tab is selected. Below the navigation is a search bar labeled "Search Setup". On the right side of the page, there are buttons for "Create", "Schema Builder", and a dropdown menu showing "Custom Object" and "Custom Object from Spreadsheet". The main area displays a table of objects, with the first few rows being:

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFI
Account	Account	Standard Object		
Activity	Activity	Standard Object		
Alternative Payment Method	AlternativePaymentMethod	Standard Object		
API Anomaly Event Store	ApiAnomalyEventStore	Standard Object		
Appointment Invitation	AppointmentInvitation	Standard Object		
Appointment Invitee	AppointmentInvitee	Standard Object		
Appointment Topic Time Slot	AppointmentTopicTimeSlot	Standard Object		
Asset	Asset	Standard Object		
Asset Action	AssetAction	Standard Object		
Asset Action Source	AssetActionSource	Standard Object		

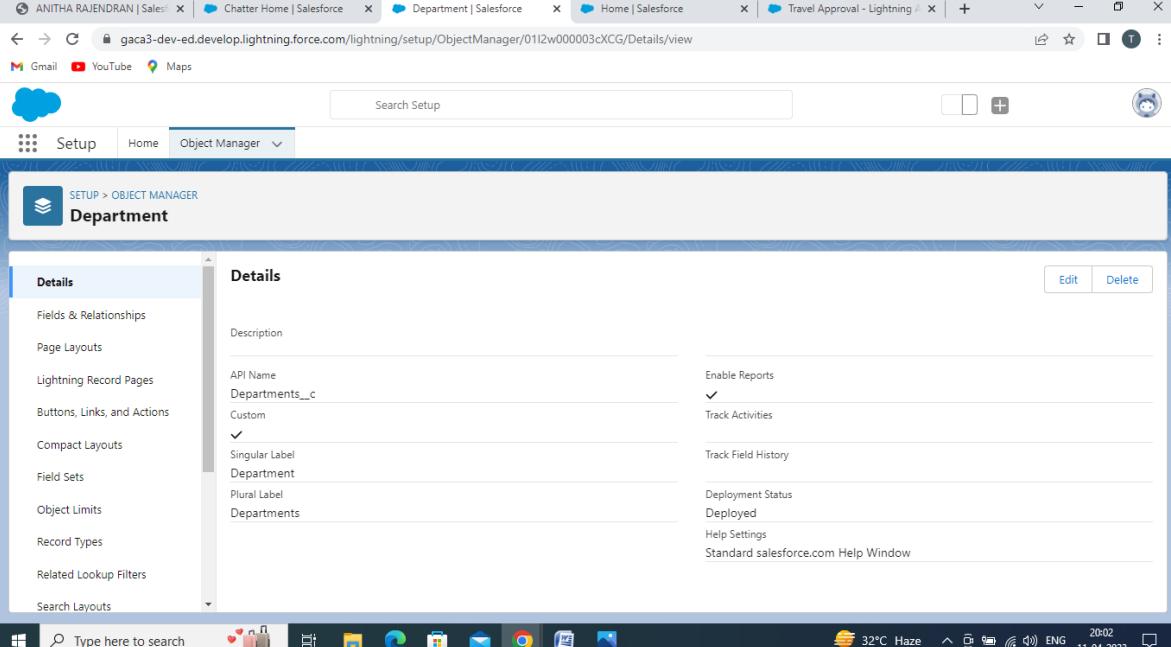
### On Custom object defining page:

Enter the label name, plural label name, click on Allow reports, Allow search then Save.

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### DEPARTMENT OBJECT :

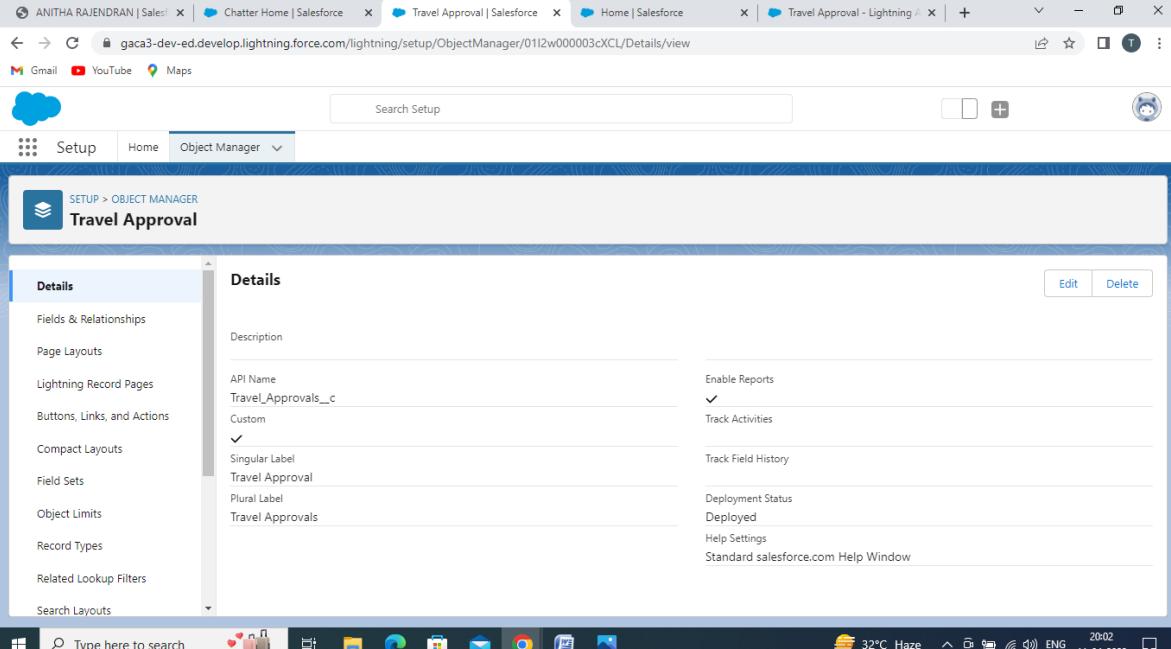


The screenshot shows the Salesforce Object Manager interface for the 'Department' object. The left sidebar lists various configuration options: Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, and Search Layouts. The main 'Details' pane shows the following fields:

Field	Value
Description	
API Name	Departments__c
Custom	✓
Singular Label	Department
Plural Label	Departments
Enable Reports	✓
Track Activities	✓
Track Field History	
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

The status bar at the bottom indicates it's 32°C Haze, 2002, ENG, 11-04-2023.

### TRAVEL APPROVAL OBJECT :



The screenshot shows the Salesforce Object Manager interface for the 'Travel Approval' object. The left sidebar lists various configuration options: Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, and Search Layouts. The main 'Details' pane shows the following fields:

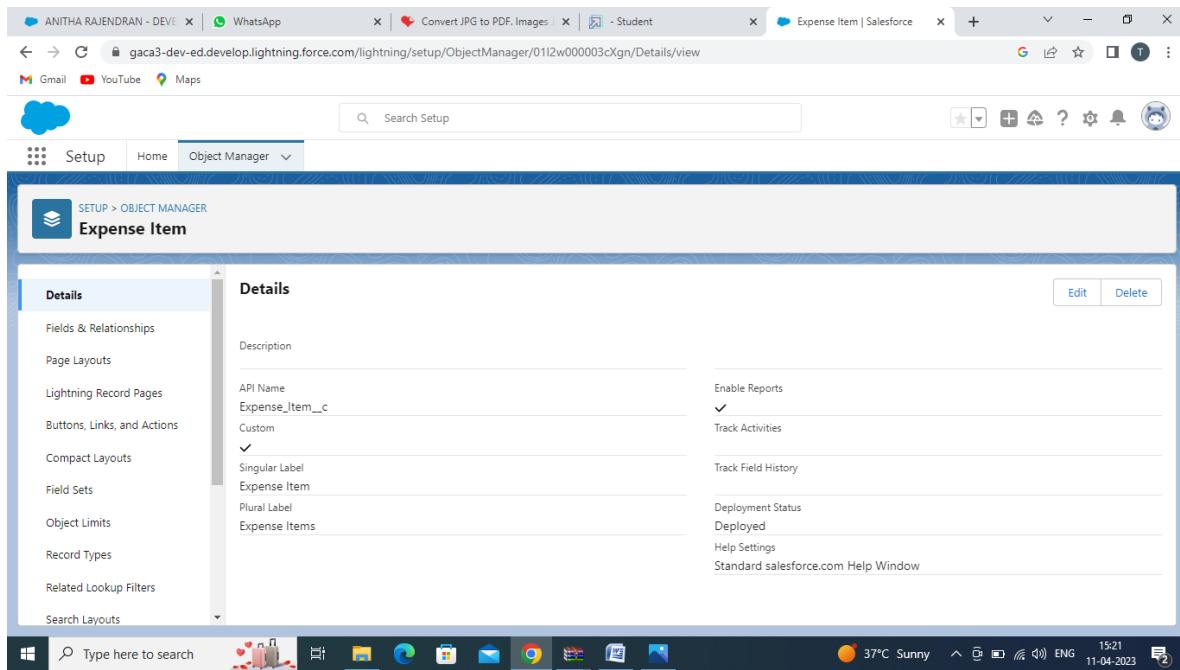
Field	Value
Description	
API Name	Travel_Approvals__c
Custom	✓
Singular Label	Travel Approval
Plural Label	Travel Approvals
Enable Reports	✓
Track Activities	✓
Track Field History	
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

The status bar at the bottom indicates it's 32°C Haze, 2002, ENG, 11-04-2023.

### EXPENSE ITEM :

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### Activity – 2 :

### Create 3 Custom Objects And Tabs

#### Create 3 custom objects and tabs

- a) Department
- b) Travel Approval
- c) Expense Item

#### Create Department Object

1. From Setup, click Object Manager.
2. Click Create, then select Custom Object.
3. Give the name as Department

To Navigate to Setup page:

Click on gear icon then click setup.

#### To create an object:

From the setup page then Click on Object Manager then Click on Create then Click on Custom Object.

#### On Custom object defining page:

Enter the label name, plural label name, click on Allow reports, Allow search then Save.

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4. Now the tabs section opens, add this tab to the travel app.

### Create Travel Approval Object

1. Navigate back to Object Manager
2. Click Create then select Custom Object.
3. Enter these details
4. Allow Reports, search, and launch a new tab and add this tab to the travel app.

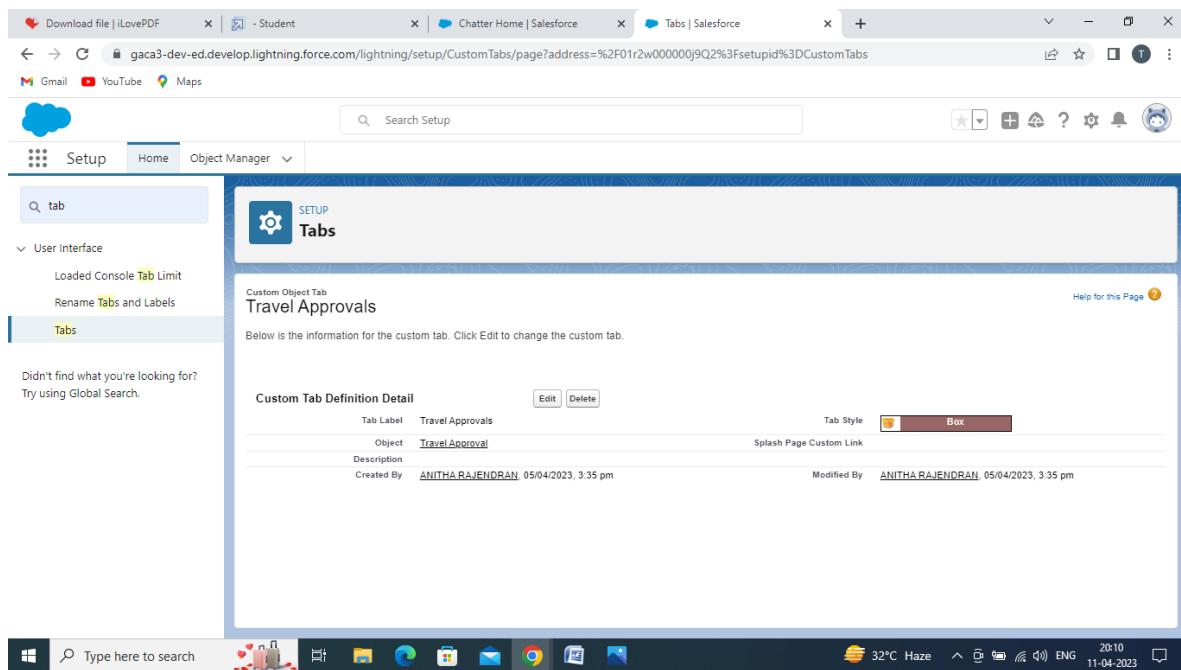
### A) DEPARTMENT

The screenshot shows the Salesforce Setup interface with the 'Tabs' page selected. A custom tab for the 'Department' object has been created and is displayed. The tab is named 'Departments' and is set to use the 'Box' tab style. The 'Edit' and 'Delete' buttons are visible at the top of the tab detail page. The page also includes fields for Tab Label, Object, Description, Created By, Modified By, and Splash Page Custom Link.

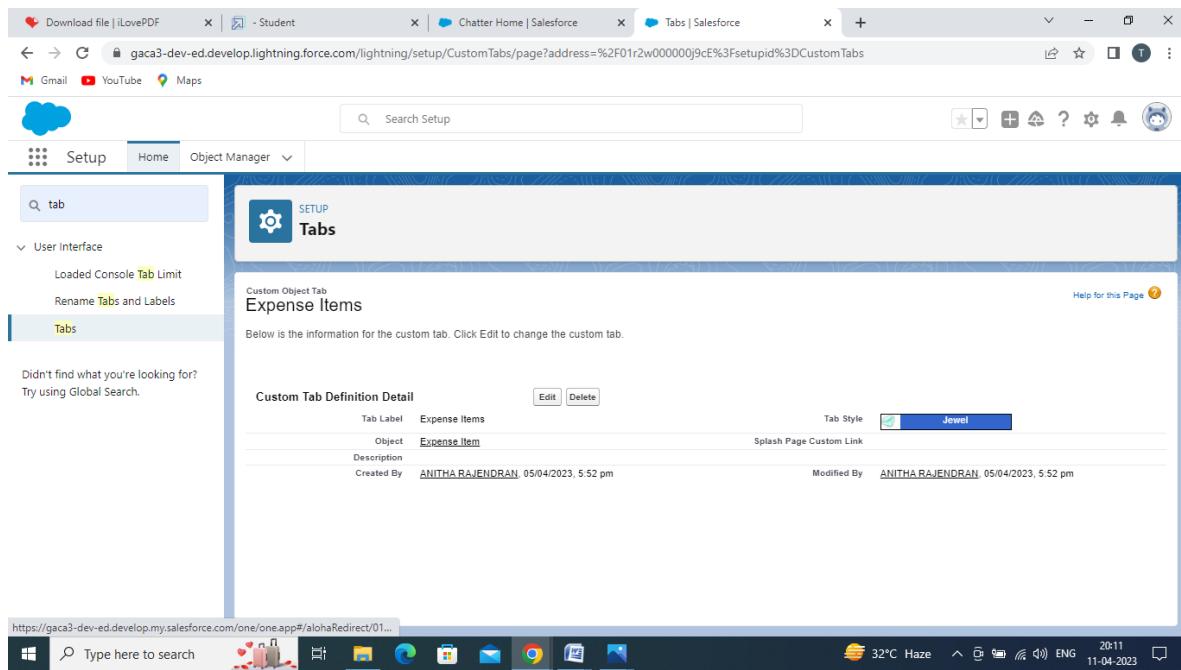
### B) TRAVEL APPROVAL

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### C) EXPENSE ITEM



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### MILESTONE 4 – WHAT IS A TAB?

#### What Is A Tab

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:**

**Standard Object Tabs:**

Standard object tabs displays data related to standard objects.

**Custom Object Tabs:**

Custom object tabs displays data related to custom objects. These tabs look and function just like standard tabs.

**Web Tabs:**

Web Tabs display any external Web-based application or Web page in a Salesforce tab.

**Visualforce Tabs:**

Visualforce Tabs display data from a Visualforce Page.

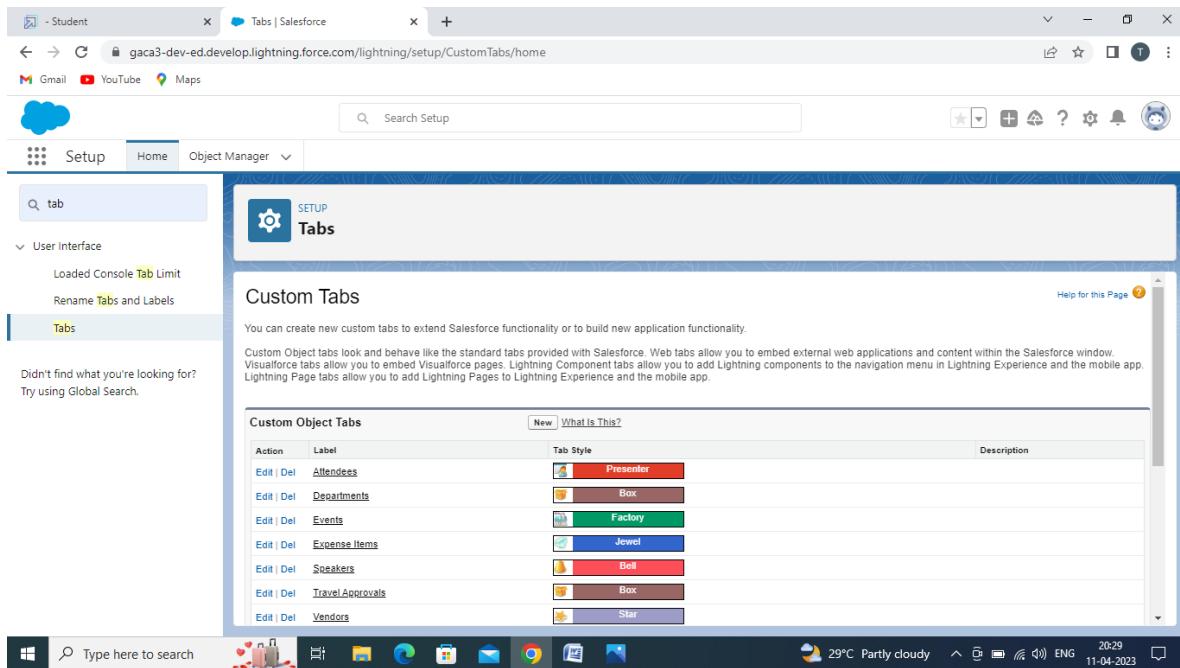
**Activity – 1:**

**Create A Custom Tab**

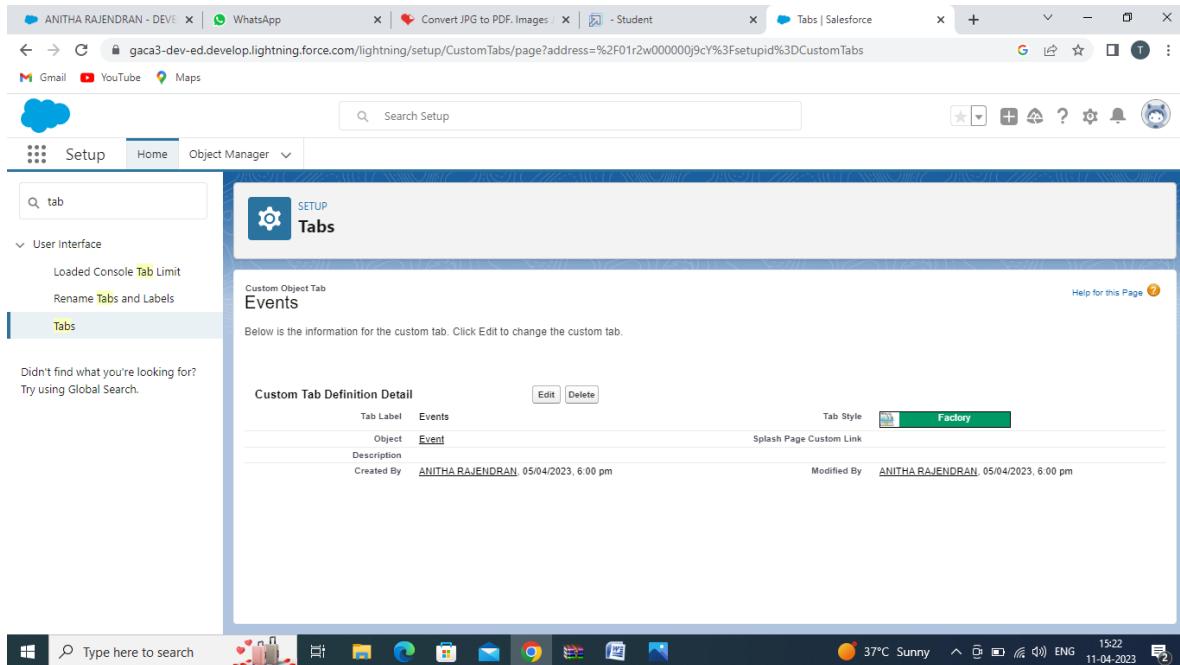
Now create a custom tab. Click the Home tab, enter Tabs in Quick Find and select Tabs. Under Custom Object Tabs, click New.

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1. For Object, select Event.
2. For Tab Style, select any icon.
3. Leave all defaults as is. Click Next, Next, and Save.



In the same way create other objects such as Attendees, Speaker and Vendor.

**Attendees :**

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The screenshot shows the Salesforce Setup interface. The user is navigating through the 'User Interface' section under 'Setup'. They have selected the 'Tabs' category. A search bar at the top left shows the query 'tab'. On the left sidebar, there is a tree view with 'User Interface' expanded, showing 'Loaded Console Tab Limit', 'Rename Tabs and Labels', and 'Tabs' (which is currently selected). A message below the sidebar says 'Didn't find what you're looking for? Try using Global Search.' The main content area displays a 'Custom Tab Definition Detail' table. The table has two rows: one for 'Attend' (Object) and one for 'ANITHA RAJENDRAN' (Created By). The 'Attend' row includes columns for 'Tab Label' (Attendees), 'Object' (Attend), 'Description' (Blank), 'Created By' (ANITHA RAJENDRAN), 'Modified By' (ANITHA RAJENDRAN), 'Tab Style' (Present), and 'Splash Page Custom Link' (Blank). The 'Attend' row is highlighted with a red background. Below the table, there is a note: 'Below is the information for the custom tab. Click Edit to change the custom tab.' At the bottom right of the content area, there are 'Edit' and 'Delete' buttons. The status bar at the bottom shows the Windows taskbar with various pinned icons like File Explorer, Edge, and Mail, along with system status indicators like battery level, signal strength, and temperature.

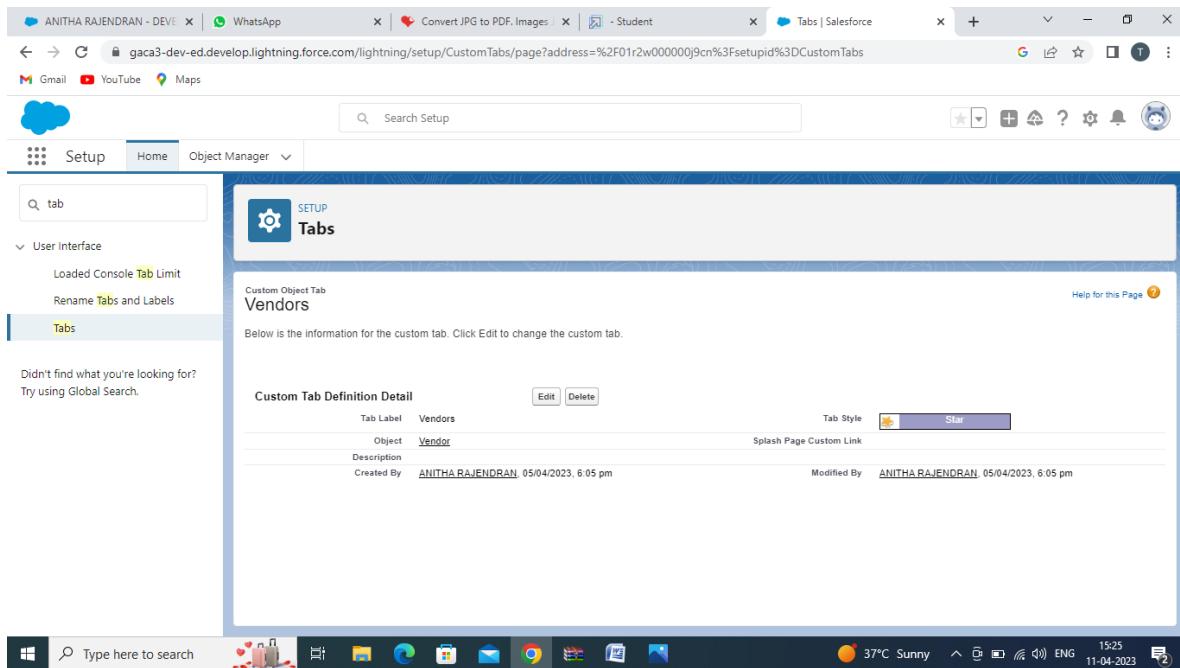
### Speaker :

This screenshot is similar to the previous one but shows the creation of a custom tab for 'Speakers'. The setup steps are identical: navigating through 'User Interface' > 'Tabs' > 'Attendees' > 'Edit' > 'Save'. The main difference is in the 'Custom Tab Definition Detail' table, where the 'Attend' row is replaced by a 'Speaker' row. The 'Speaker' row has the same structure: 'Tab Label' (Speakers), 'Object' (Speaker), 'Description' (Blank), 'Created By' (ANITHA RAJENDRAN), 'Modified By' (ANITHA RAJENDRAN), 'Tab Style' (Bell), and 'Splash Page Custom Link' (Blank). The 'Speaker' row is highlighted with a red background. The status bar at the bottom shows the Windows taskbar with various pinned icons like File Explorer, Edge, and Mail, along with system status indicators like battery level, signal strength, and temperature.

### Vendors :

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## MILESTONE 5 CREATE – FIELD & RELATIONSHIP

### Create - Fields& Relationships

What are fields? Fields in Salesforce represents what the columns represent in relational databases.

It can store data values which are required for a particular object in a record. There are 2 types of fields in salesforce:

#### 1.Standard fields:

There are four standard fields in every custom object that are Created By, Last Modified By, Owner, and the field created at the time of the creation of an object.

These fields cannot be deleted or edited and they are always required. For standard objects, the fields which are present by default in them and cannot be deleted from standard objects are standard fields.

#### 2.Custom fields:

The Custom fields which are added by the administrator/developer to meet the business requirements of any organization. They may or may not be required.

### Activity – 1 :

#### Create Fields & Relationships

1. Click Fields & Relationships, and click Next.

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The screenshot shows the Salesforce Object Manager interface for the 'Expense Item' object. On the left, there's a sidebar with options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, and Related Lookup Filters. The main area is titled 'Fields & Relationships' and lists six items. The table has columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The rows show:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Amount	Amount__c	Currency(16, 2)		
Created By	CreatedById	Lookup(User)		
Expense Item #	Name	Auto Number		✓
Expense Type	Expense_Type__c	Picklist		
Last Modified By	LastModifiedById	Lookup(User)		
Travel Approval	Travel_Approval__c	Master-Detail(Travel Approval)		✓

2. For data type, select Currency.
3. Enter these details.
  - a. For Field Label, enter Amount
  - b. For Length, enter 16
  - c. For Decimal places, enter 2
  - d. Select Required
4. Click Next, Next, then Save & New.

The screenshot shows the 'Expense Item Custom Field' configuration screen. The sidebar includes Options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, and Related Lookup Filters. The main area displays the 'Amount' field definition. It shows the Field Information table with the following data:

Field Label	Field Name	Description	Object Name	Data Type
Amount	Amount__c		Expense Item	Currency

Below the table, it shows the General Options section with 'Required' checked. The status bar at the bottom indicates it's 37°C Sunny, 1543, ENG, and the date is 11-04-2023.

### Activity – 2 :

#### Create The Expense Type Field.

1. Select Picklist as the data type.
2. Select Enter values, with each value separated by a new line.
3. Add these values:(Airfare, Hotel, RentalCars, Meals,Others)

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4. Select Required.
5. Click Next, Next, then Save & New.

The screenshot shows the Salesforce Object Manager interface. A custom field named 'Expense Type' has been created for the 'Expense Item' object. The 'Fields & Relationships' tab is selected. The 'Field Information' section shows the following details:

Field Label	Expense Type	Object Name	Expense Item
Field Name	Expense_Type	Data Type	Picklist
API Name	Expense_Type__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			

The 'General Options' section indicates that the field is required. The 'Validation Rules' and 'Where is this used?' buttons are also visible.

### Activity – 3 :

#### Create The Travel Approval Field.

##### Create the Travel Approval field

1. Select Master-Detail Relationship data type, click Next.
2. Select Travel Approval from the Related To menu.
3. Click Next four times, then click Save.

The screenshot shows the Salesforce Object Manager interface. A custom field named 'Travel Approval' has been created for the 'Expense Item' object. The 'Fields & Relationships' tab is selected. The 'Field Information' section shows the following details:

Field Label	Travel Approval	Object Name	Expense Item
Field Name	Travel_Approval	Data Type	Master-Detail
API Name	Travel_Approval__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			

The 'Master-Detail Options' section shows 'Related To' set to 'Travel Approval'. The 'Validation Rules' and 'Where is this used?' buttons are also visible.

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## MILESTONE 6 – IMPORT DEPARTMENT

## Import Departments

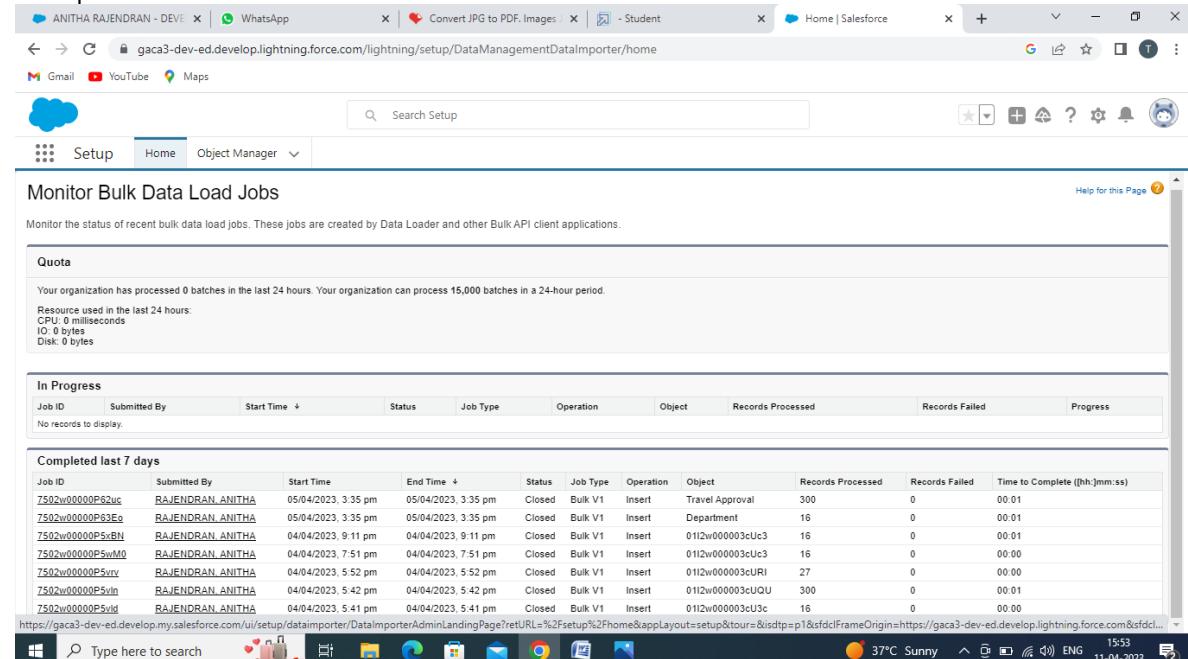
In order to complete this milestone, you need to download the reference file  
[https://developer.salesforce.com/files/TravelAppWorkshopFiles.zip?\\_\\_ga=2.108173638.597564088.1674441525-733189446.1673935386](https://developer.salesforce.com/files/TravelAppWorkshopFiles.zip?__ga=2.108173638.597564088.1674441525-733189446.1673935386)

## **Activity – 1 :**

From Setup, click the Home tab.

1. In the Quick Find box, enter Data Import and select Data Import Wizard.
  2. Click Launch Wizard!  
Click the Custom Objects tab and select the Departments object.
  3. Next, select Add new records.
  4. Drag and drop the Departments.csv file you downloaded using zip file or click the CSV icon and select your file. Select Next.
  5. Since the field names in the CSV file (CSV Header) are the same as the field names in your mapped Salesforce Object), the fields are automatically mapped. Click Next.
  6. The next screen gives you a summary of your data import. Click Start Import.
  7. Click OK on the popup.
  8. This takes you to the bulk import summary window that shows that the process has completed and records have been successfully imported or processed. You'll also get an email notification confirming

8. This takes you to the bulk import summary window that shows that the process has completed and 16 records have been successfully imported or processed. You'll also get an email notification confirming the import.



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### MILESTONE 7 – CUSTOMIZE USER INTERFACE

## Customize User Interface

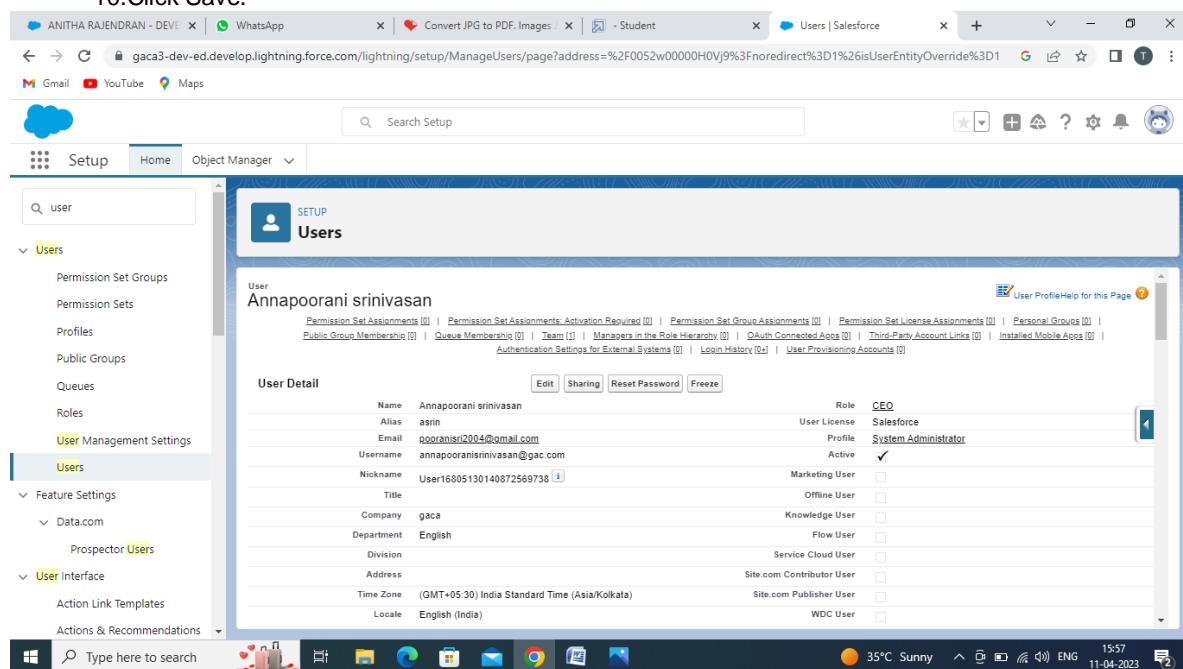
In this Milestone we are going to setup the users, customizing the page layouts.

### Activity – 1 :

#### Create User And Setup Approvals

1. Enter users in the quickfind box and select users.
2. Click new user.
3. Now give the name as you wish but the email must be real email address.
4. For username field follow the instructions
  - a. Firstname.<yourlastname>@<yourcompany>.com
  - b. ...or create a username of your choice that should be unique
5. Give the role as CEO, Profile as System Administrator and license as Salesforce.
6. From Setup, enter Users in the Quick Find box and select Users.
7. Select your user account in the list provided. (Click on your name in the All Users list.)
8. Click Edit.
9. Scroll down to Approver Settings. Set your manager as the user you have created recently.

#### 10. Click Save.



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### MILESTONE 8 – USE CUSTOMIZATION

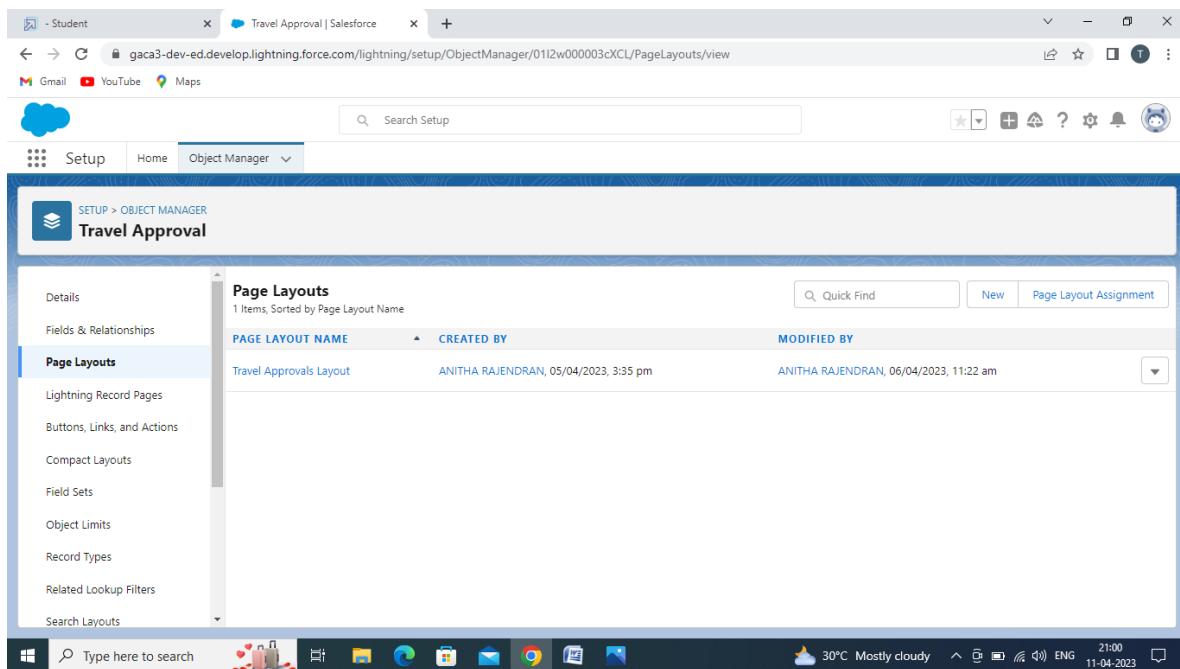
#### Use Customization

Customization refers to custom software development and coding to add robust features to your CRM platform. These features can be integrated with your business to have a scalable impact.

#### Activity – 1 :

#### Customize Travel Approval Object Page Layout

- 1.From the Object Manager, search for the travel approval object and click on page layouts and click edit.



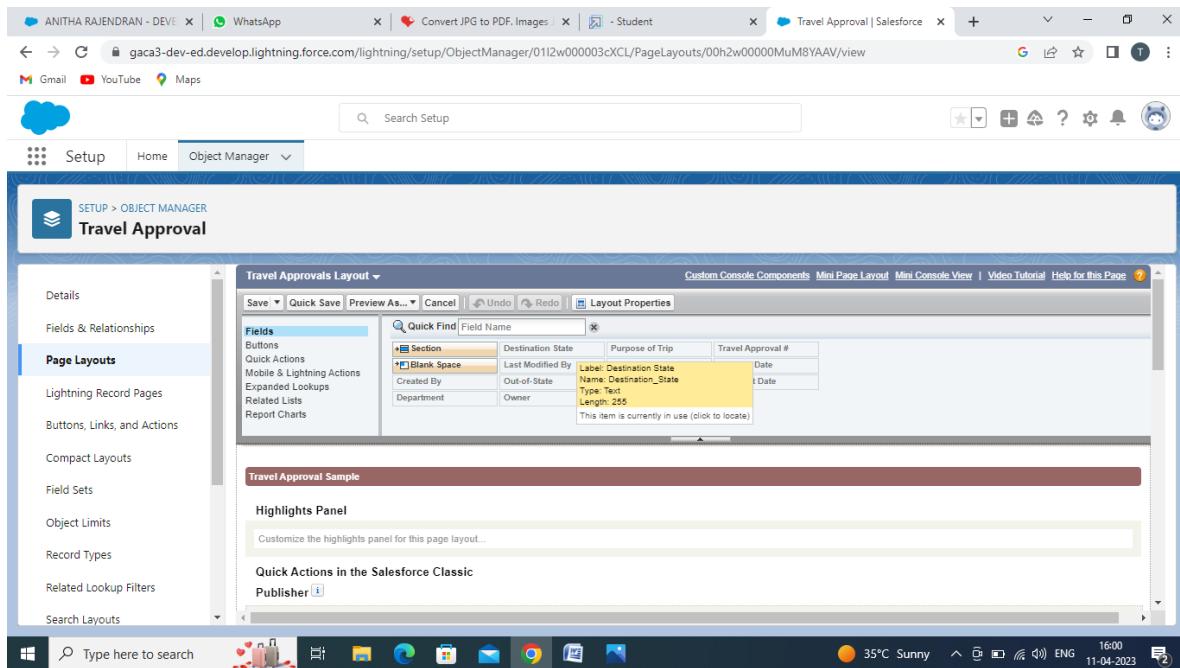
- 2.Drag Section from the top pane to the lower pane directly below the Information section. When dragging over the page, you get a visual indicator of where you can drop the new section.
- 3.Name the section Trip Info, leave the rest of the settings at their default values, then click OK.
4. Drag the Purpose of Trip field from the Information section to the Trip Info section.
- 5.Drag Trip Start Date and Trip End Date from the top pane into the left-hand column of the Trip Info section.
- 6.Drag Out-of-State and Destination State from the top pane into the right-hand column of the Trip Info section.
- 7.Drag the Department field from the left-hand column of the Trip Info section to the right-hand column.
- 8.Click Save

#### Note:

You may need to refresh your browser screen for the changes to show up.

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## MILESTONE 9 – ADD BUSINESS LOGIC TO TRAVEL APP

### Add Business Logic To Travel App

From this milestone we are going to create validation rules, rollup summary fields, formula fields, workflows and approval process.

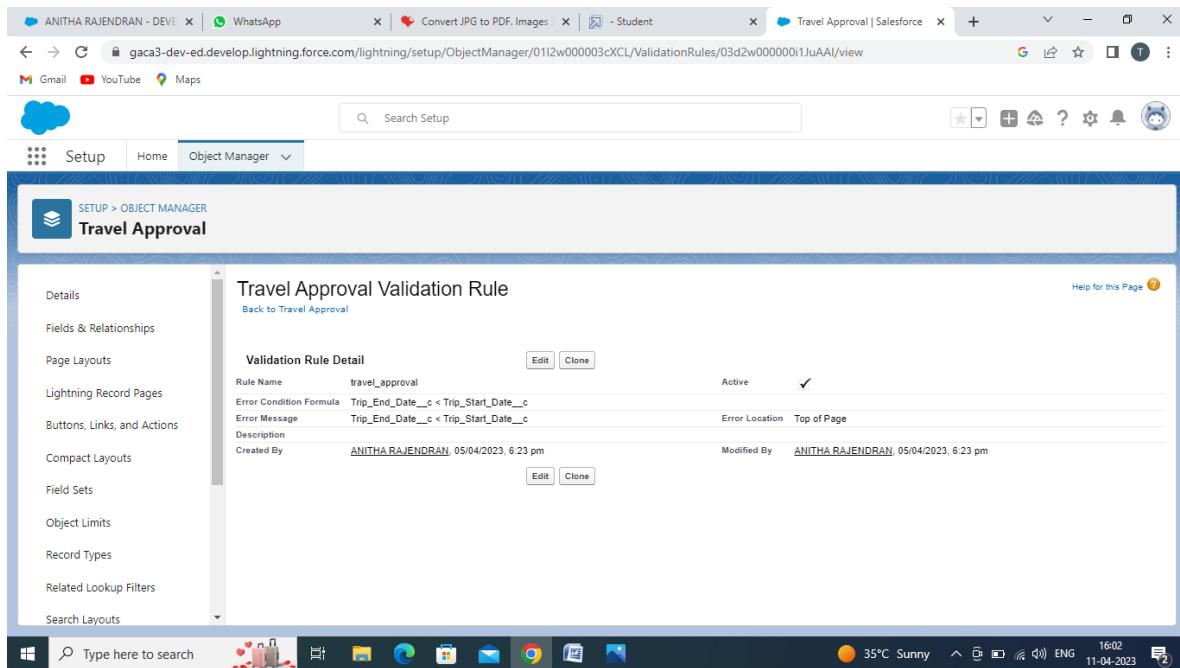
#### Activity – 1 :

##### Create Validation Rule

1. Search for the travel approval object from the object manager and open the object.
2. Click on validation rules and give your rule a name and make sure that the rule is set to active.
3. In the error condition formula enter `Trip_End_Date__c < Trip_Start_Date__c`.
4. For error location select field and pick trip end date as the location for error.

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### Activity – 2 :

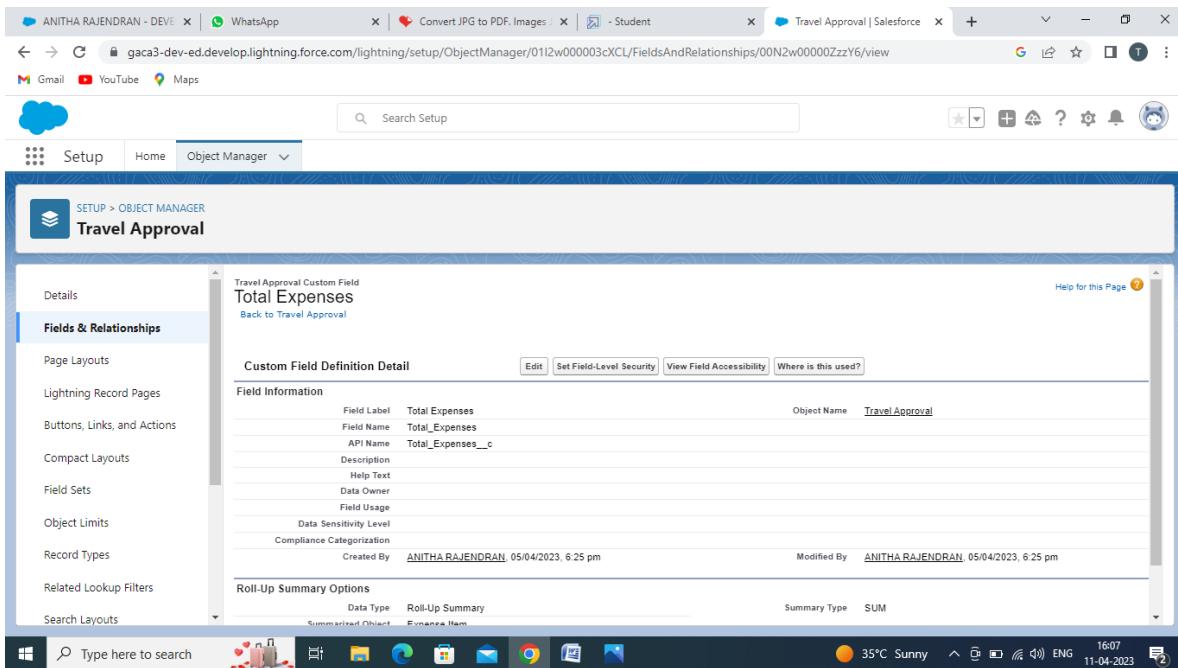
#### Create RollUp Summary Fields

Create RollUp Summary Fields

1. From the Travel Approval object, select Fields & Relationships.
2. Click New.
3. Select the Roll-Up Summary data type.
4. Click Next.
5. Enter the following values for the field details
  - a. Field Label: Total Expenses
  - b. Field Name: Total\_Expenses (this automatically gets set when you tab out of the Field Label field)
6. Click Next.
7. Configure the roll-up calculation.
  - a. Summarized Object: Expense Items
  - b. Roll-Up Type: SUM
  - c. Field to Aggregate: Amount
  - d. Filter Criteria: All records should be included in the calculation
8. Click Next, Next, Save

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### Activity – 3 :

#### 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 Home tab to navigate back to the main setup page.
3. Click Custom Code | Static Resources (or enter Static in the Quick Find to filter down the options).
4. Click New.
5. Enter the following values for your static resource
6. Now select the travel approval object.
7. Select Fields & Relationships.
8. Click New
9. Select Formula data type.
10. Click Next.
11. Enter the following values:

Field Label: Status Indicator

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

Formula Return Type: Text

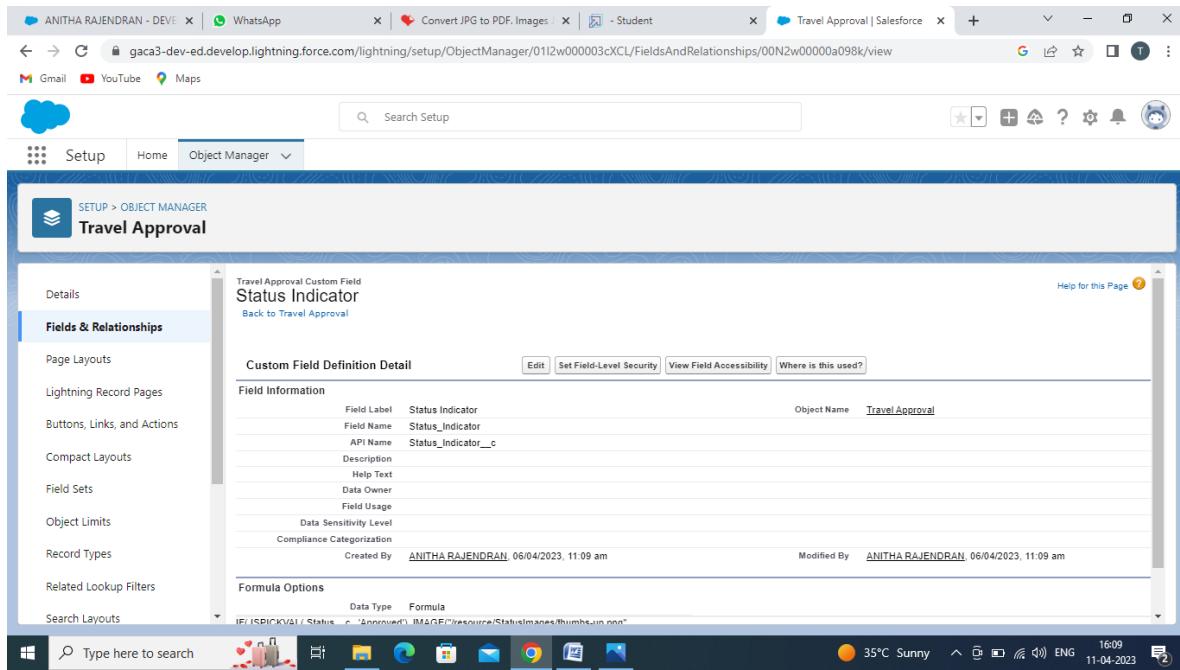
12. Click Next.

13. 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)))`

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14.Click Next, Next, Save.



## MILESTONE 10 – WHAT ARE REPORTS ?

### 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 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.

#### 4. Joined Reports:

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These types of reports let us create different views of data from multiple report types. The data is joined reports are organized in blocks. Each block acts as a subreport 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. A report type cannot include more than 4 objects.
- b. Once a report is created its report type cannot be changed.

### There are 2 types of report 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 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.

#### 2. Types Custom Report :

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:

#### 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 to this folder. Also, users with Manager 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.

### Activity :

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### Add Report

To create a report:

Go to the app then click on the reports tab

Click New Report.

Select report type from category or from report type panel or from search panel ? click on start report.

Customize your report, then save or run it.

The screenshot shows a Salesforce Lightning interface for a 'Travel Requests by Department' report. The report title is 'Report: Travel Approvals' and the specific report name is 'Travel Requests by Department'. The table displays 301 total records. The columns include Department (sorted by name), Travel Approval: Travel Approval #, Destination State, Trip Start Date, and Trip End Date. A summary row at the bottom indicates 16 rows for 'Audit Services'. The interface includes standard Salesforce navigation and search tools, as well as a system status bar at the bottom showing weather, battery, and connectivity information.

Department	Travel Approval: Travel Approval #	Destination State	Trip Start Date	Trip End Date	
Audit Services (16)	a0c2w000002PifI	OK	08/07/2019	09/07/2019	
	a0c2w000002PifI	FL	07/08/2019	07/08/2019	
	a0c2w000002Pig8	FL	18/02/2019	20/02/2019	
	a0c2w000002PigC	OK	04/11/2019	07/11/2019	
	a0c2w000002PigT	FL	31/05/2019	04/06/2019	
	a0c2w000002Pigb	OK	08/07/2019	08/07/2019	
	a0c2w000002Pigg	CA	22/11/2019	28/11/2019	
	a0c2w000002Pih4	FL	15/04/2019	15/04/2019	
	a0c2w000002Pis5	CA	07/04/2019	19/04/2019	
	a0c2w000002PidW	FL	09/08/2019	15/08/2019	
	a0c2w000002Pidg	TX	28/02/2019	06/03/2019	

The screenshot shows a Salesforce Lightning interface for a 'Travel Requests by Month' report. The report title is 'Report: Travel Approvals' and the specific report name is 'Travel Requests by Month'. The table displays 301 total records. The columns include Trip End Date (sorted by date), Travel Approval: Travel Approval #, Department, Destination State, and Trip Start Date. A summary row at the bottom indicates 17 rows for 'January 2019'. The interface includes standard Salesforce navigation and search tools, as well as a system status bar at the bottom showing weather, battery, and connectivity information.

Trip End Date	Travel Approval: Travel Approval #	Department	Destination State	Trip Start Date	
January 2019 (17)	a0c2w000002PifZ	Disability Determination Bureau	TX	12/01/2019	
	a0c2w000002Phf4	Division of Aging	FL	03/01/2019	
	a0c2w000002PifE	Division of Mental Health and Addiction	OK	03/01/2019	
	a0c2w000002PifF	Contract Management	GA	30/01/2019	
	a0c2w000002Pifx	Division of Disability and Rehabilitative Services	FL	29/01/2019	
	a0c2w000002PigX	Contract Management	FL	29/01/2019	
	a0c2w000002Pigk	Office of Early Childhood and Out-of-School Learning	GA	18/01/2019	
	a0c2w000002Pigm	Division of Family Resources	FL	21/01/2019	
	a0c2w000002Pigp	Office of Early Childhood and Out-of-School Learning	OK	04/01/2019	
	a0c2w000002PhcC	Division of Aging	TX	22/01/2019	
	a0c2w000002Pho	Quality and Compliance Office	TX	14/01/2019	

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### MILESTONE 11 - DASHBOARD

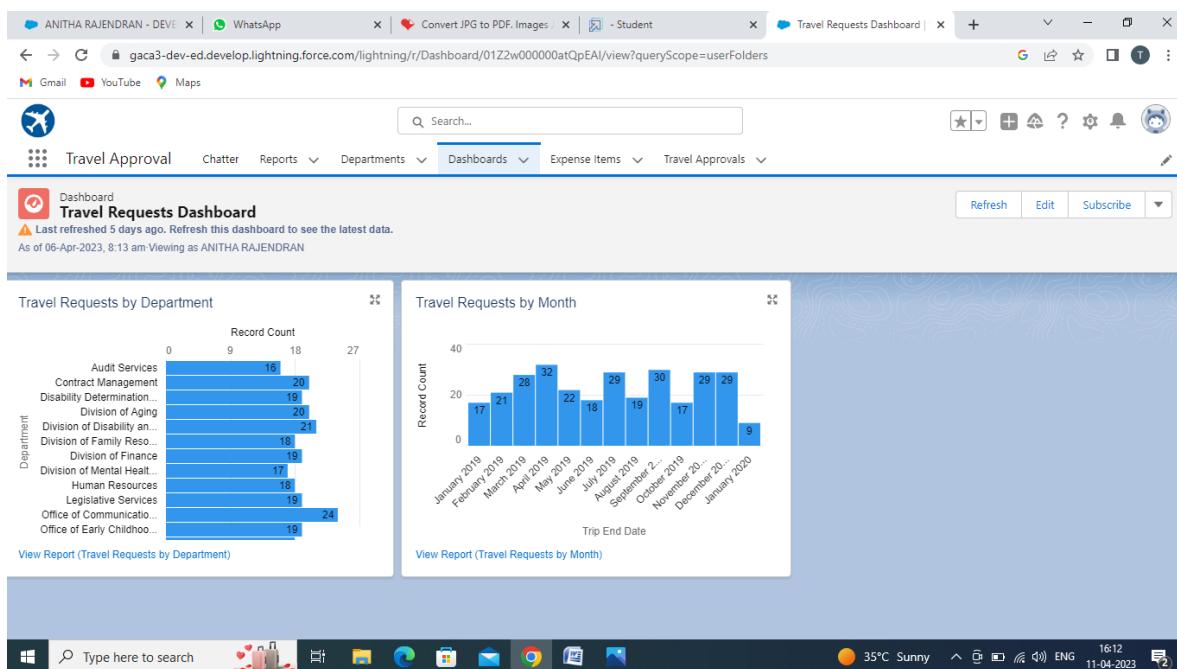
#### Dashboards

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.

#### Activity :

##### Create Travel Approvals Dashboard

- 1.Click on Dashboards tab from the travel approval application,click on new dashboard
- 2.Give your dashboard a name and click on +component , select the report which you created.
- 3.For the data visualization select any of the chart, table etc as your wish.



#### 4 Trailhead Profile Public URL

Team Lead - <https://trailblazer.me/id/arajendran62>

Team Member 1 - <https://trailblazer.me/id/amohanraj2>

Team Member 2 –

<https://trailblazer.me/id/nsent>  
[hilkumar3](https://trailblazer.me/id/hilkumar3)

Team Member 3 -  
<https://trailblazer.me/id/rselv>

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### 5 ADVANTAGES & DISADVANTAGE

<b>ADVANTAGE</b>	<b>DISADVANTAGE</b>
<p>1. <i>Approvals on time.</i> The entire process of planning and managing a trip is a long and stressful process. ...</p> <p>2. <i>Customize approval workflows.</i> The approval process can differ from company to company. ...</p> <p>3. <i>Increase compliance and reduce costs.</i> ...</p> <p>4. <i>Faster process.</i></p>	<p>1. <i>Assuming always-on data connection.</i> It's not always on. ...</p> <p>2. <i>Assuming high speed network access.</i> ...</p> <p>3. <i>UX design too small and packed.</i> ...</p> <p>4. <i>Poor data synchronization with the cloud.</i> Requesting too many permissions.</p>

### 6 APPLICATION

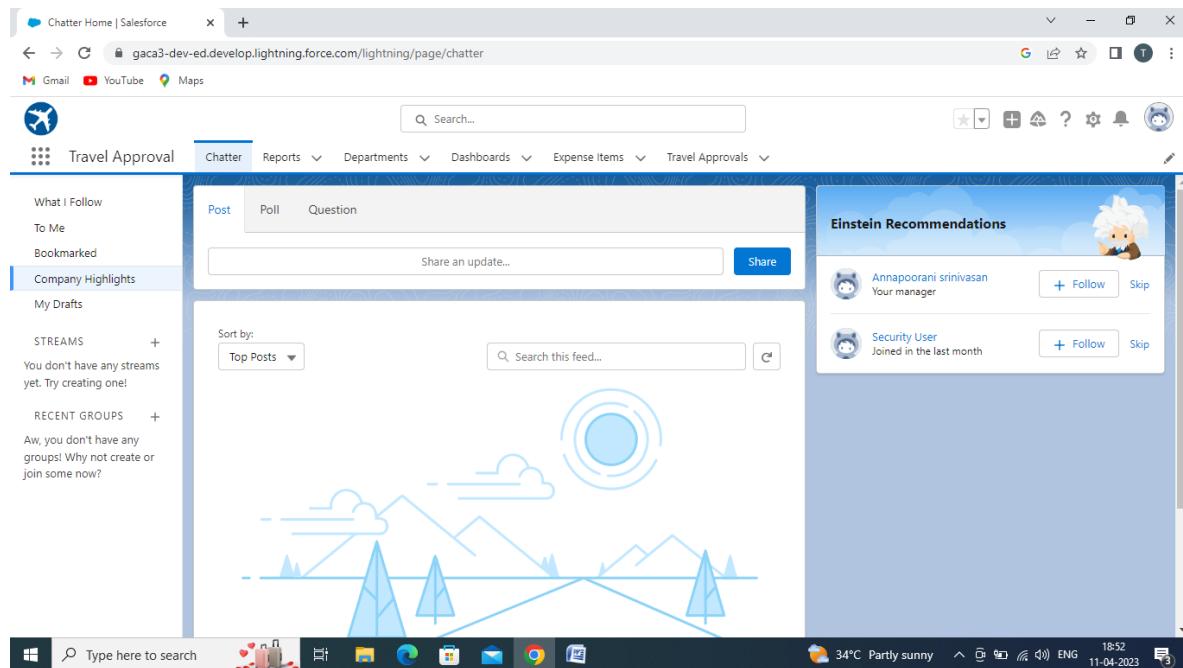
- The first and foremost thing that one must consider while creating a travel request approval workflow is where your employees will be requesting for funds.
- By educating the employees about the medium through which they will be

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requesting the fund, you can simplify the process.

- Next, ensure employees provide the information that is needed to request funds.
- Once the request is raised the managers will go through the requests raised by the employees to approve or reject the funds.
- Define the time the finance team will take to transfer the funds. Also, you can mention the processing time.
- Mention the account to which the money will



## 7 CONCLUSION

While the business travel approval process may seem overwhelming when everything is done manually, this doesn't have to be the case forever. By creating an organized plan, communicating it well, and using an automated, centralized system, you can change the way your company does business travel.

## 8 FUTURE SCOPE

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- The future of TRAVEL APPROVAL APPLICATION is more than just the future of Customer Relationship Management software. It is really the future of business.
- Travel request forms are designed to give management an overview of the intended business trip from both a cost and a strategic point of view. The fields that typically appear on a travel request form include; Employee name and contact information.

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