



# GOVERNMENT OF TAMILNADU

## Naan Muthalvan - Project-Based Experiential Learning

**Build an employee travel approval application for corporates**

Submitted by

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**PG and Research Department of Mathematics**



**M.V.MUTHIAH GOVERNMENT ARTS COLLEGE FOR WOMEN**

B(Affiliated To Mother Teresa Women's University, Kodaikanal)

Reaccredited with "A" Grade by NAAC

**DINDIGUL-624001.**

**APRIL - 2023**

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**Dindigul - 624 001**



**PG & RESEARCH DEPARTMENT OF COMPUTER SCIENCE**

**BONAFIDE CERTIFICATE**

This is to certify that this is a bonafide record of the project entitled, **“BUILD AN EMPLOYEE TRAVEL APPROVAL APPLICATION FOR CORPORATES”** done by **Ms.D.SIVARANJANI (20321ER024), Ms.M.SOUNDARIYA(20321ER025), Ms.M.SWATHI (20321ER026) and Ms.S.SWATHI (20321ER027)**. This is submitted in partial fulfillment for the award of the degree of **Bachelor of Science in Mathematics in M.V.MUTHIAH GOVERNMENT ARTS COLLEGE FOR WOMEN,DINDIGUL** during the period of December 2022 to April 2023.

**Project Mentor(s)**

**Head of the Department**

**Submitted for viva-voce Examination held on 12.04.2023**

# **BUILD AN EMPLOYEE TRAVEL APPROVAL APPLICATION FOR CORPORATES**

## **1 INTRODUCTION**

### **1.1.Overview**

Travel planning app is an application for booking travel reservations, tracking loyalty points, and browsing travel packages. A travel planning software package can be used by travel agencies, travel suppliers and consumers. Travel approval request app will help user quickly send a travel request through mobile using powers apps. A travel app is a single place for all bookings related to travel. Most travel apps have features to make all their bookings under one roof, be it flights, hotel, cabs or buses, which makes these very handy for making all the travel arrangements.

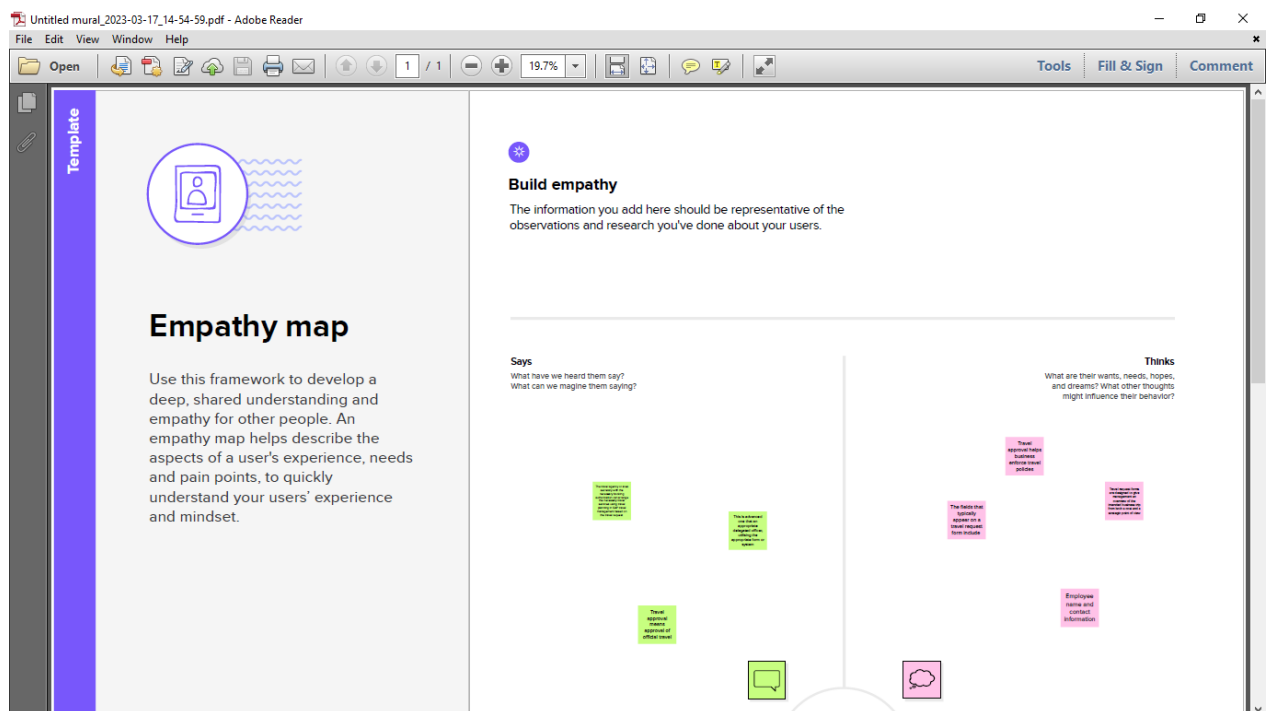
### **1.2.Purpose**

Purpose of the online travel apps to help customers to make the same type of bookings but without going to any websites and at the same time online travel agencies also focuses by doing specific promotions through these apps to louver more customers on their apps.

- ❖ Travel application is one place to get every service regarding traveling
- ❖ Travel mobile application improves and shows the best available trip packages for the destination.
- ❖ The purpose of travel sites is to make it easier for people to plan and book their trips.
- ❖ They provide a wide range of services, from helping you find the best deals on flights and hotels, to providing detailed information about destinations around the world

## 2.1. Empathy Map

It is a useful tool to help teams better understand their users. Creating an effective solution requires understanding the true problem and the person who is experiencing it.



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File Edit View Window Help

Open 1 / 1 19.7% Tools Fill & Sign Comment

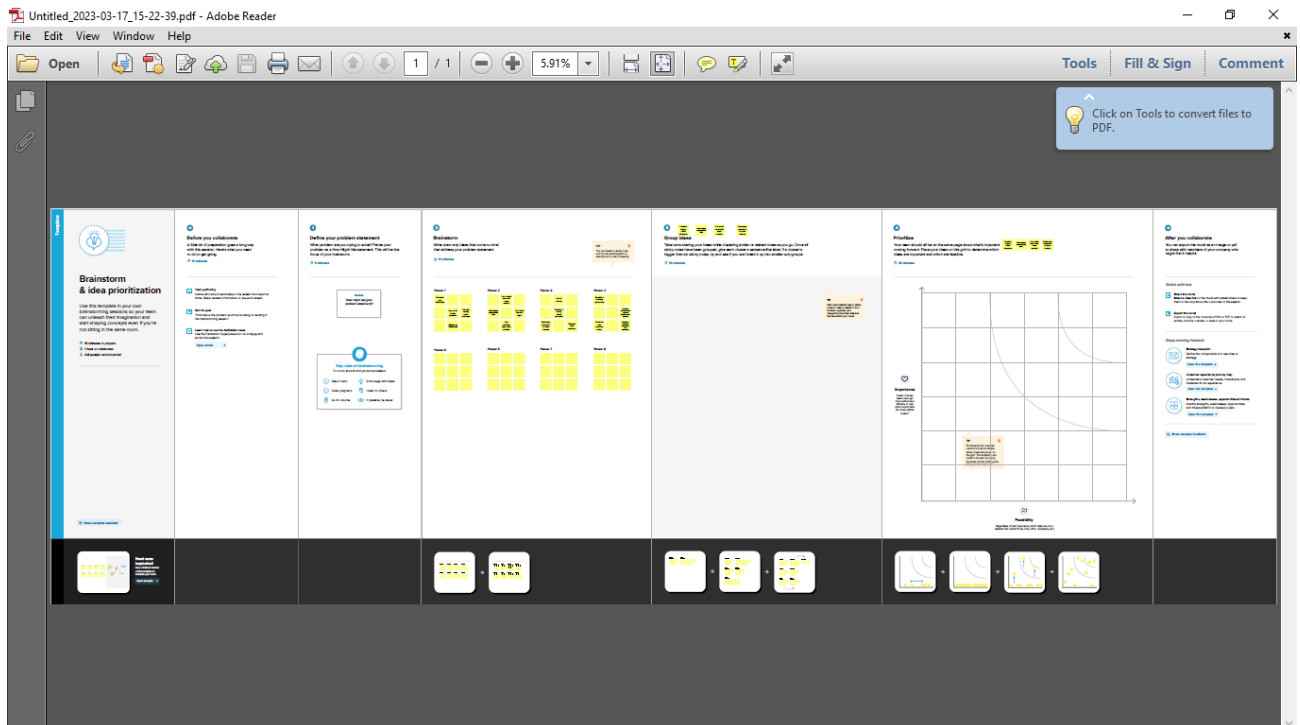
**Does**  
What behavior have we observed?  
What can we imagine them doing?

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

**Share template feedback**

**Need some inspiration?**  
See a finished version

## 2.2 Ideation & Brainstorming Map



### **3 RESULT**

#### **3.1.Data Model**

t

Object Name	Field in the object	
Department	Field label	Data Type
	Amount	Currency
Expense Items	Field label	Data Type
	Amount	Picklist
Travel Approval	Field Label	Data Type
	Travel Approval	Master-Detail Relationship
	Trip Start Date	Date
	Trip End Date	Date
	Out of State	Checkbox
	Destination State	Text
	Department	Look up relationship

## **3.2 Activity & Screenshot**

### **Milestone 1- 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>

#### **Activity-1:**

##### **Creating Developer Account**

Creating a developer org in salesforce.

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



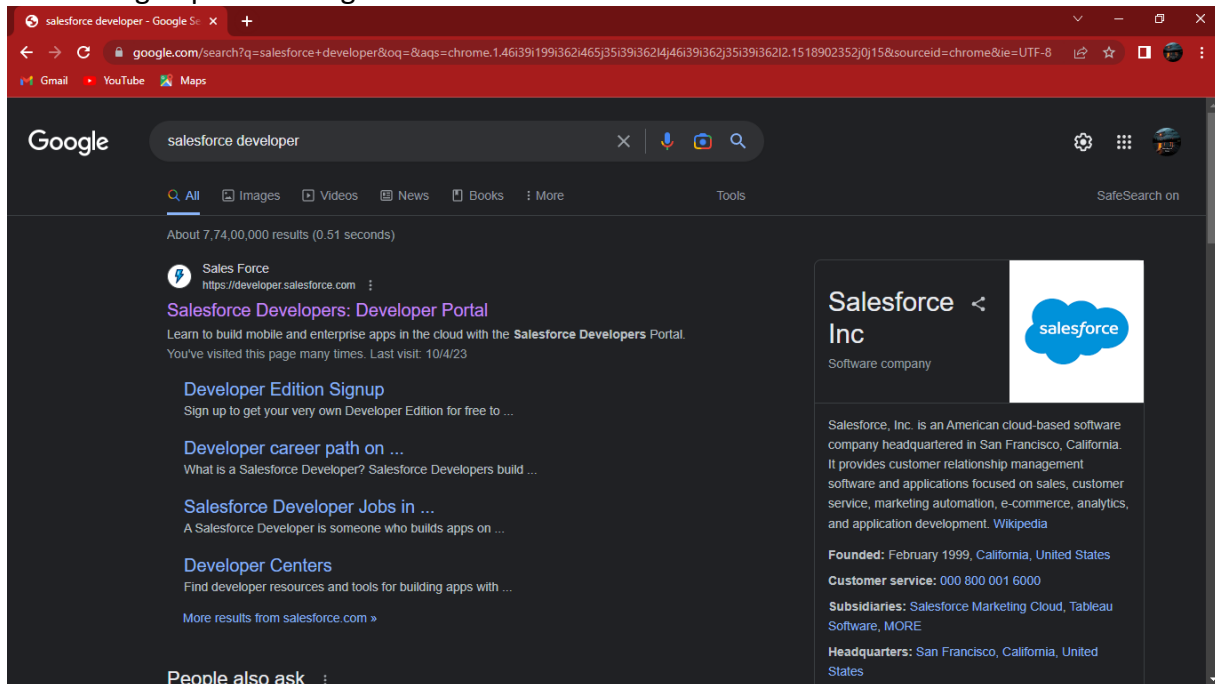
6. Postal Code: pin code

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

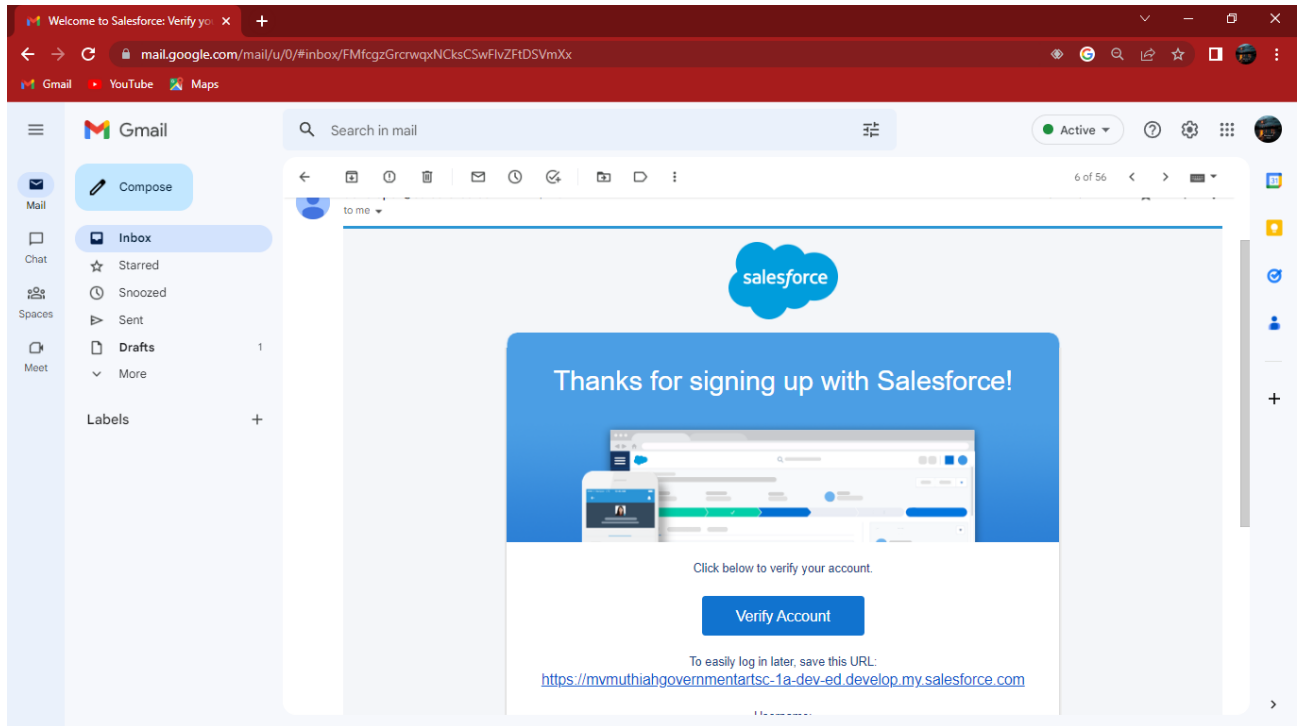
Click on sign up after filling these.



## Activity-2:

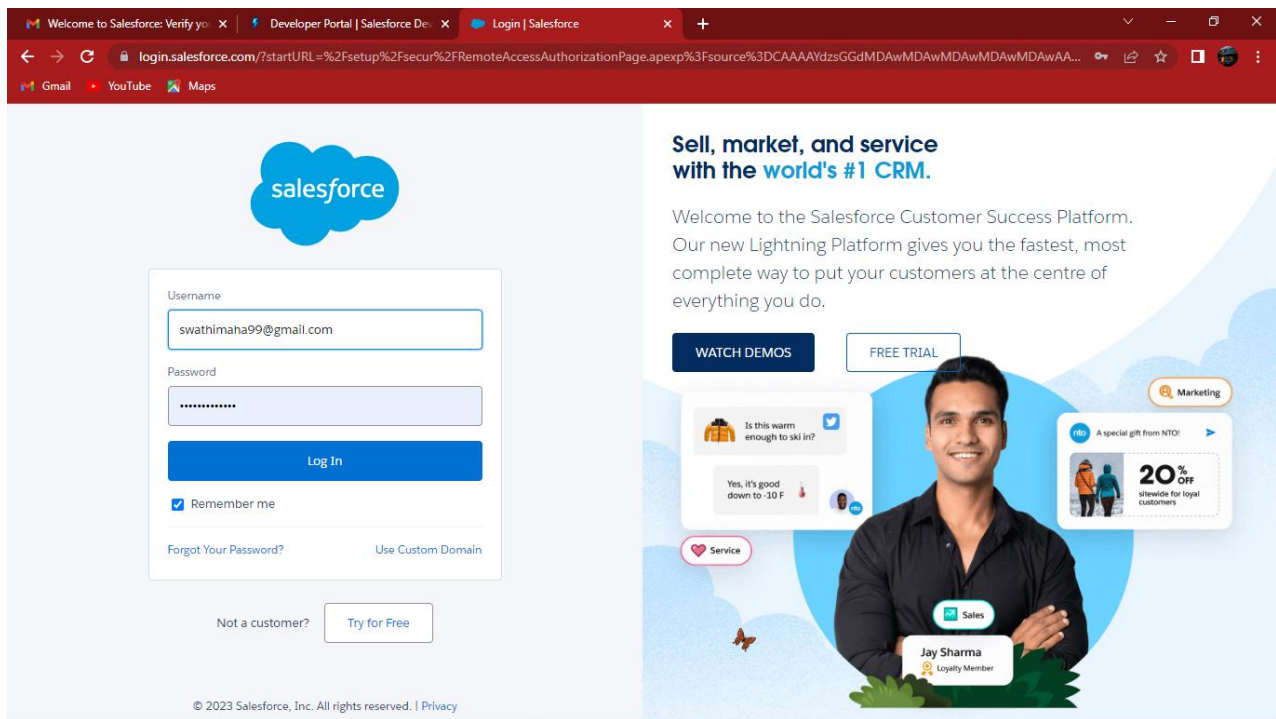
### Account Activation

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



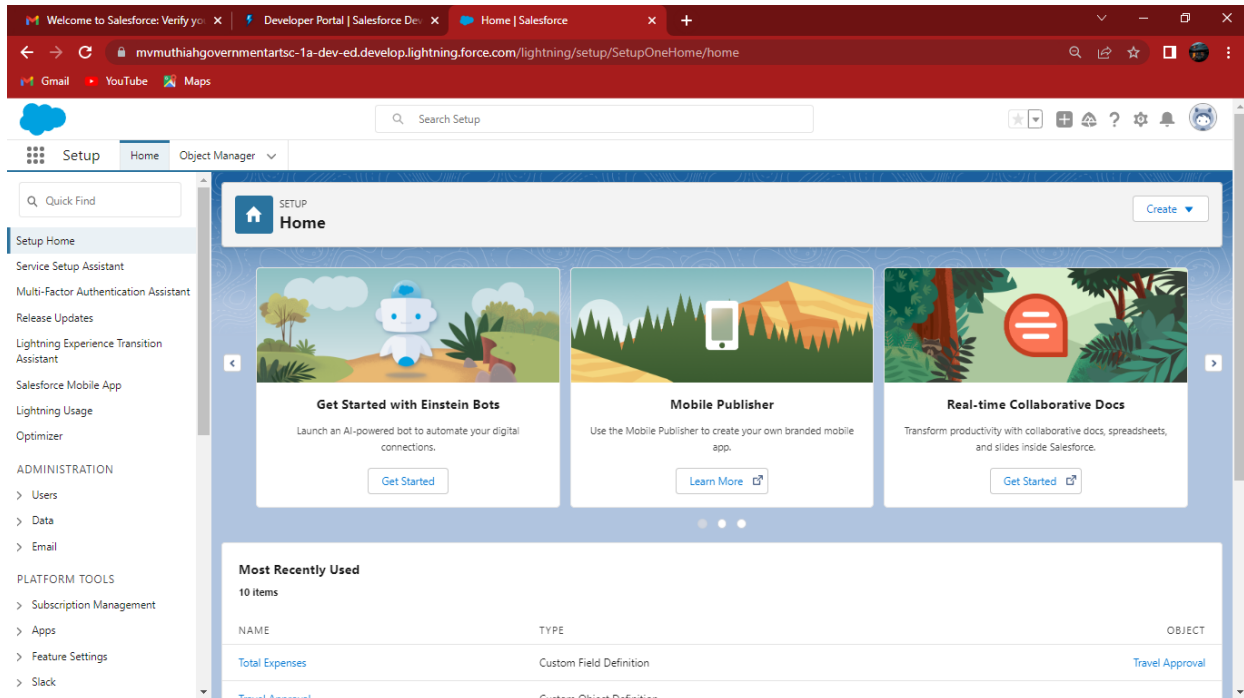
## Login To Your Salesforce Account

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



## Salesforce Login

<https://login.salesforce.com>



## Milestone 2 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://youtu.be/GR61sx2Kdis>

### Activity-1:

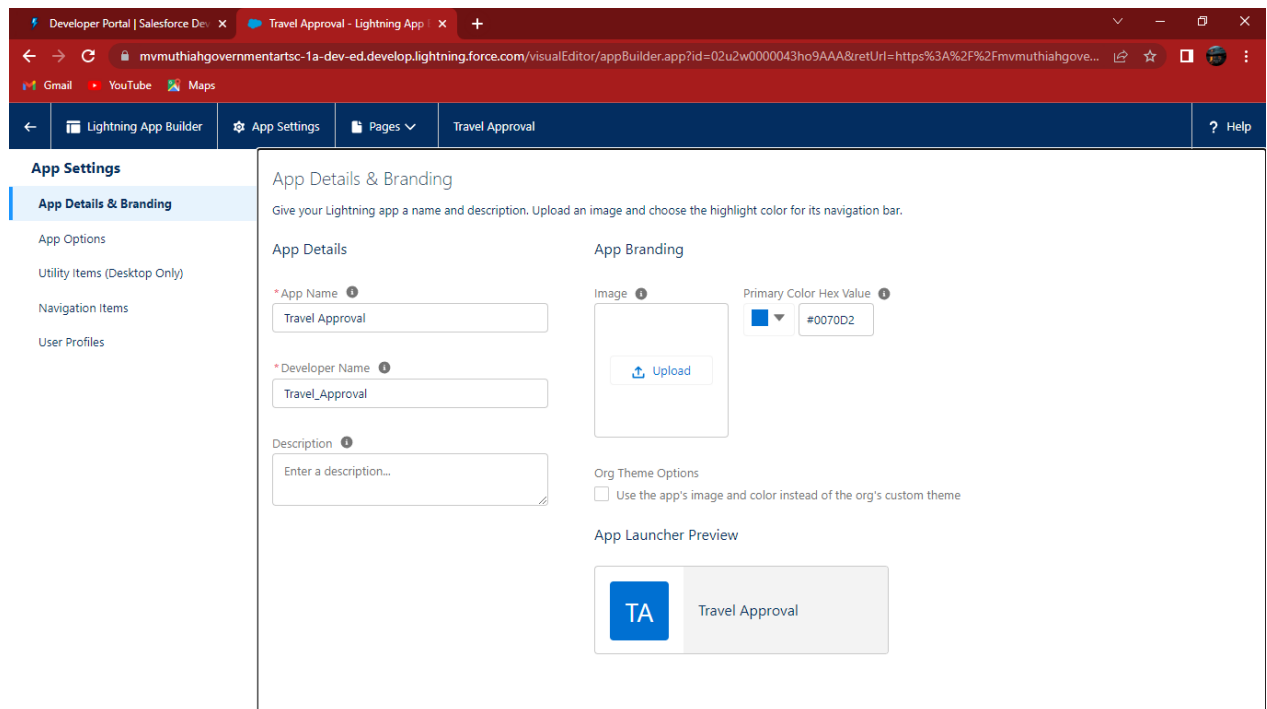
#### Create the Travel Application

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

- From Setup, enter App Manager in the Quick Find and select App Manager
- Click New Lightning App. Enter Travel Approval as the App Name, then click Next
- Under App Options, leave the default selections and click Next.
- Under Utility Items, leave as is and click Next.
- From Available Items, select Department, Travel Approval, Expense Item, Reports, and Dashboards and move them to Selected Items. Click Next.
- 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 Application app.



## Milestone 3 -What is an object?:

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:

**Standard Objects:** Standard objects are the kind of objects that are provided by salesforce.com such as users, contracts, reports, dashboards, etc.

**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 → Click on Object Manager → Click on Create → Click on Custom Object.

On Custom object defining page:

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

**Activity-2:****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 → click setup.

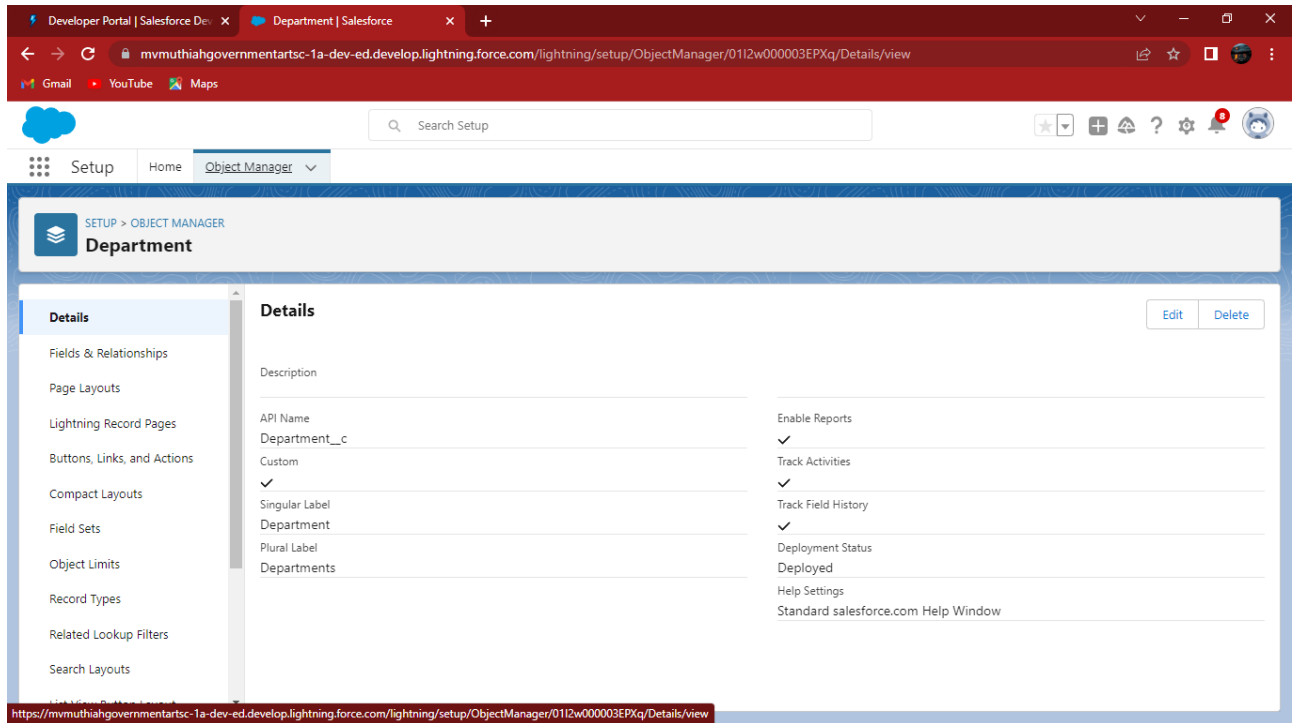
To create an object:

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

On Custom object defining page:

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

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	Value
Parameter	
Label	TravelApproval
Plural Label	TravelApprovals
Object Name	Travel_Approval (this field auto-populates)
Record Name	Travel Approval #
Datatype	Auto Number
DisplayFormat	TA-{00000}
Starting Number	1

Developer Portal | Salesforce Dev x Travel Approval | Salesforce x +

mvmuthiahgovernmentartsc-1a-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w000003EPH/Details/view

Gmail YouTube Maps

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

### Travel Approval

Details Edit Delete

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

Details

Description

API Name  
TravelApproval\_\_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

https://mvmuthiahgovernmentartsc-1a-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w000003EPH/Details/view

## Create Expenxe Item Object

Developer Portal | Salesforce Dev x Expense Item | Salesforce x +

mvmuthiahgovernmentartsc-1a-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w000003EPH/Details/view

Gmail YouTube Maps

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

### Expense Item

Details Edit Delete

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

Details

Description

API Name  
Expense\_Item\_\_c

Custom  
✓

Singular Label  
Expense Item

Plural Label  
Expense Items

Enable Reports  
✓

Track Activities  
✓

Track Field History  
✓

Deployment Status  
Deployed

Help Settings  
Standard salesforce.com Help Window

https://mvmuthiahgovernmentartsc-1a-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w000003EPH/Details/view

## Milestone 4-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:

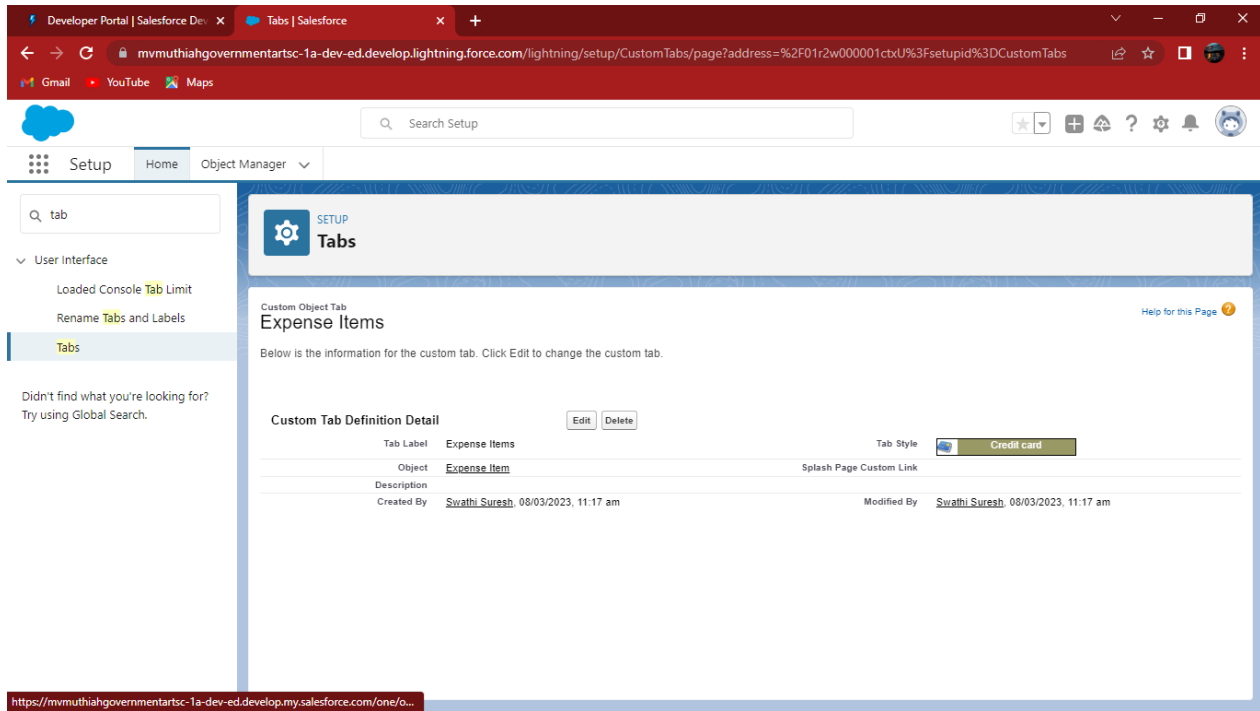
Now create a custom tab. Click the Home tab, enter Tabs in Quick Find and select Tabs. Under Custom Object Tabs, click New.

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

The screenshot shows the Salesforce Setup interface. The left sidebar has a search bar with 'tab' entered, and the 'User Interface' section is expanded, showing 'Loaded Console Tab Limit', 'Rename Tabs and Labels', and 'Tabs'. The main content area is titled 'Custom Object Tab Departments' and includes a 'Help for this Page' link. Below the title, it says 'Below is the information for the custom tab. Click Edit to change the custom tab.' The 'Custom Tab Definition Detail' section shows the following information:

Tab Label	Departments	Tab Style	Laptop
Object	Department	Splash Page Custom Link	
Description			
Created By	Swathi Suresh, 08/03/2023, 10:45 am	Modified By	Swathi Suresh, 08/03/2023, 10:45 am





## Milestone 4 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:

- 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.

- 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:

1. Click Fields & Relationships, and click New.
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.

Developer Portal | Salesforce Dev | Department | Salesforce

mvmuthiahgovernmentartsc-1a-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w000003EPXq/FieldsAndRelationships/view

Setup Home Object Manager

SETUP > OBJECT MANAGER  
**Department**

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

Fields & Relationships  
6 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Amount	Amount__c	Currency(16, 2)		
Created By	CreatedById	Lookup(User)		
Department	Department__c	Lookup(Department)		✓
Department Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓

## Activit-2:

### Create the Expense Type field.

- Select Picklist as the data type.
- Select Enter values, with each value separated by a new line.
- Add these values:(Airfare, Hotel, RentalCars, Meals,Others)
- Select Required.
- Click Next, Next, then Save & New.

Developer Portal | Salesforce Dev | Expense Item | Salesforce

mvmuthiahgovernmentartsc-1a-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w000003EPfI/FieldsAndRelationships/view

Setup Home Object Manager

SETUP > OBJECT MANAGER  
**Expense Item**

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

Fields & Relationships  
5 Items, Sorted by Field Label

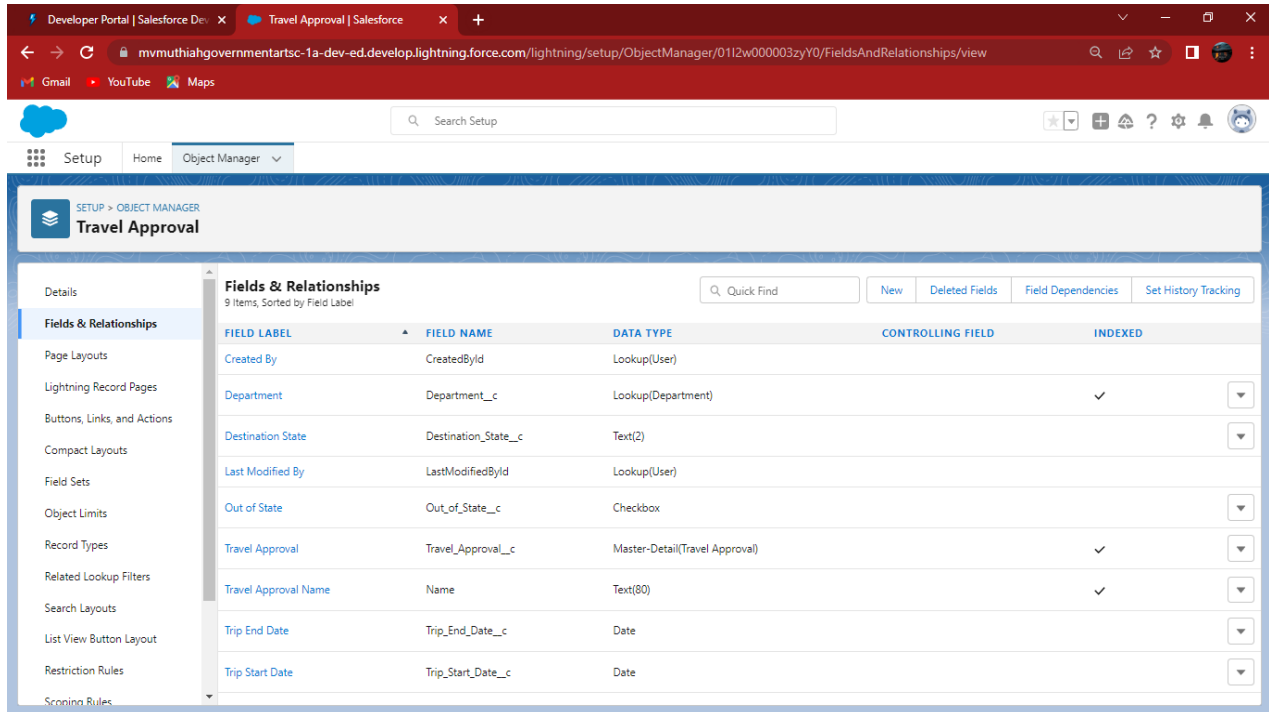
Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Amount	Amount__c	Picklist		
Created By	CreatedById	Lookup(User)		
Expense Item Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓

### Activit-3:

#### Create the Travel Approval field.

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



### Milestone 5-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 browse to 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 object (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 16 records have been successfully imported or processed. You'll also get an email notification confirming the import.

Home | Salesforce

Recently Viewed | Departments |

Search Setup

Setup Home Object Manager

data im

Integrations

Data Import Wizard

Didn't find what you're looking for? Try using Global Search.

### Bulk Data Load Jobs

Bulk Data Load Job  
7502w00000PLYrv

View the details of a bulk data load job.

[Back to List Bulk Data Load Jobs](#)

#### Bulk Data Load Job Detail

Job ID: 7502w00000PLYrv

Submitted By: Suresh

Start Time: 27/03/2023, 3:30 pm IST

End Time: 27/03/2023, 3:30 pm IST

Time to Complete (min): 00:02

Object: Department

External ID Field:

Content Type: CSV

Concurrency Mode: Parallel

API Version: 57.0

Job Type: Bulk V1

Operation: Insert

Queued Batches: 0

In Progress Batches: 0

Completed Batches: 1

Failed Batches: 0

Progress: 100%

Records Processed: 16

Records Failed: 0

Retries: 0

Status: Closed

Total Processing Time (min): 205

API Active Processing Time (min): 155

APIs Processing Time (min): 0

#### Batches

View Request	View Result	Batch ID	Start Time	End Time	Total Processing Time (min)	API Active Processing Time (min)	APIs Processing Time (min)	Records Processed	Records Failed	Retry Count	State Message	Status
<a href="#">View Request</a>	<a href="#">View Result</a>	7512w00000V3Lqx	27/03/2023, 3:30 pm	27/03/2023, 3:30 pm	205	155	0	16	0	0		Completed

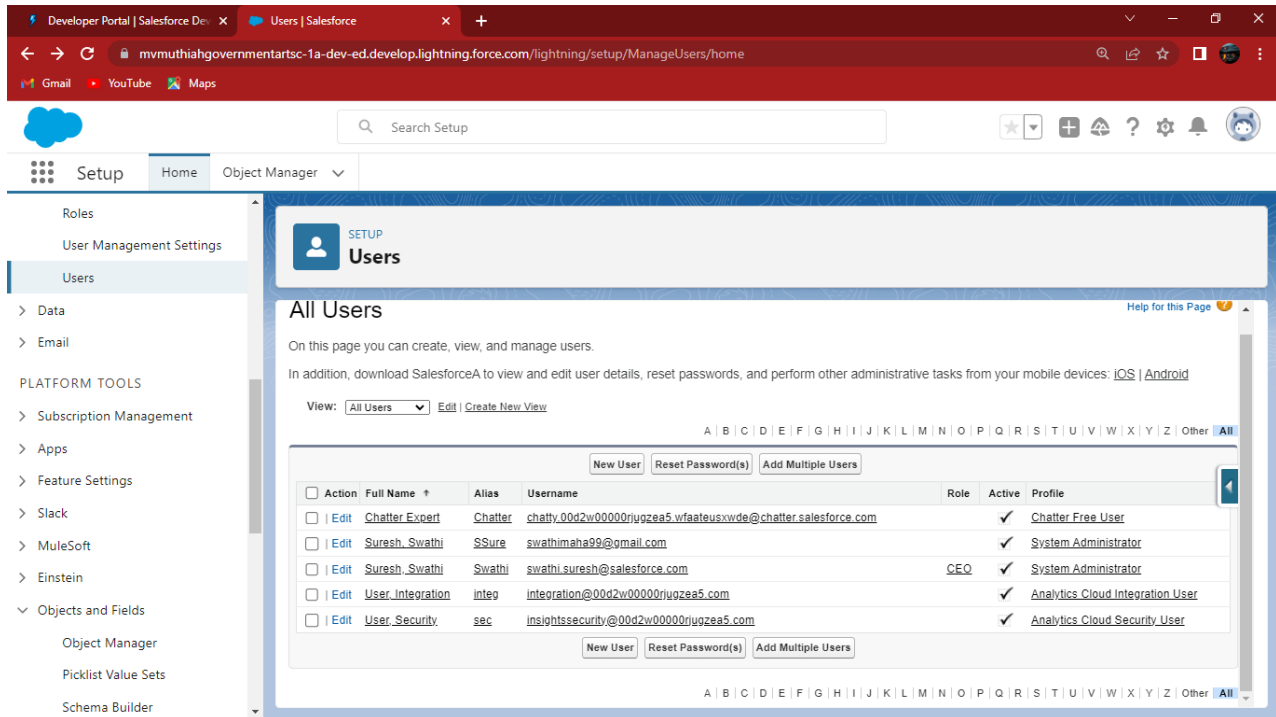
## Milestone 6-Customize User Interface

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
  - Firstname.<yourlastname>@<yourcompany>.com
  - ...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



## Milestone 7- Use customization

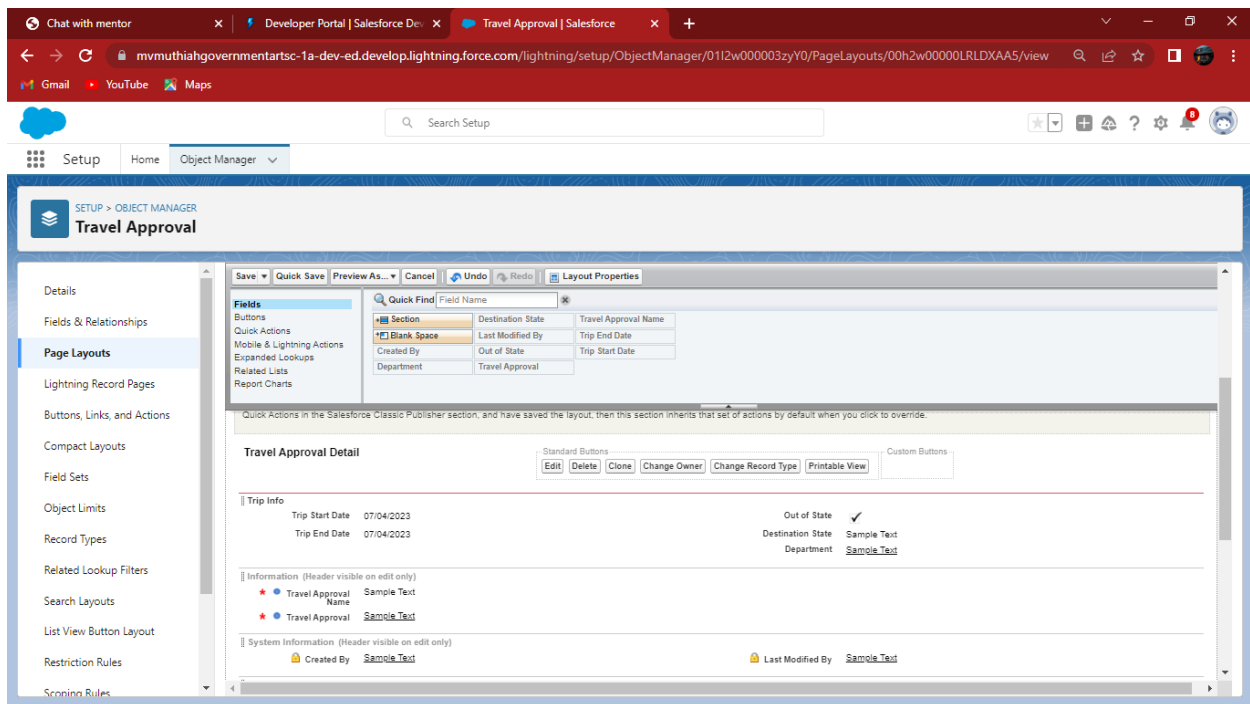
Customization refers to custom software development and coding to add robust features to your CRM platform. These features can be integrated with your business to have a scalable impact.

### 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.



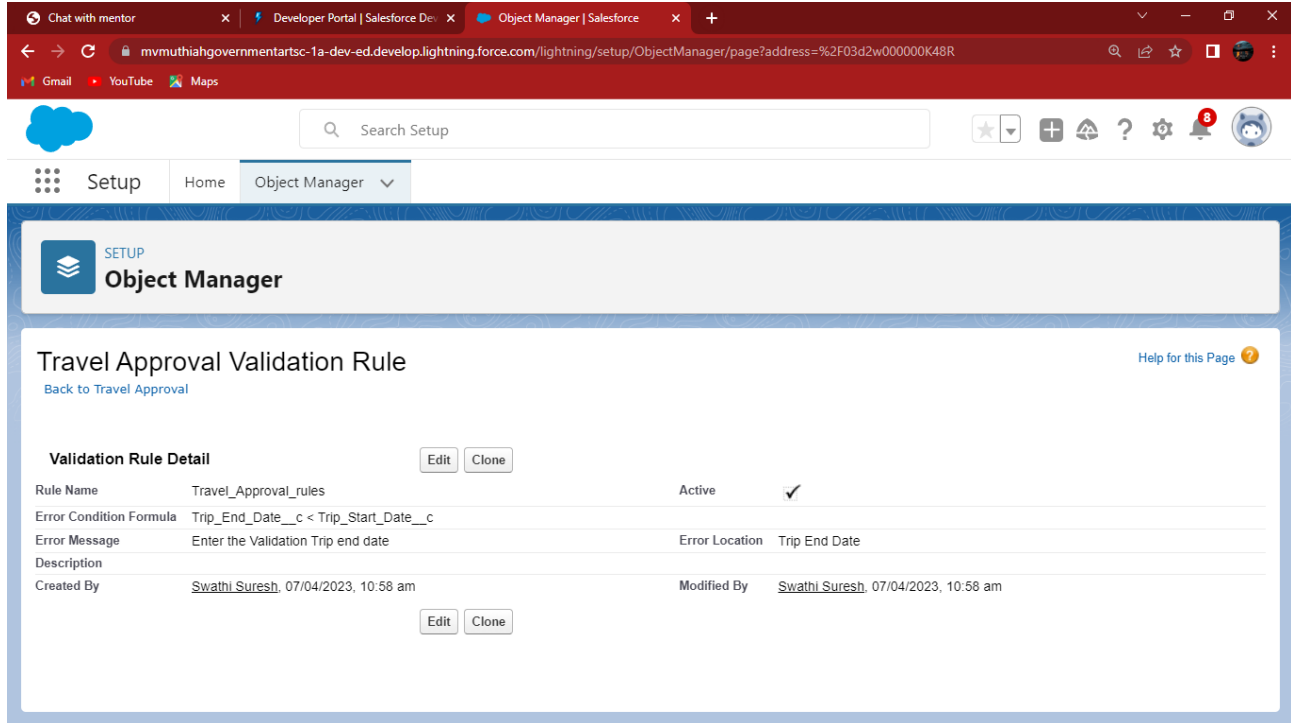
## Milestone 8-Add Business Logic to Travel App

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

### Activity-1:

#### Create Validation Rule

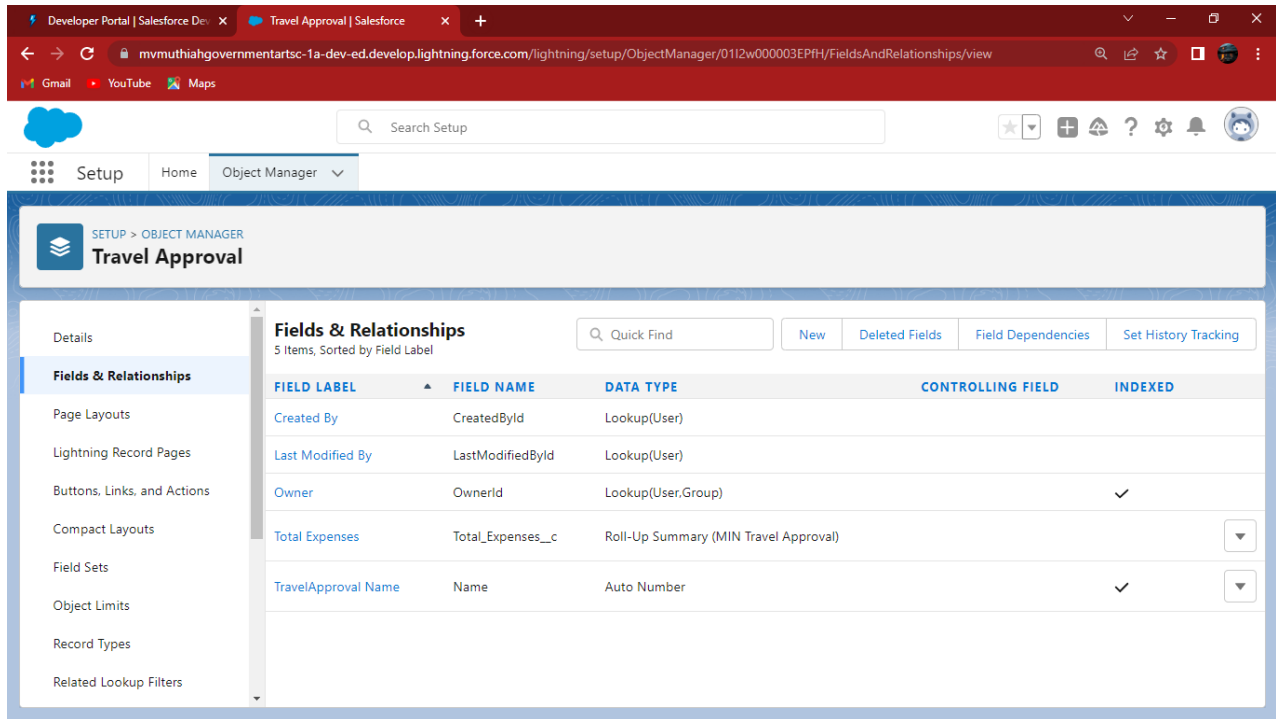
1. Search for the travel approval object from the object manager and open the object.
2. Click on validation rules and give your rule a name and make sure that the rule is set to active.
3. In the error condition formula enter `Trip_End_Date__c < Trip_Start_Date__c`.
4. For error location select field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



## Activity-2:

### 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
  - o Field Label: Total Expenses
  - o 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.
  - o Summarized Object: Expense Items
  - o Roll-Up Type: SUM
  - o Field to Aggregate: Amount
  - o Filter Criteria: All records should be included in the calculation
8. Click Next, Next, Save



### 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

Parameter	Value
Name	StatusImages
File	StatusImages.zip
Cache Control	Private

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



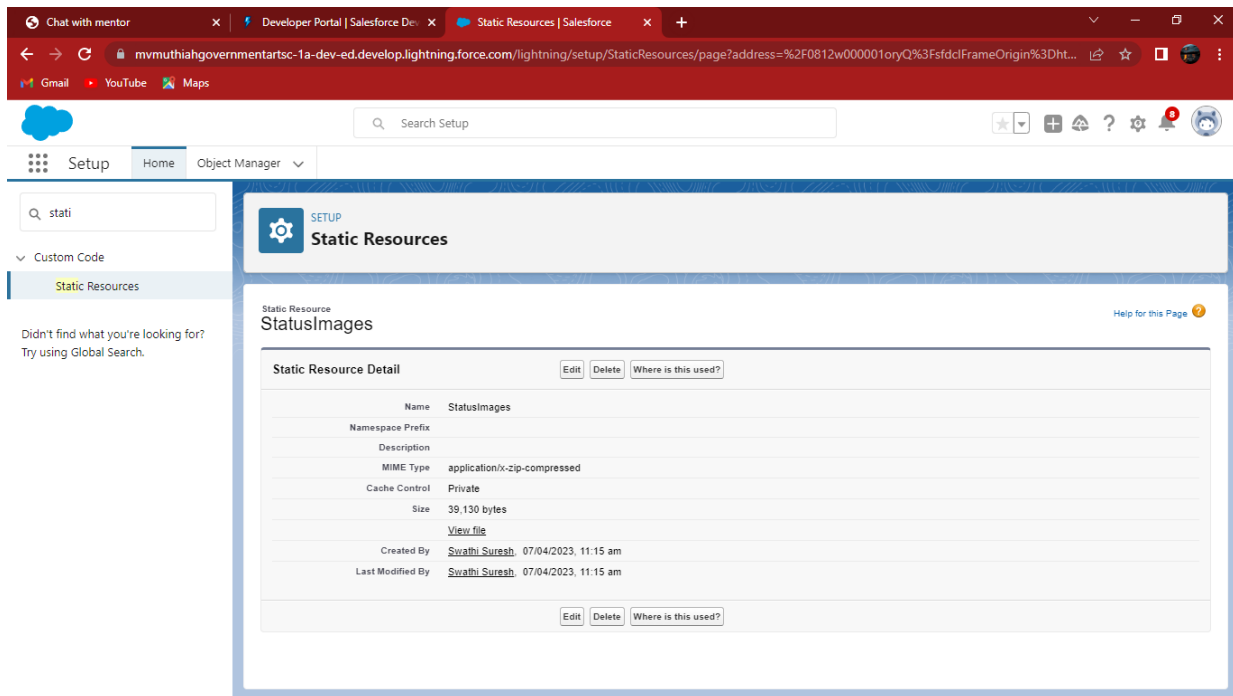
12. Click Next.

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)))
```

14. Click Next, Next, Save.



## Milestone 10-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:**

These types of reports let us create different views of data from multiple report types. The data in joined reports are organized in blocks. Each block acts as a 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 report type cannot include more than 4 objects.
- 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. Custom Report Types:**

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

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

There are 3 types of access levels of folders:

##### **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

### Add Report

To create a report:

Go to the app → 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 web browser window with the URL `mvmuthiahgovernmentartsc-1a-dev-ed.develop.lightning.force.com/lightning/o/Department__c/list?filterName=Recent`. The page displays a 'Recently Viewed' list for the 'Departments' object. The list contains three items: 'Computer Science', 'Physics', and 'Mathematics'. The page also shows a search bar and a 'New' button.

	Department Name	
1	Computer Science	
2	Physics	
3	Mathematics	

Developer Portal | Salesforce Dev | Recently Viewed | Expense Items

mvmuthiahgovernmentartsc-1a-dev-ed.develop.lightning.force.com/lightning/o/Expense\_Item\_\_c/list?filterName=Recent

Travel Approval Departments Travel Approvals Expense Items Reports Dashboards

Expense Items Recently Viewed

3 items • Updated a few seconds ago

Search this list...

	<input type="checkbox"/> Expense Item Name	
1	<input type="checkbox"/> Food	
2	<input type="checkbox"/> Cars	
3	<input type="checkbox"/> Rent	

Developer Portal | Salesforce Dev | Recently Viewed | Travel Approvals

mvmuthiahgovernmentartsc-1a-dev-ed.develop.lightning.force.com/lightning/o/TravelApproval\_\_c/list?filterName=Recent

Travel Approval Departments Travel Approvals Expense Items Reports Dashboards Purpose of Trips

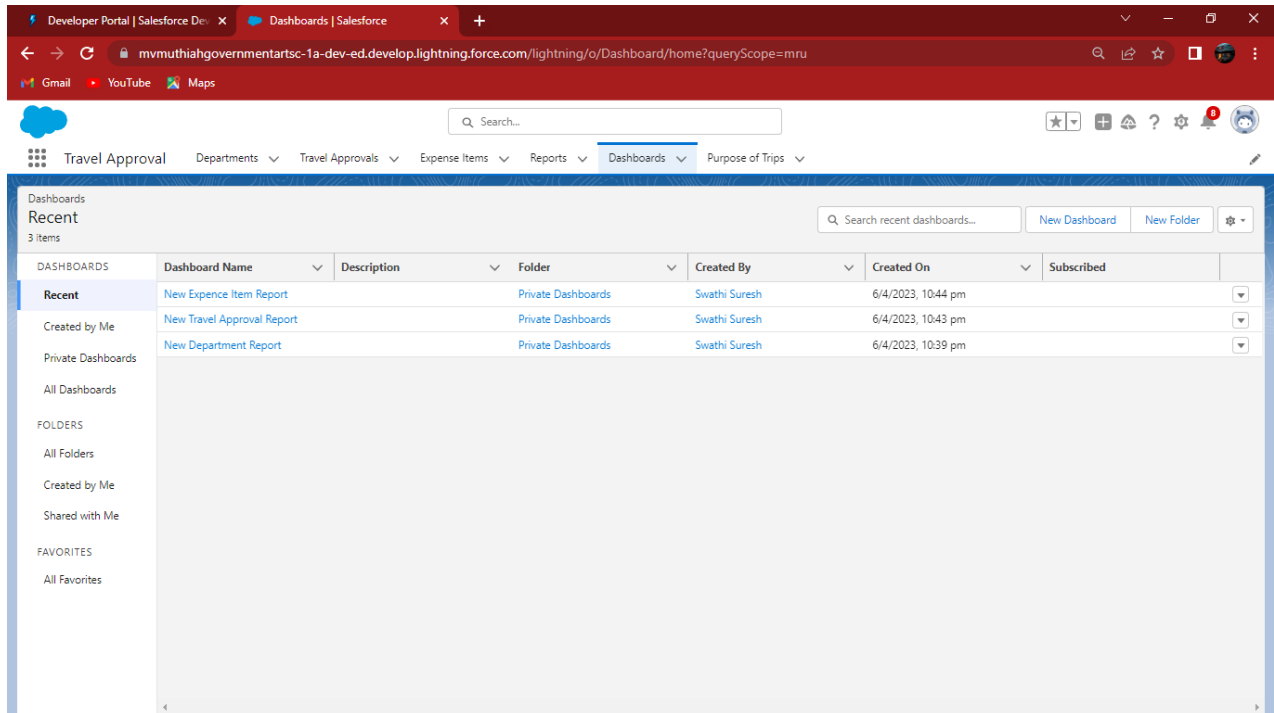
Travel Approvals Recently Viewed

3 items • Updated a few seconds ago

Search this list...

	<input type="checkbox"/> TravelApproval Name	
1	<input type="checkbox"/> TA-00003	
2	<input type="checkbox"/> TA-00002	
3	<input type="checkbox"/> TA-00001	

https://mvmuthiahgovernmentartsc-1a-dev-ed.develop.lightning.force.com/lightning/o/TravelApproval\_\_c/home



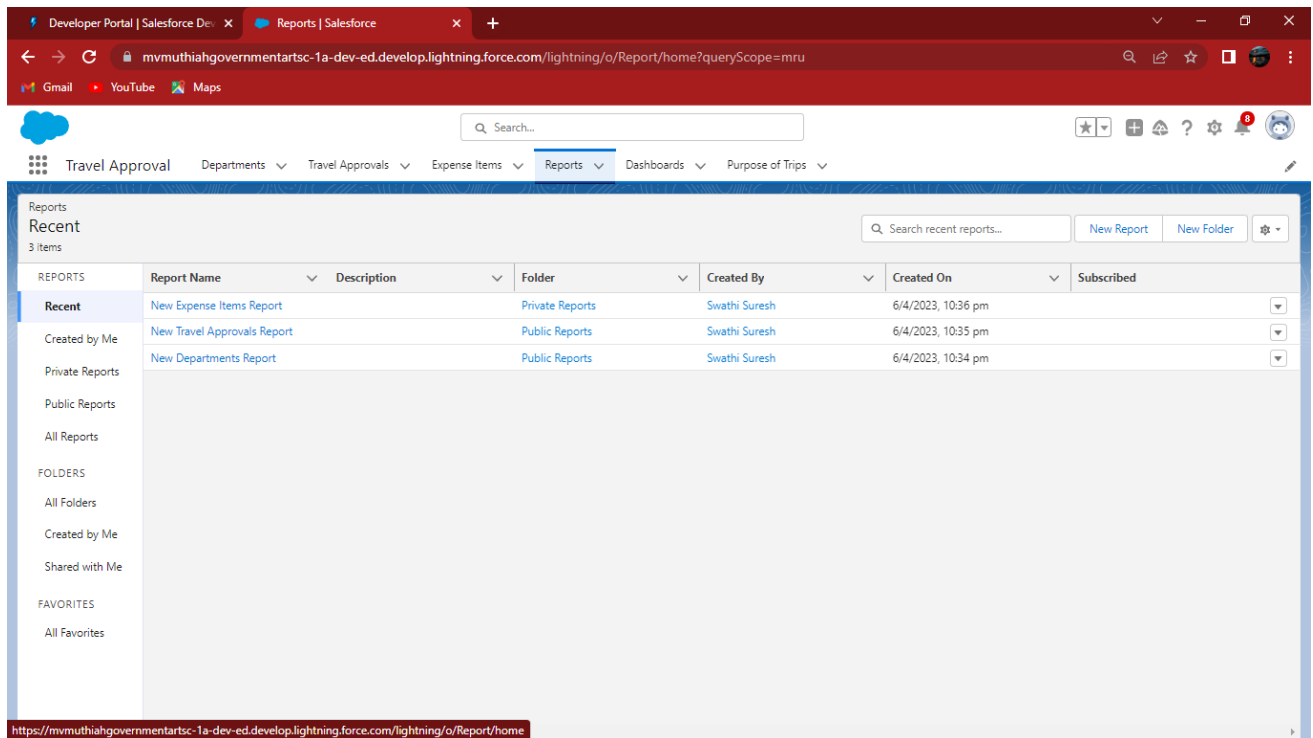
## Milestone 11- Dashboards:

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:

Team Member 1:D. Sivaranjani (20321ER024)

Team Member 2:M. Soundariya (20321ER025)

Team Member 3:M. Swathi (20321ER026)

Team Member 4:S. Swathi (20321ER027)

## **5 ADVANTAGES AND DISADVANTAGES**

### **Advantages**

- ✓ Online travel sites still provide cost savings and convenience that makes the sometimes convoluted experience worth it.
- ✓ Travel application is one place to get every service regarding traveling.
- ✓ Easy Transaction.
- ✓ Easy to Spread Information
- ✓ Digital Customer, Digital Services.
- ✓ Constant Reminder.
- ✓ Recent travel apps and websites have completely changed the travelling experience of the traveler.
- ✓ By using these apps find best deals, booking trip and simply plan your travel with just a few click.
- ✓ Travel Apps Ease Payment Methods.
- ✓ Travel Apps Provide Easy of Booking.

- ✓ Developing a travel app that helps people plan delightful travel experiences and easily fulfill them can help you build a sustainable and highly profitable business model.
- ✓ Much like some of the most successful companies of our time have done.

## **Disadvantages**

- A recent survey found that 59 percent of respondents had travel issues caused by technology, from fluctuating prices to incorrect bookings
- The biggest issue for many travelers was price.
- Travel booking sites aggregate flight, lodging, and other costs in real time across countless airline carriers and hotels.
- The apps and websites sometimes aren't the best, either.
- Assuming always-on data connection.
- It's not always on.
- Assuming high speed network access.
- Poor data synchronization with the cloud.
- Requesting too many permissions

## **6 APPLICATIONS**

- Booking system.
- In-app translation functionality.
- Travel itinerary generator.
- User ratings and trip reviews.
- Weather forecasting.
- Emergency services
- Most of the time is saved.
- Helps Better Plan Trip.

## **7 CONCLUSION**

Travel applications simplify the management processing in traveling. Fast processing and immediate results with high security. Minimizing human efforts and cost efficient databases. Navigation through the site is easy.