UNIVERSITY COLLEGE OF ENGINEERING, NAGERCOIL NAAN MUDHALVAN PROJECT REPORT

DEPARTMENT OF MECHANICAL ENGINEERING

TOPIC : BUILD A EMPLOYEE TRAVEL APPROVAL APPLICATION FOR CORPORATES

Submitted by

NAME	NM ID	REG NO
ARUNRAJ V	C9C71743E9EA8BC91824C28C82CF6A64	962820114008
NIKSON RAJA P	10EA2E4BD2C9C4BA19C4B48F0F11C9D4	962820114026
RAGUL M	6BF6F68E0122B308DDC422B3068F87F6	962820114028
KABILESH VARSHAN	DF8C475D6672B44B6E04253439B6713E	962820114020
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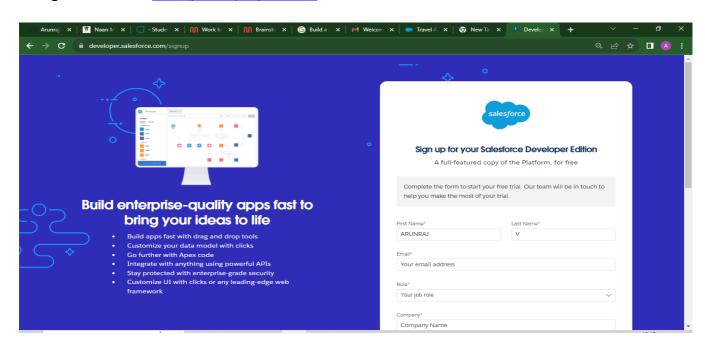


ANNA UNIVERSITY: CHENNAI 600 025

Introduction: "Building an 'Employee Travel Approval Application for Corporates' in Salesforce is a strategic initiative aimed at simplifying and enhancing the travel approval process for corporate employees and administrators. This innovative solution will streamline travel requests, automate approval workflows, ensure compliance with corporate policies, and provide real-time visibility into travel expenses. By leveraging the power of Salesforce, our project seeks to improve the overall efficiency and experience of corporate travel management while enabling data-driven decision-making."

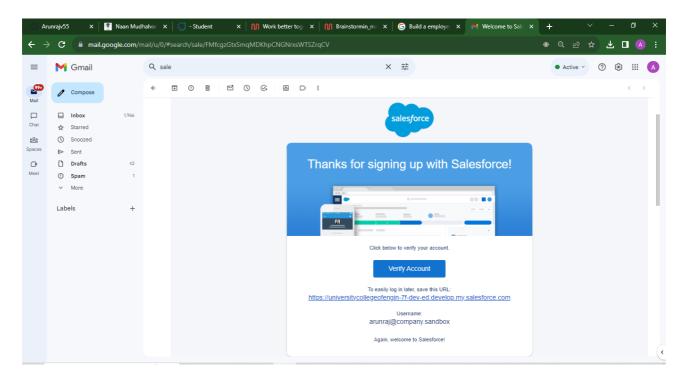
Milestone – 01: Create a Developer Org

- 1. Go to developers.salesforce.com/
- 2.Click on sign up.
- 3. On the sign up form, enter the following details:
 - a. First name & Last name ARUNRAJ & V
 - b. Email arunrajvelu5025@gmail.com
 - c. Role: Developer
 - d. Company: UNIVERSITY COLLEGE OF ENGINEERING, NAGERCOIL
 - e. County: India
 - f. Postal Code: 629004
 - g. Username: arunraj@company.sandbox

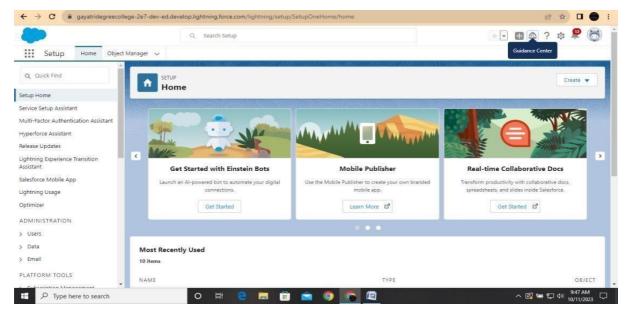


Account Activation

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



- 1. Login To Your Salesforce Account
- 2. Go to salesforce.com and click on login.
- 3. Enter the username and password that you just created.
- 4. 3. After login this is the home page which youwill see.



Milestone - 02: objects creation

Object – Travel Approval

- 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 on 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 Approval
- 7. Record Name: Travel Approval
- 8. Check the Allow Reports checkbox
- 9. Check the Allow Search checkbox
- 10. Click Save

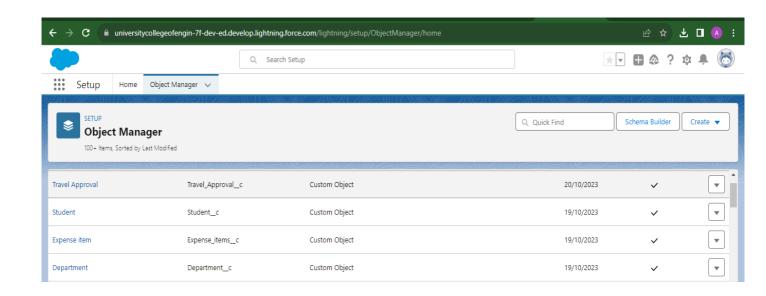
Object - Department

- 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 on the extreme right you will find a Create Drop down click on that andselect Custom Object
- 4. On the Custom Object Definition page, create the object as follows:
- 5. Label: Visa Slot
- 6. Plural Label: Department
- 7. Record Name: **Department Number**(Auto Number)
- 8. Check the Allow Reports checkbox
- 9. Check the Allow Search checkbox
- 10. Click Save.

Object - Expense item

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 on the extreme right you will find a Create Drop down click on that and select Custom Object.
- 4. On the Custom Object Definition page, create the object as follows:
- 5. Label: Expense item
- 6. Plural Label: Expense item
- 7. Record Name: Expense item name (Auto Number)
- 8. Check the Allow Reports check box
- 9. Check the Allow Search check box
- 10. Click Save



Milestone - 03: Creation of Tabs

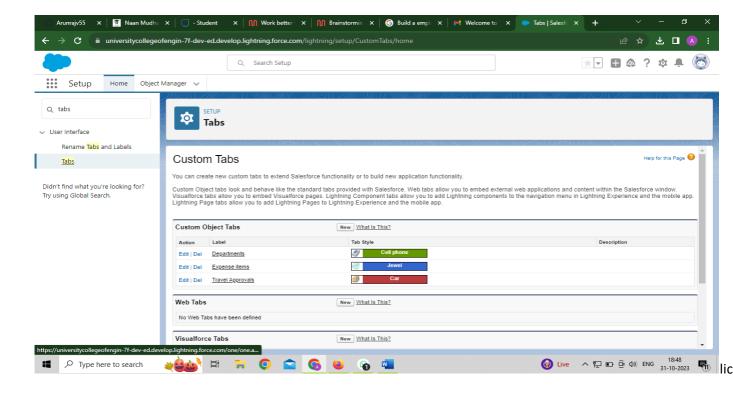
Tab- Departments

- 1. Navigate to setup and home
- 2. Enter Tabs in Quick Find Box and select Tabs
- 3. Under Custom Object Tabs, click New
- 4. For Object, select **Department**
- 5. For Tab Style, select any icon
- **6.** Leave all defaults as is. Click Next, Next, and Save **Tab department**
- 1. Navigate to setup and enter Tabs in Quick Find and select Tabs. Under Custom Object Tabs, click New.

- 2. For Object, select **Department**.
- 3. For Tab Style, select any icon.
- 4. Leave all defaults as is. Click Next, Next, and Save

Tab - Travel Approval

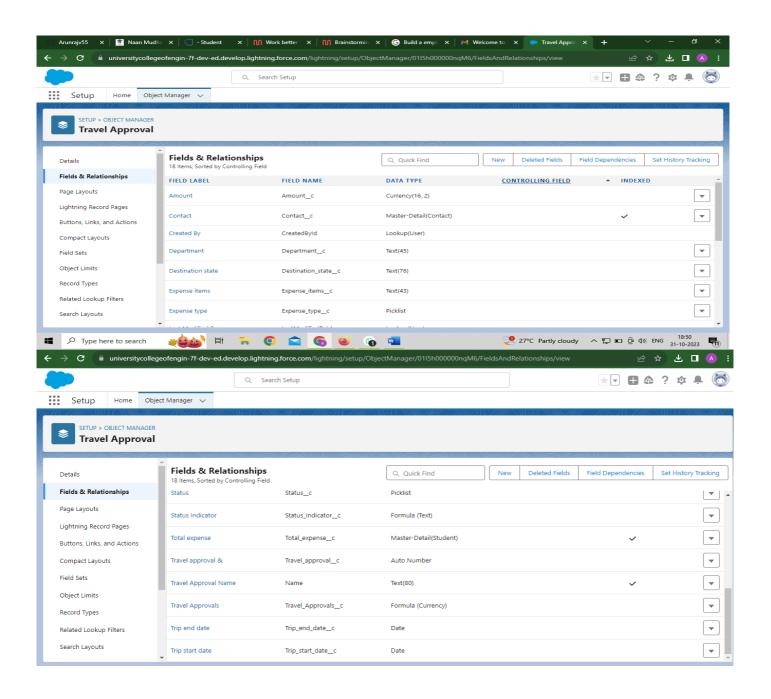
- 1. Navigate to setup and enter Tabs in Quick Find and select Tabs Under Custom Object Tabs, click New
- 2. For Object, select Travel Approval
- 3. For Tab Style, select any icon
- 4. Leave all defaults as is. C Next, Next, and Save



Milestone -04: Relationships Between Two Objects

Relationship Creation

- 1. Fields Creation: Travel Approval
- 2. Navigate to setup
- 3. Click on Object Manager and search and select Visa Slot object
- 4. Select Fields & Relations and click New.
- 5. Select Data Type: Text(45), next.
- 6. Related to: Travel Approval, next.
- 7. Label: Department
- 8. Child Relationship Name: Department, next.
- 9. Next, next and save.



Milestone - 05: Field creation

1. Total Expense: Master Detail

Trip start date : Date

3. Department: Text

4. Expense item: Text

5. Travel Approval: Formula

Field creation: Department

1. Navigate to Setup

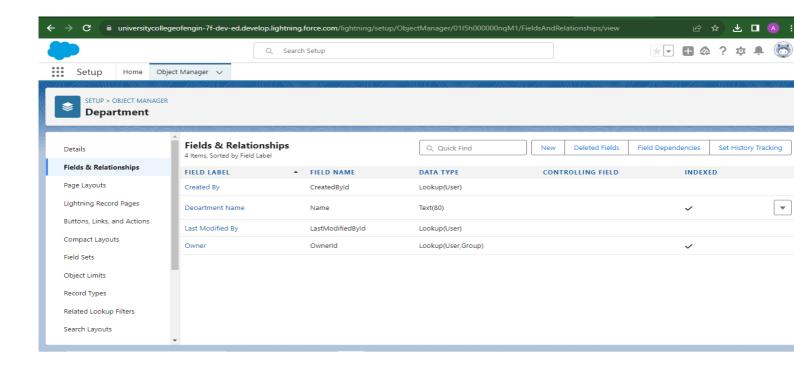
- 2. Click the Object Manager next to Home Tab
- 3. Type Passport in Quick Find and Select it
- 4. Click on Fields and Relationships
- 5. Click New
- 6. Select Data Type: Text, click on next
- 7. Field Label: Department
- 8. Length: Max(45)
- 9. Check always requires a value to save this record
- 10. Click next
- 11. Next, Save or Save & New (if further new field will be create)

Field Creation- Expense item

- 1. Navigate to Setup
- 2. Click the Object Manager next to Home Tab
- 3. Type Passport in Quick Find and Select it
- 4. Click on Fields and Relationships
- 5. Click New
- 6. Select Data Type: Text, click on next
- 7. Field Label: Expense item
- 8. Length: 43, click on next
- 9. Next, Save.

Field Creation-Trip start date

- 1. Navigate to Setup
- 2. Click the Object Manager next to Home Tab
- 3. Type Passport in Quick Find and Select it
- 4. Click on Fields and Relationships
- 5. Click New
- 6. Select Data Type: Date, click on next
- 7. Field Label: Trip start date
- 8. Next, next and save



Fields Available On Custom Object: Travel Approval

Slot Field Name Data Type

Location : Text

Time : Date & Time

Travel Approval : Auto Number (Use in RecorName)

Travel Approval : Formula(currency)

Status : picklist **Field**

Creation Status

1. Click on Object Manager, search and select Visa Slot

2. Click Fields & Relatioships and click on new.

3. Chose on picklist, next.

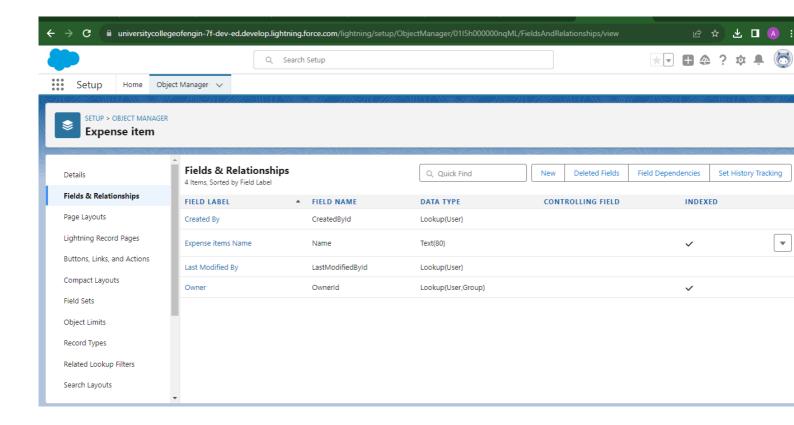
4. Label: Status

5. NOTE- select enter value, with each value separated by new line

6. Values: Approved

7. Cancel Reschedule

8. Next, next and save.



Milestone - 06: Apps

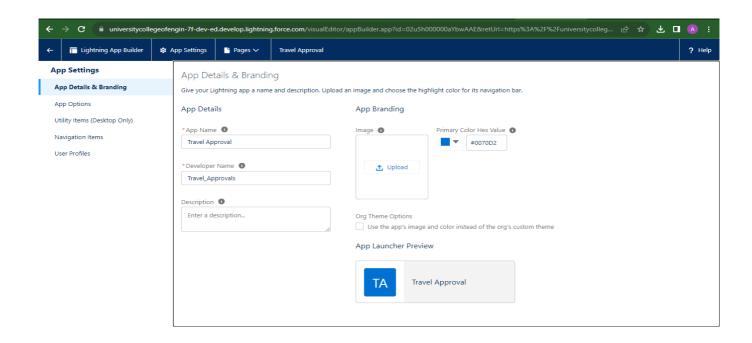
Apps in Salesforce are a group of tabs that help the application function by working together as a unit. It has a name, a logo, and a particular set of tabs. The simplest app usually has just two tabs.

There are two types of Salesforce Applications:

- a. Standard Apps
- b. Custom Apps

Creation of App

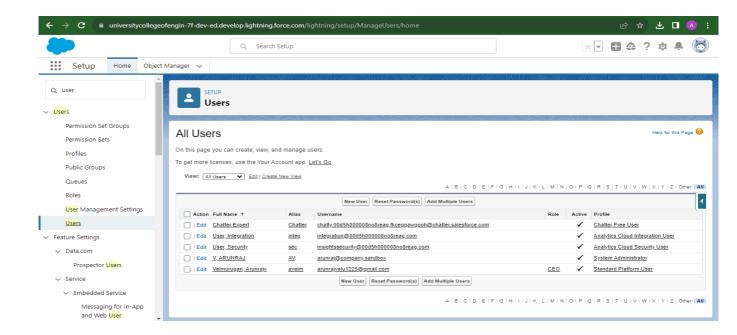
- 1. Click on setup and go to home page.
- 2. In Quick Find Box search and select App Manager.
- 3. Click: New Lightning App.
- 4. App Name: Travel Approval and click on next.
- 5. Navigate System: Standard Navigation Support Form Factor: Desktop and Phone Click next, next
- 6. Move Objects from available items to selected items. (Department, Expense item, Travel, Trip start date).
- 7. Add System Administrator profile, available profile to selected profile.
- 8. Save & Finish



Milestone- 07: User

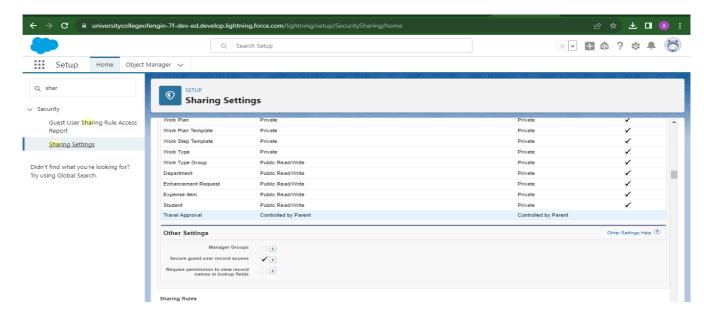
Creation Of User

- 1. Navigate to setup
- 2. In Quick Find box select and search: User
- 3. Click: New user
- 4. Give First and Last Name
- 5. Enter your email in the email field
- 6. Enter user name, it must be unique
- 7. User license: salesforce platform
- 8. In the profile field: Standard user profile
- 9. Check, Generate new password and notify user immediately
- 10. Save



Organization Wide Defaults Settings

- 1. Steps of OWD settings:
- 2. Navigate setup in Quick Find search bar
- 3. Type Sharing Setting and Select it.
- 4. Edit: Organization Wide Defaults.
- 5. Scroll down list and select Passport object and change the default external Access to Public Read/Write.
- 6. Save.



Milestone - 08: User Adoption

Create Record- Department

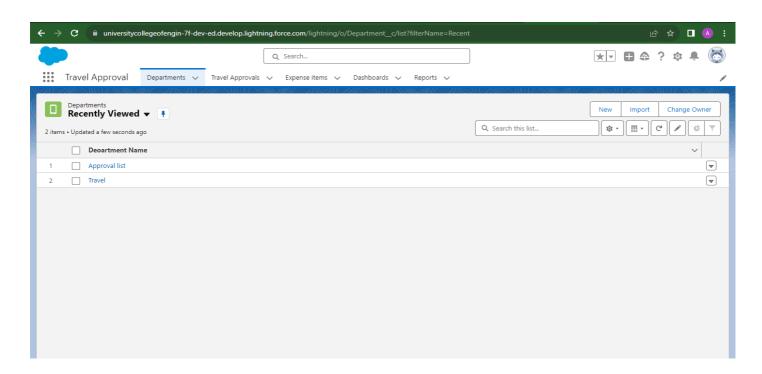
- 1. Click on App Launcher on left side of screen.
- 2. Search Travel Approval & click on it.
- 3. Click on Passport tab.
- 4. Click new button
- 5. Fill all Passport record details.
- 6. Click on Save Button.

View Record- Department

- 1. Click on App Launcher on left side of screen.
- 2. Search Travel Approval & click on it.
- 3. Click on Department Tab.
- 4. Click on any record name. you can see the details of the Driver

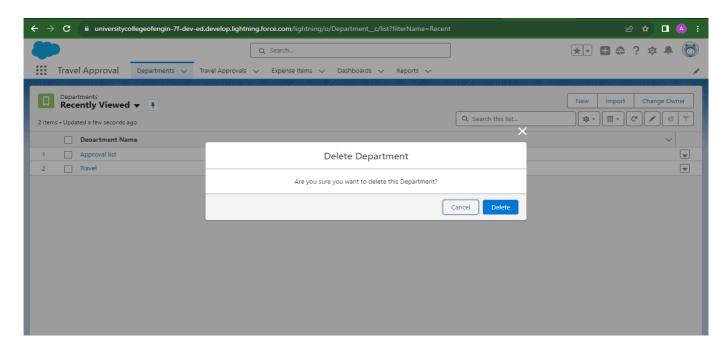
View Record- Department

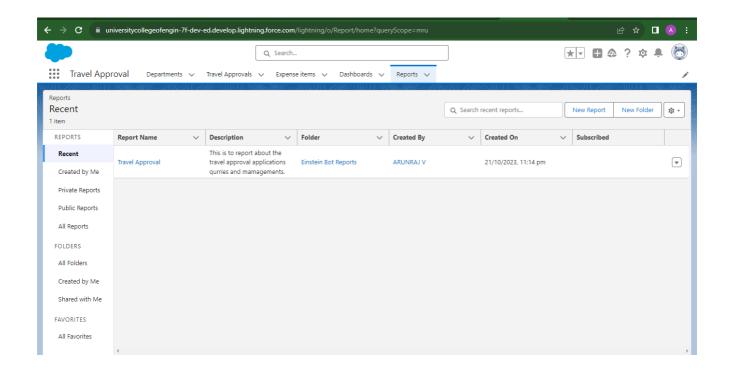
- 1. Click on App Launcher on left side of screen.
- 2. Search Travel Approval & click on it.
- 3. Click on Department Tab.
- 4. Click on any record name. you can se e the details of the Driver



Delete Records- Passport

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





Milestone - 10: Dashboards

Creation Of Dashboard

- 1. Click on the App launcher left on screen and search for dashboards.
- 2. Select New Dashboard
- 3. Name the Dashboard: Dashboard
- 4. Select Create option
- 5. Click on Add Component
- 6. Select Dashboard Locations
- 7. Click Select
- 8. Select the Donut Chart to display a section
- 9. Value: Record count
- 10. Sliced By: Location
- 11. Leave the default values
- 12. Click on Add
- 13. Save the Dashboard and Done

View Dashboard

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

Milestone - 11: Apex Triggers

Write A Trigger-1

- 1. Click on Set up Gear at drop down list you can find developer console click on that.
- 2. At the left side top you can find the option new click on that and then apex trigger.
- 3. Give the name as TravelApproval
- 4. And S object has Travel Approvel object
- 5. Scenario You cannot delete active Records

```
trigger TravelRequestTrigger on Travel_Request__c (after insert) {
  // List to store the travel request records that meet certain criteria
  List<Travel_Request__c> eligibleRequests = new List<Travel_Request__c>();
  for (Travel_Request__c request : Trigger.new) {
    // Example criteria: Only process requests with a certain type
    if (request.Request_Type__c == 'Business Trip') {
      eligibleRequests.add(request);
    }
  }
  // Perform actions on eligible travel requests
  if (!eligibleRequests.isEmpty()) {
    // Your custom logic here, e.g., sending email notifications or updating related records
    for (Travel_Request__c eligibleRequest : eligibleRequests) {
      // Perform actions, for instance, send an email notification to the approver
      // Note: Make sure to implement appropriate handling and error checks.
    }
  }
   }
```