## NAAN MUDHALVAN

#### PROJECT REPORT

on

[SALESFORCE]

# STREAMLINED EMPLOYEE DETAIL MANAGEMENT

TEAM LEADER – VIDHU BALA M

NM ID - ABEE835167D3E4CBF004EDF4C47D5921

TEAM MEMBER1 – AFRIN BANU S

NM ID – F3DAB179189B752B3484325969C8BCE2

TEAM MEMBER2 – PADMA S E

NM ID – 7CE7DEA45A13E7EB524452CFDDCDCF0F

TEAM MEMBER3 – SWETHA P

NM ID - 324D13DE0893F9E9633432251D7032FC

**Developer (Short Term)** 

#### **Introduction:**

The Streamlined Employee Detail Management project aims to develop and implement a comprehensive system for efficient management of employee information within an organization.

#### **Project Goals:**

- Streamline the process of capturing, updating, and accessing employee details, reducing administrative overhead and time spent on data management tasks.
- Improve the accuracy and integrity of employee information by implementing validation checks and automating data entry processes.
- Provide authorized personnel with easy and secure access to employee information, reducing the time required to retrieve critical data.

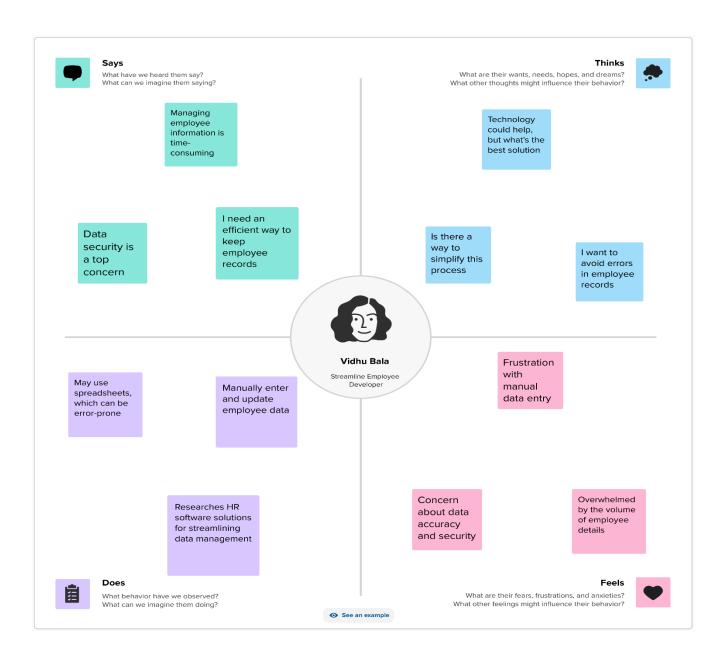
#### Scope:

- Enhance accessibility to employee information for authorized personnel.
- o Provide comprehensive document management capabilities.
- Integrate with existing HR systems and software.
- Achieve cost efficiency in HR operations.

# **Problem Definition & Design Thinking:**

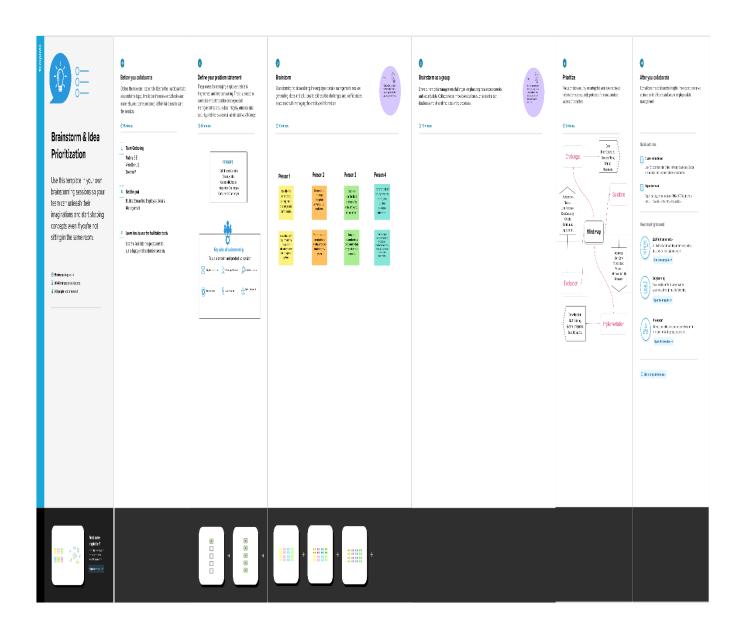
#### **Empathy Map:**

Understanding the needs and pain points of users, including educators, HR professionals, and administrators, to create a user-focused system.



## **Ideation & Brainstorming:**

Generating creative solutions to address the identified challenges, using brainstorming and collaboration.



### Milestone- 01 [Creation of developer account]

- 1.Go to developers.salesforce.com/signup
- 2.Click on sign up.
- 3.On the sign up form, enter the following details:

a) First name: Vidhu

b) Last name: Bala

c) Email: vidhubalam122002@gmail.com

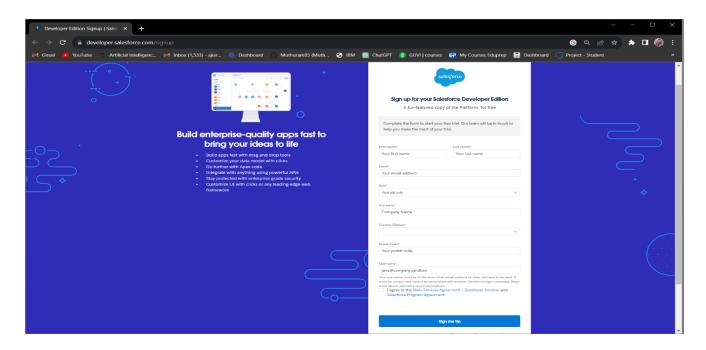
d) Role: Developer

e) Company: Ponjesly College of Engineering

f) County: India

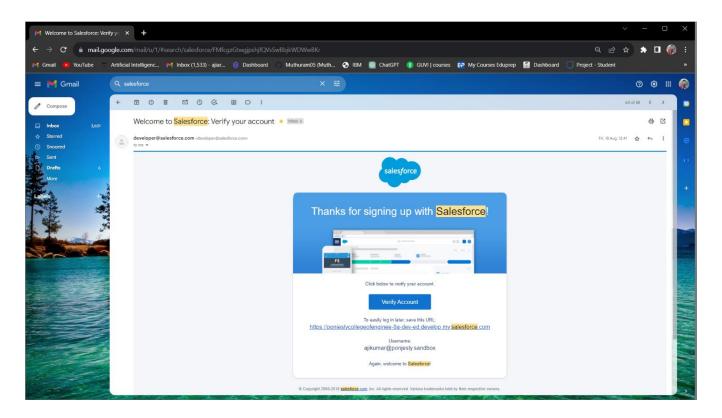
g) Postal Code: 629161

h) Username: vidhubalam@ponjesly.com



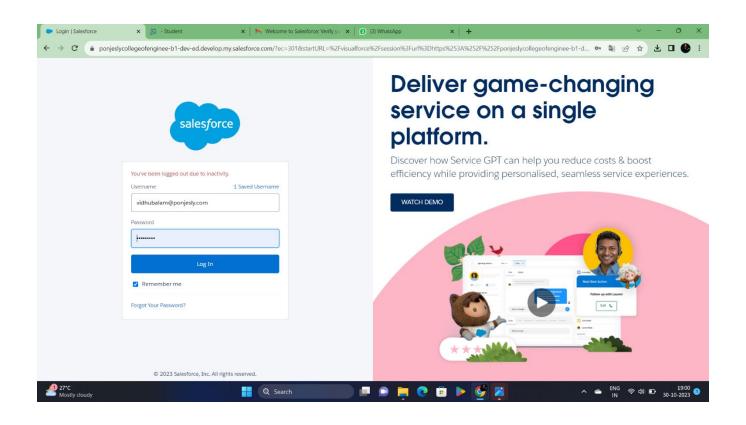
#### **Account Activation**

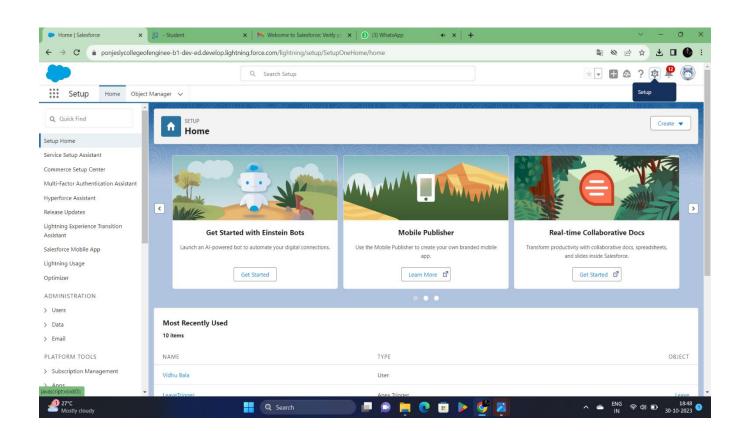
Go to the inbox of the email that you used while signing up. Click on the verify account to activate your account.



## **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.





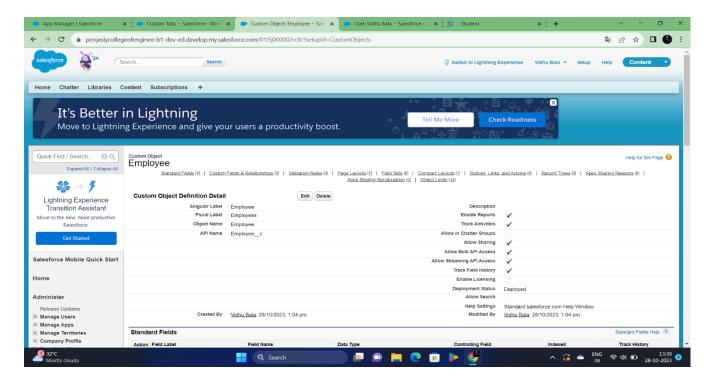
#### Milestone- 02 [Object Creation]

#### **Creating Employee Object:**

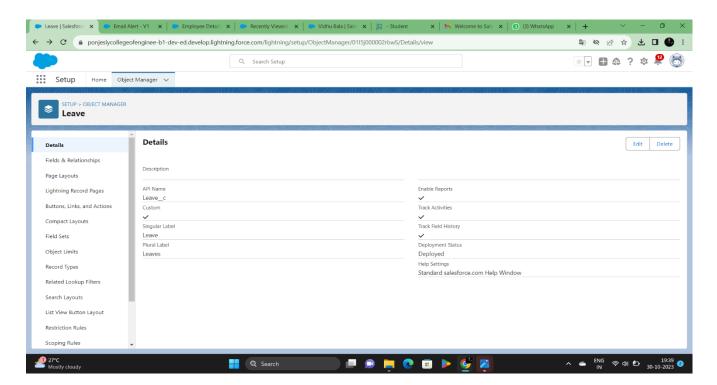
- 1. From the setup page >>> Click on Object Manager >>> Click on Create >>>Click on Custom Object.
- 2. Enter the label name>>> Employee
- 3. Plural label name>>> Employees
- 4. Enter Record Name Label and Format
  - Record Name >>> Employee Name
  - Data Type >>>Text
- 5. Click on Allow reports and Track Field History and Allow Activities.
- 6. Allow search >>> **Save.**

Create objects as Organization, Health Insurance, and Leave.

## **Object Name - Employee**

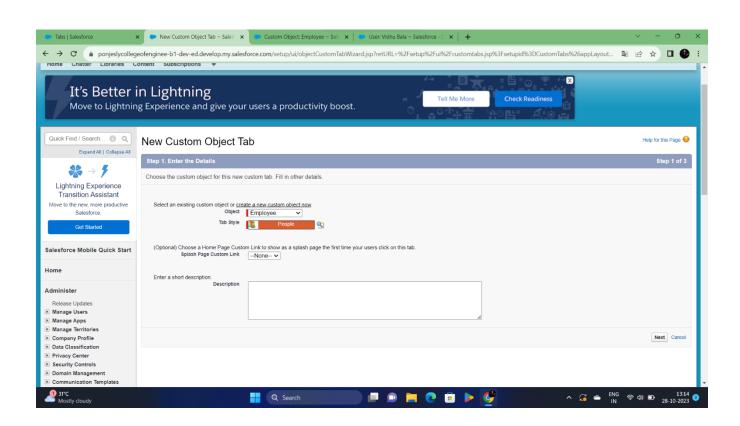


## **Object Name - Leave**



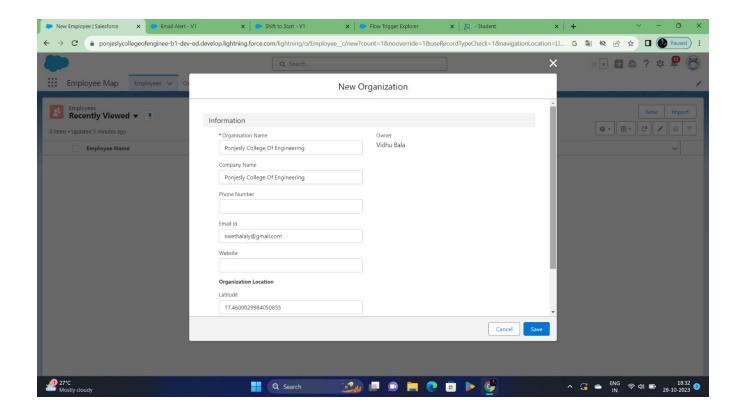
#### **Milestone- 03 [Tabs Creation]**

- 1. Go to setup page >>> type Tabs in Quick Find bar >>> click on tabs >>> New (under custom object tab)
- 2. Select Object(Employee) >>> Select the tab style>>>Next (Add to profiles page) keep it as default >>> Next (Add to Custom App) uncheck the include tab.
- 3. Make sure that the Append tab to users' existing personal customizations is checked.
- 4. Click save.



#### Milestone- 04 [Create App]

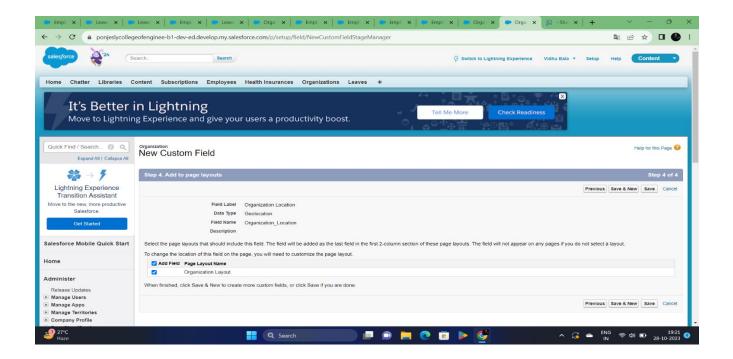
- 1. From Setup, enter App Manager in the Quick Find and select App Manager.
- 2. Click New Lightning App.
- 3. Enter **Employee Mapp** as the App Name, then click next
- 4. Under App Options, leave the default selections and click next.
- 5. Under Utility Items, leave as is and click Next.
- 6. From Available Items, select **Employee**, **Organization**, **Health Insurances**, **Leave** and move them to Selected Items.
- 7. Click Next.
- 8. From Available Profiles, select System Administrator and move it to Selected Profiles. Click Save & Finish.



#### Milestone- 05[Fields & Relationships]

#### Creation of Text Field for the "Organization" Object

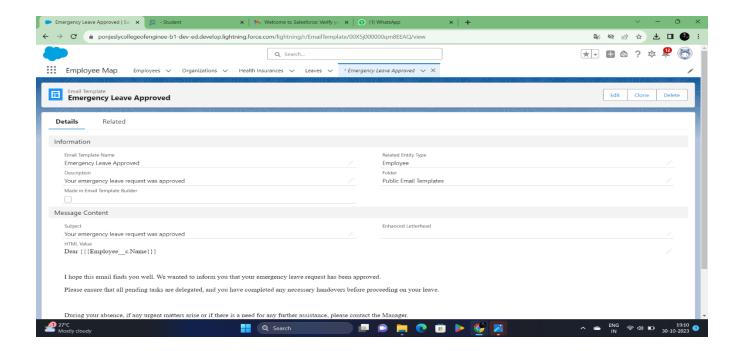
- 1. Go to setup>>>click on Object Manager>>>type object name( Organization ) in quick find bar>>>click on the object.
- 2. Now click on "Fields & Relationships">>> New
- 3. Select Data type as "Text".
- 4. Click on Next
- 5. Fill the above as following:
  - Field Label: Company Name
  - Length: 80
  - Field Name: gets auto generated
  - Click on Next>>>Next>>>Save and new.



#### **Milestone- 05[Email Templates]**

#### **Creation of Email Templates:**

- **1.** Go to App launcher >>> click on Email Template.
- 2. Click on "Email Templates" >>> New Email Template.
- 3. Email Template Name is "Emergency Leave Approved"
- 4. Related Entity Type >>> Employee
- 5. Description "Your emergency leave was approved".
- 6. Folder "Public Email Templates".
- 7. Subject "Your Emergency leave was approved"
- 8. In the HTML text enter the given information and click save.



#### Milestone- 06[User]

## **Creating A User:**

1.First Name: Vidhu

2.Last Name: Bala

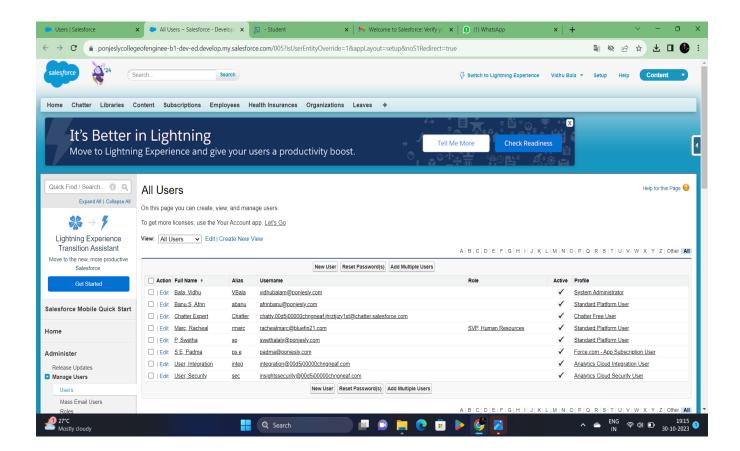
3.Email id: vidhubalam122002@gmail.com

4. Username: vidhubalam@ponjesly.com

5. Nick Name: Sreekutty

6.Profiles: Standard Platform User

7.Save.

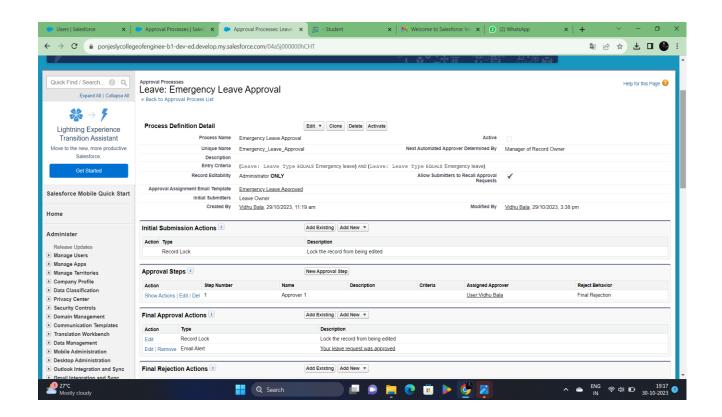


## **Milestone- 07[Approval Process]**

## **Create Approval Process:**

- 1. Go to setup >>> Approval Processes in quick find bar>>> click on it.
- 2. Manage Approval Process For >>> "Leave" from the drop down.
- 3. Click on "Create New Approval Process" >>> Use standard setup wizard.
- 4. Process Name "Emergency Leave Approval" >>> Click Next.
- 5. Field "Leave:Leave Type" >>> Operator : equals, Value >>> Click on the lookup filter icon and select "Emergency Leave".
- 6. Click insert field, then click Next.
- 7. Field "Leave:Leave Type" >>> Operator : equals, Value >>> Click on the lookup filter icon and select "Emergency Leave".
- 8. Next Automated Approver determined by "Manager" from the drop down.Use approver field of leave owner should be marked as check
- 9. Select the "Administrators ONLY can edit records during the approval process". Then Next.
- 10.Under the Approval Assignment Email Template click in the lookup icon>>>Lightning >>> Public Email Templates "Emergency Leave Approved".Then Next.Once you have saved your approval process, while on the same page click the approval process.
- 13. At the approval steps, Click on "New Approval Step".
- 14. Enter the name as "Approver1" the unique name will automatically be updated. Then Next.

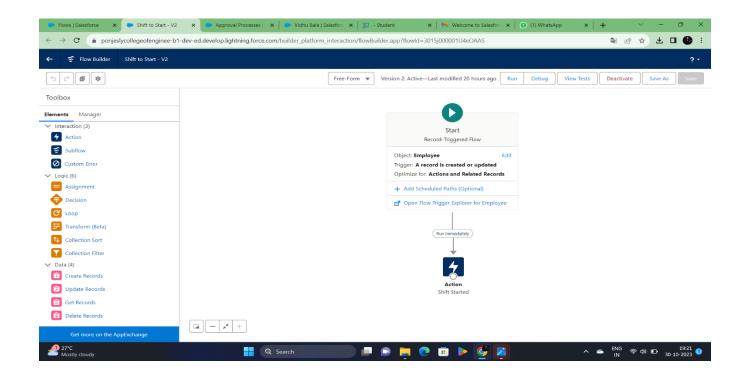
- 15. All records should enter this step. Then Next.
- 16. Automatically assign to approvers is to be selected. User: from the lookup give the user.
- 17. "Approve or reject based on the FIRST response" is to be selected. Then click save.
- 18. While on the same Approval Process page .Under the "Final Approval Action" click Add New from the drop down select "Email Alert".
- 20.Description: Your emergency leave request was approved.Unique name is auto populated.
- 21.Email Template, click the lookup option and select Emergency Leave Approved.
- 22. Recipient Type: User, Selected Recipient: Leave Owner. Then click save.

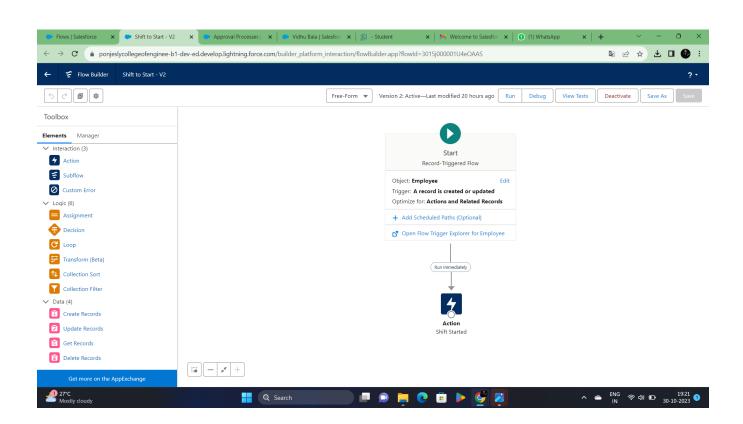


## **Milestone- 07[Flows]**

#### **Create Flows for Email Alert:**

- 1. Go to setup >>> type Flow in quick find box >>> Click on the Flow and Select the New Flow.
- 2. Select the record Triggered flow.Click on create.
- 3. Under Object select "Leave". Click on A record is created or updated. Actions and Related Records, Done.
- 4. Select Free Form Layout for the flow and then Click on the Manager option, You will find "New Resource"
- 5. "Text Template"
- 6. Label it as "Leave Mail". And mention the given details Dear {!\$Record.Employee\_\_r.Name}
- 7. Drag the "Action" element from the toolbox onto the screen.
- 8. Under Category dropdown select Email, Then in the action bar select "Send Email" action.
- 9. Give API name as "Email Alert".



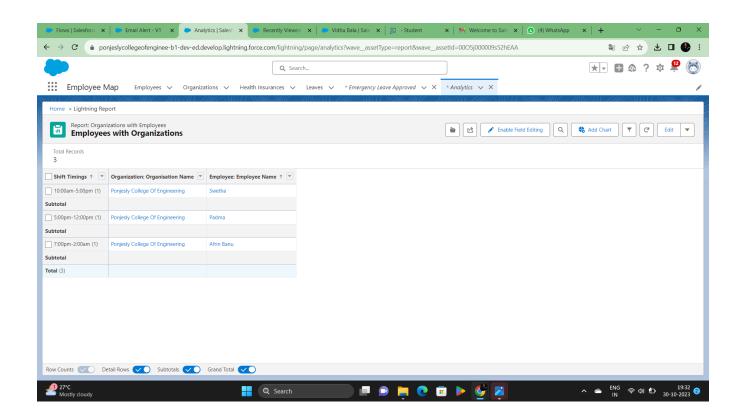


## **Milestone- 07[User Adoption]**

## **Create Records for the Organization object:**

- 1. Click on the organization Tab .Click on New.
- 2. Give the Organization name, email, phone all the fields are to be filled including organization location.
- 3. Make sure you fill the location in terms of latitude and longitude as shown below.

Then click save and new.(Similarly create more records in the organization object)



## **Milestone- 08[Reports]**

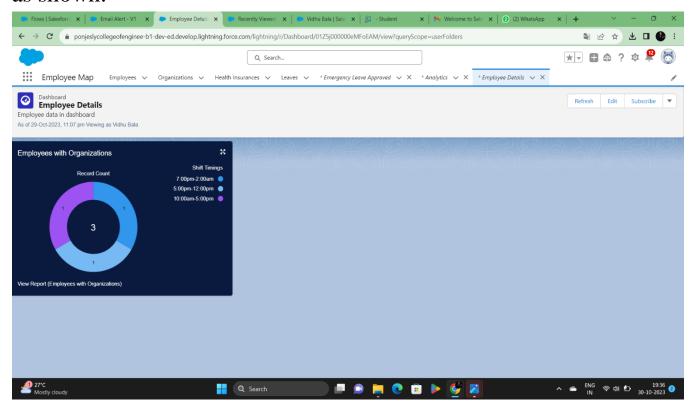
Go to the app >>> click on the reports tab

- 2. Click New Report.
- 3. Select report type from category or from report type panel or from search panel >>> click on start report.
- 4. Select report >>> Employees with Organizations with Travel Allowances, Then click on start report.
- 5. Once you click on start report you will see that the records you have created would be displayed.
- 6.Group the columns according to your preference from the dropdown as shown.
- 7. Save your report as Travel Allowance Report. And run it.
- 8. Similarly create a report for Organizations with Employees and Health Insurances and save it as "Employee and health insurances".
- 9. Similarly create a report for Leave with employee and save it as "Employee leave details".

## **Milestone- 09[Dashboards]**

- 1. Go to the app >>> click on the reports tab
- 2. Click New Report.

- 3. Select report type from category or from report type panel or from search panel >>> click on start report.
- 4. Select report >>> Employees with Organizations with Travel Allowances, Then click on start report.
- 5. Once you click on start report you will see that the records you have created would be displayed.
- 6.Group the columns according to your preference from the dropdown as shown.



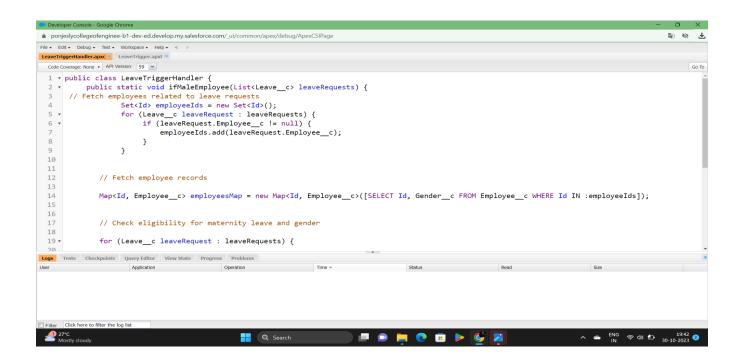
Milestone- 10[Apex Classes and Triggers]

#### **Creating Apex Classes**

- 1. Then you can see many tools in the Toolbar of the new console window. Click on File, New and Apex Class.
- 2. Enter the name "LeaveTriggerHandler" click ok.
- 3. Enter the given code in the console.

```
public class LeaveTriggerHandler {
  public
             static
                       void
                                ifMaleEmployee(List<Leave__c>
leaveRequests) {
    // Fetch employees related to leave requests
    Set<Id> employeeIds = new Set<Id>();
    for (Leave__c leaveRequest : leaveRequests) {
      if (leaveRequest.Employee__c != null) {
         employeeIds.add(leaveRequest.Employee__c);
    // Fetch employee records
    Map<Id, Employee__c> employeesMap = new
Employee__c>([SELECT Id,
                              Gender_c FROM Employee_c
WHERE Id IN :employeeIds]);
    // Check eligibility for maternity leave and gender
    for (Leave__c leaveRequest : leaveRequests) {
      if (leaveRequest.Leave_Type__c == 'Maternity Leave') {
```

```
Employee__c emp =
employeesMap.get(leaveRequest.Employee__c);
    if (emp != null && emp.Gender__c != null &&
emp.Gender__c == 'Male') {
        leaveRequest.addError('Male employees are not eligible
for Maternity Leave');
    }
    }
}
```

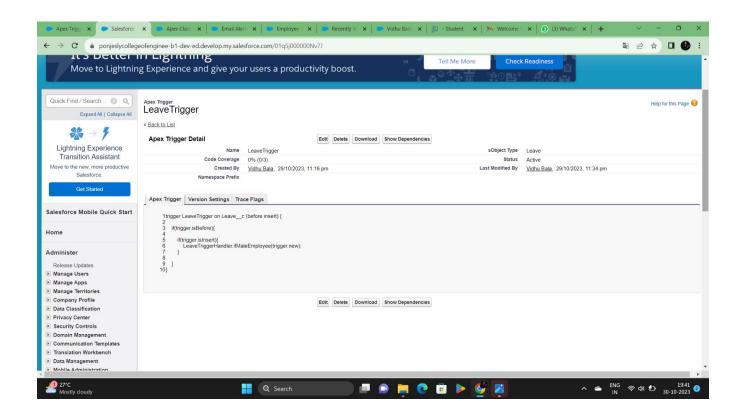


#### **Creating Apex Triggers**

- 1. Login to the trailhead account and navigate to the gear account in the top right corner.
- 2. Then we can see the Developer console. Click on the developer console and you will navigate to a new console window.
- 3. Then you can see many tools in the Toolbar of the new console window. Click on File, New and Apex Trigger.
- 4. Enter the name "LeaveTrigger" select the sObject from the list "leave\_c".

Enter the given code in the console, check for errors and save.

```
trigger LeaveTrigger on Leave__c (before insert) {
  if(trigger.isBefore){
    if(trigger.isInsert){
      LeaveTriggerHandler.ifMaleEmployee(trigger.new);
    }
}
```



#### Demo Video Link:

https://youtu.be/CQ7iJPcGGzQ?si=UuiguSL7ecCrkYz\_

Trailhead Url:

Team Leader: Vidhu Bala M

https://www.salesforce.com/trailblazer/vidhubala

Team Member1: Afrin Banu S

https://www.salesforce.com/trailblazer/afrinbanus

Team Member2: Padma S E

https://www.salesforce.com/trailblazer/padmase

Team Member3: Swetha P

https://www.salesforce.com/trailblazer/swethapy7bwjzm9i9ys