

**Dr. KALAI GNAR GOVERNMENT ATRS COLLEGE**  
**KULITHALAI -639120**

**DEPARTMENT OF MATHEMATICS**

**NAAN MUDHALVAN – SMART BRIDEG PROJECT**

**PROJECT TITLE : BUILD A EMPLOYEE TRAVEL  
APPROVAL APPLICATION**

**SUBMITTED BY**

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## INTRODUCTION

Your organization has decided to implement a custom travel approval app. Up until now, you had a travel approval process in place based on emailing spreadsheets. It had no central repository or enforcement of the process, resulting in the inability to report on travel approval activities across the organization. You need to create an application that meets these requirements:

- Each employee must submit an electronic request in the system for future travel.
- Each request includes a list of estimated expenses for airfare, hotel, rental car, and so on.
- Each request must be approved by the employee's manager, and all out-of-state travel must be approved by a travel coordinator.
- Managers need reports and dashboards to track key travel request trends and KPIs.
- In addition, employees and managers must be able to access their travel requests, approvals, and dashboards via mobile device.

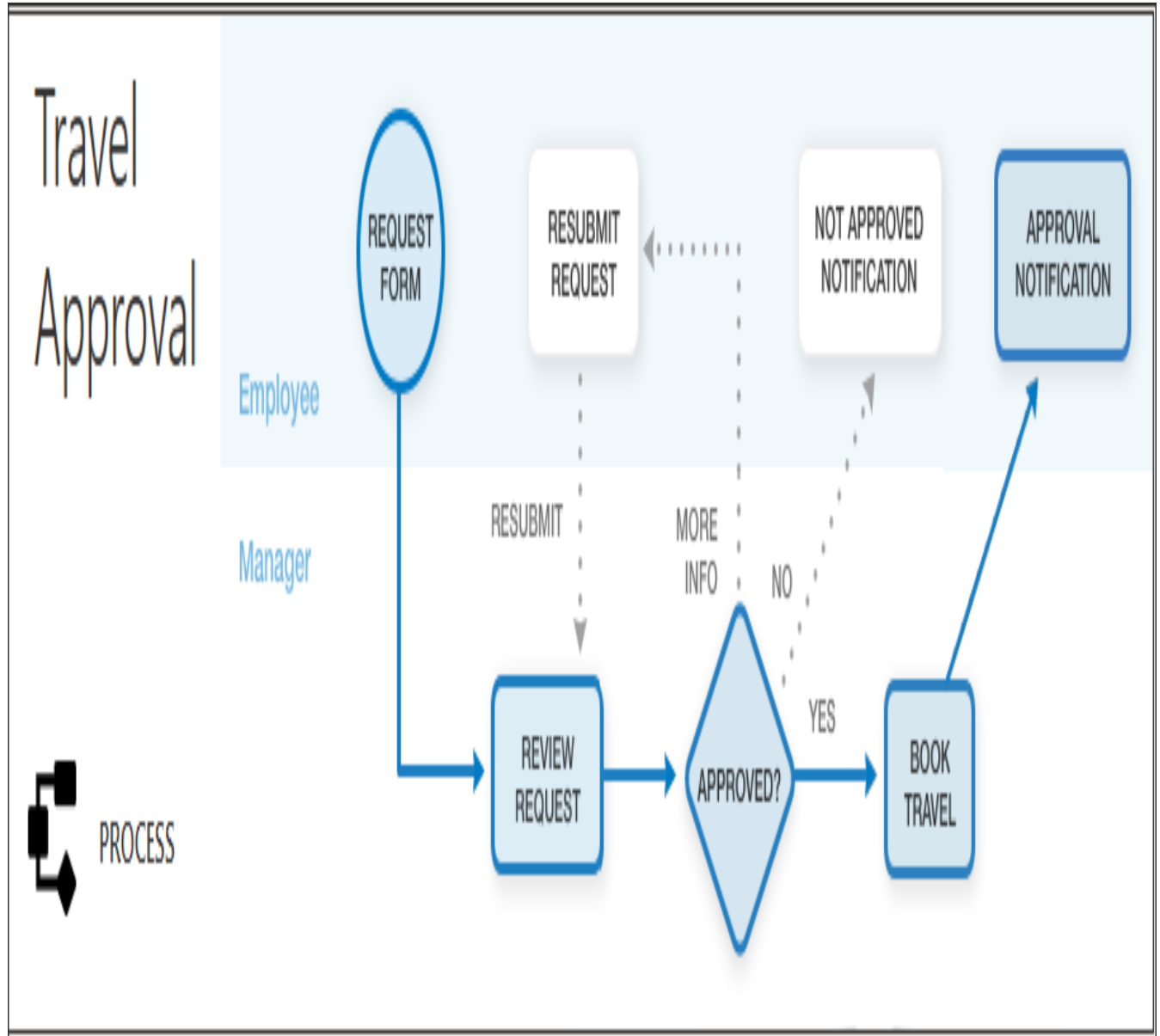
By the end of the project, you'll have a working prototype of the new travel approval application. You start by creating a travel approval app that provides a view of your specific travel-related objects, which you create in the next steps. Remember that a Salesforce app is a grouping of tabs that give you access to corresponding object data.

## OVER VIEW :

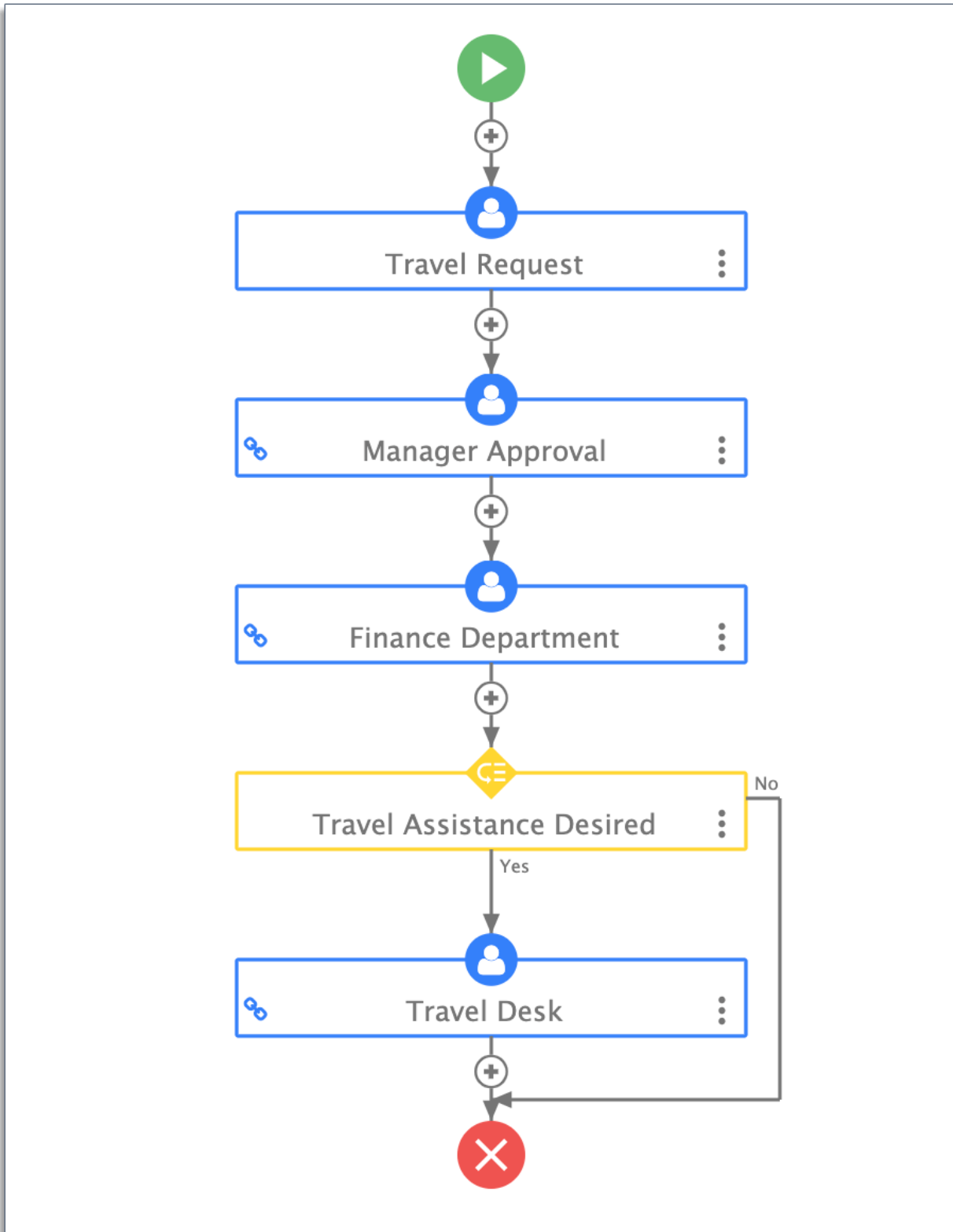
In this project,

- . Build a Lightning app, add tabs, and customize page layouts.
- . Create custom objects and fields for the app.
- . Define relationships between objects.
- . Import data and test the app.

# EMPATHY MAP

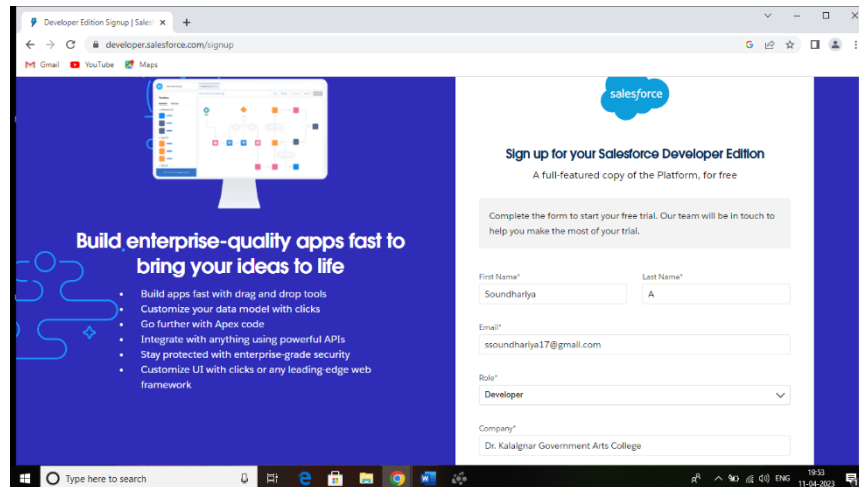


## **BRAIN STORMING MAP**



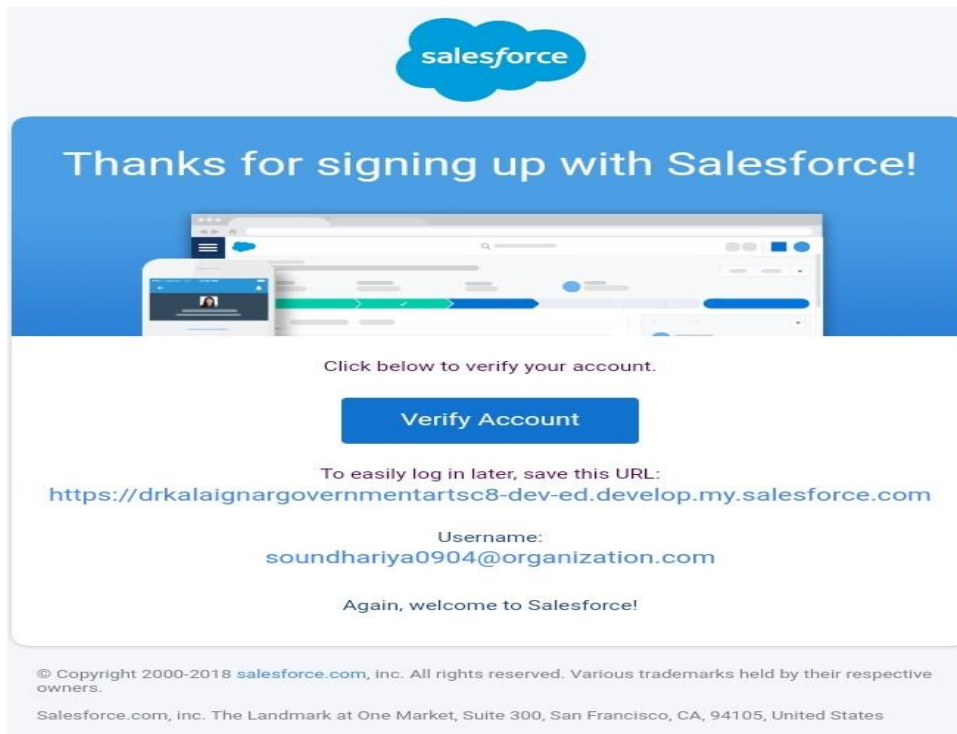
## Milestone 1- Create Salesforce Org:

Creating Developer Account Creating a developer org in salesforce.



The screenshot shows the Salesforce Developer Edition Sign-up page in a web browser. The page has a blue header with the Salesforce logo. Below the header, there's a section titled "Sign up for your Salesforce Developer Edition" with the subtitle "A full-featured copy of the Platform, for free". A message states: "Complete the form to start your free trial. Our team will be in touch to help you make the most of your trial." The form includes fields for First Name (Soundharya), Last Name (A), Email (ssoundharya17@gmail.com), Role (Developer), and Company (Dr. Kalaignar Government Arts College). To the left of the form, there's a blue box with the text "Build enterprise-quality apps fast to bring your ideas to life" and a list of bullet points: "Build apps fast with drag and drop tools", "Customize your data model with clicks", "Go further with Apex code", "Integrate with anything using powerful APIs", "Stay protected with enterprise-grade security", and "Customize UI with clicks or any leading edge web framework".

Account Activation.



The screenshot shows the Salesforce account activation page. It features a blue header with the Salesforce logo. Below the header, there's a blue box with the text "Thanks for signing up with Salesforce!". Below this, there's a white box with the text "Click below to verify your account." and a blue button labeled "Verify Account". Below the button, there's a message: "To easily log in later, save this URL:" followed by the URL "https://drkalaighnargovernmentartsc8-dev-ed.develop.my.salesforce.com". Below the URL, there's a message: "Username: soundharya0904@organization.com". Below the username, there's a message: "Again, welcome to Salesforce!". At the bottom of the page, there's a footer with copyright information: "© Copyright 2000-2018 salesforce.com, inc. All rights reserved. Various trademarks held by their respective owners." and "Salesforce.com, inc. The Landmark at One Market, Suite 300, San Francisco, CA, 94105, United States".

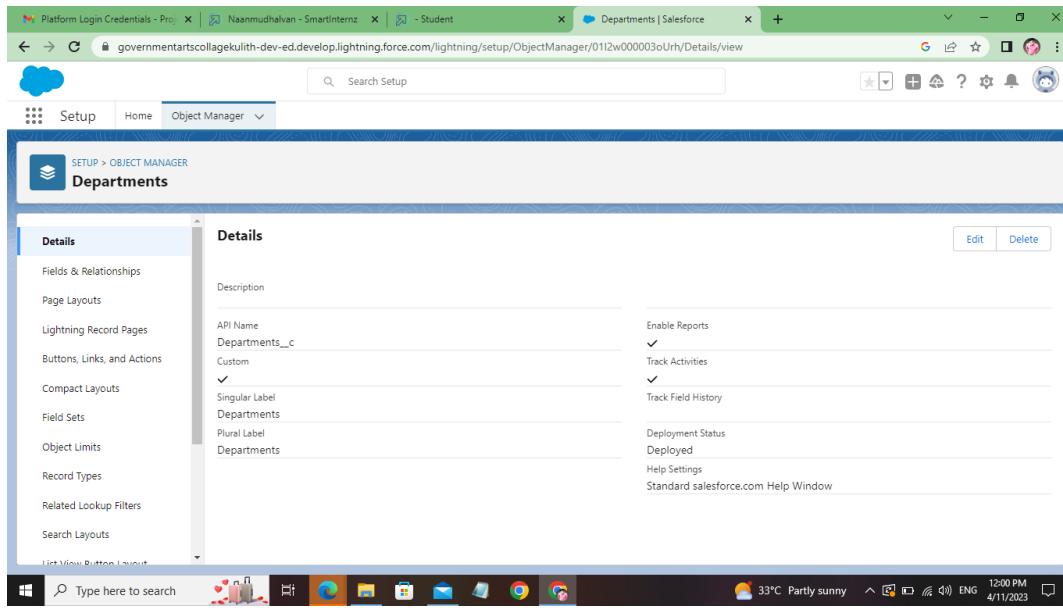
## Milestone 2 Creating the Application:

The screenshot displays a web application interface for a 'travel approval' system. The browser's address bar shows the URL: `governmentartscollagekulith-dev-ed.develop.lightning.force.com/lightning/o/Departments__c/list?filterName=Recent`. The application's navigation bar includes a search bar and a menu with items like 'Departments', 'Dashboards', 'TravelApprovals', 'Reports', 'expense item', 'attendees', 'speaker', 'event', and 'vendor'. The main content area is titled 'Departments Recently Viewed' and shows a list of 0 items. A message states: 'You haven't viewed any Departments recently. Try switching list views.' The Windows taskbar at the bottom shows the time as 11:46 AM on 4/11/2023.

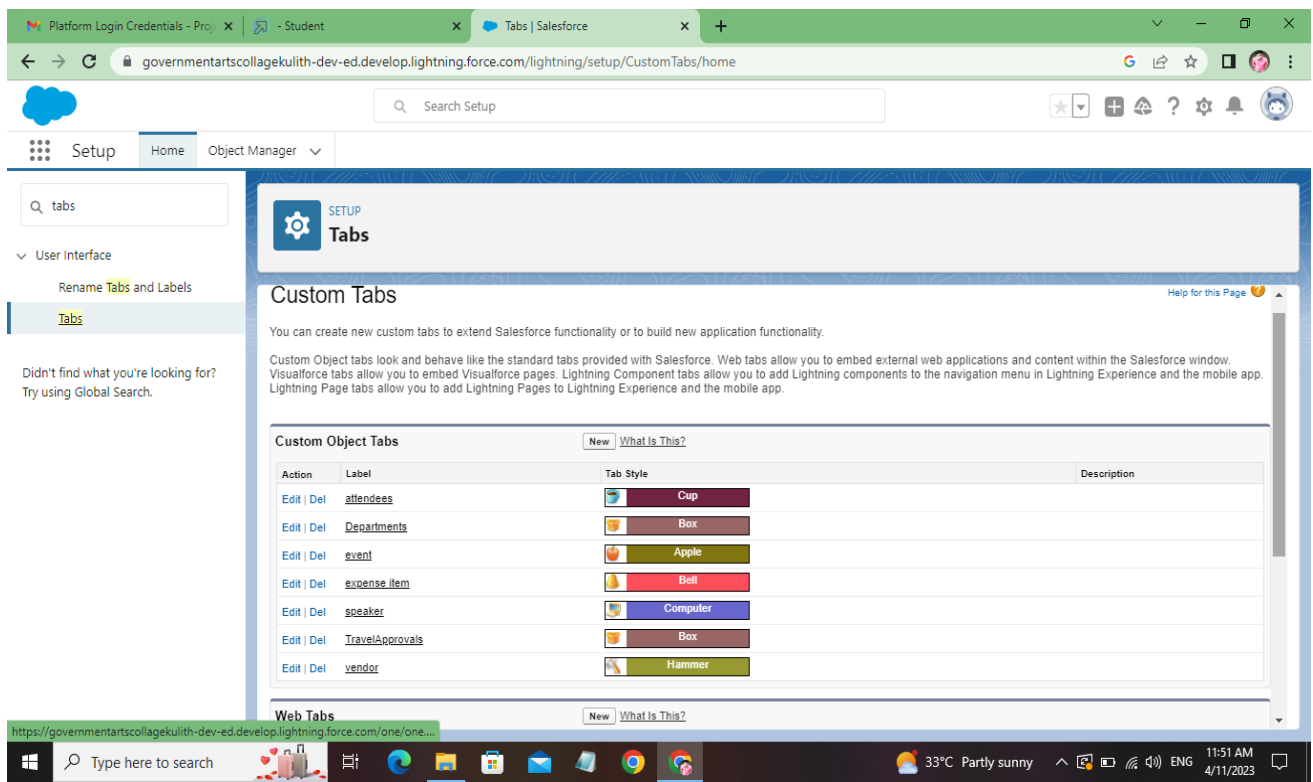
Departments	Department Name	Department Code
You haven't viewed any Departments recently. Try switching list views.		



## Milestone 3 -:



## Milestone 4-What is a Tab?



## Milestone 4 Create- Fields& Relationships :

Platform Login Credentials - Pro x Naanmudhalvan - SmartInternz x Student x Departments | Salesforce x

governmentartscollagekulith-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w000003oUrh/Details/view

Setup Home Object Manager

SETUP > OBJECT MANAGER  
**Departments**

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

Details

Description

API Name  
Departments\_\_c  
Custom  
Singular Label  
Departments  
Plural Label  
Departments

Enable Reports  
✓  
Track Activities  
✓  
Track Field History  
Deployment Status  
Deployed  
Help Settings  
Standard salesforce.com Help Window

Edit Delete

Type here to search

33°C Partly sunny

12:00 PM  
4/11/2023

Platform Login Credentials - Pro x Naanmudhalvan - SmartInternz x Student x expense item | Salesforce x

governmentartscollagekulith-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w000003oY9G/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
Created By	CreatedById	Lookup(User)		
enter amount	enter_amount__c	Picklist		
expense item Name	Name	Auto Number		✓
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓

Type here to search

33°C Partly sunny

11:59 AM  
4/11/2023

Platform Login Credentials - Pro x Naanmudhalvan - SmartInternz x Student x TravelApprovals | Salesforce x

governmentartscollagekulith-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w000003oUrx/Details/view

Setup Home Object Manager

SETUP > OBJECT MANAGER  
**TravelApprovals**

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

Details

Description

API Name  
TravelApprovals\_\_c  
Custom  
Singular Label  
TravelApprovals  
Plural Label  
TravelApprovals

Enable Reports  
✓  
Track Activities  
✓  
Track Field History  
Deployment Status  
Deployed  
Help Settings  
Standard salesforce.com Help Window

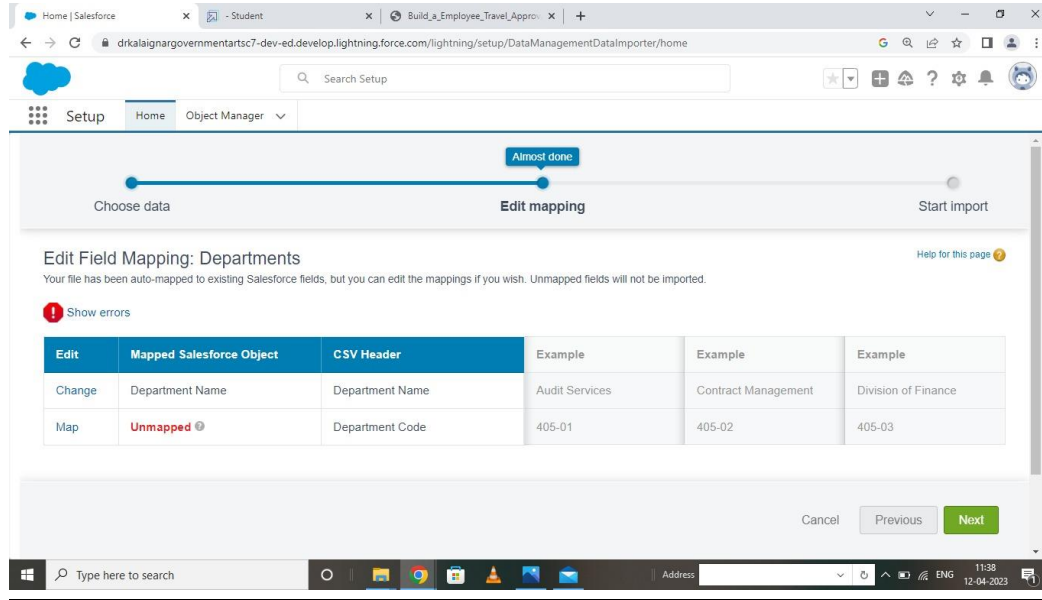
Edit Delete

Type here to search

33°C Partly sunny

12:00 PM  
4/11/2023

## Milestone 5-Import Departments



The screenshot shows the Salesforce Setup page for importing data. The breadcrumb trail is Setup > Home > Object Manager > Departments. A progress bar at the top indicates the process is 'Almost done' with three steps: 'Choose data', 'Edit mapping', and 'Start import'. The 'Edit mapping' step is active.

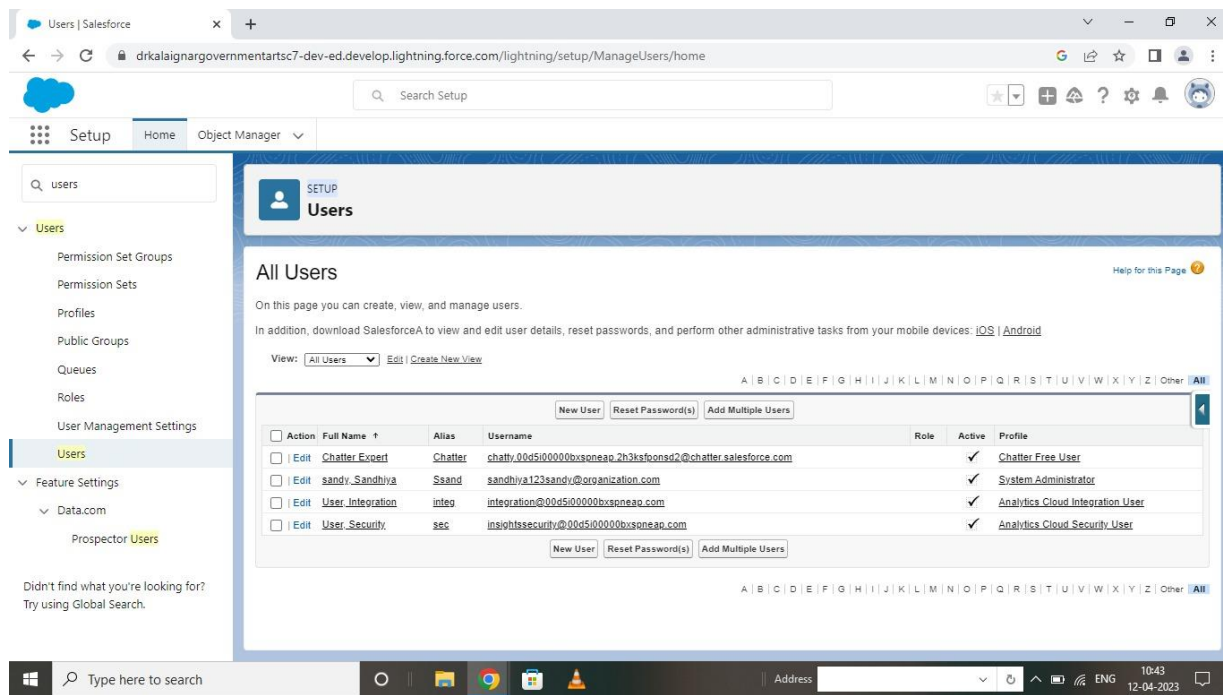
**Edit Field Mapping: Departments**  
Your file has been auto-mapped to existing Salesforce fields, but you can edit the mappings if you wish. Unmapped fields will not be imported.

**Show errors**

Edit	Mapped Salesforce Object	CSV Header	Example	Example	Example
Change	Department Name	Department Name	Audit Services	Contract Management	Division of Finance
Map	Unmapped	Department Code	405-01	405-02	405-03

Buttons: Cancel, Previous, Next

## Milestone 6-Customize User Interface



The screenshot shows the Salesforce Setup page for managing users. The breadcrumb trail is Setup > Home > Object Manager > Users. The left sidebar shows the 'Users' section selected under 'User Management Settings'.

**SETUP Users**

**All Users**  
On this page you can create, view, and manage users.  
In addition, download SalesforceA to view and edit user details, reset passwords, and perform other administrative tasks from your mobile devices: [iOS](#) | [Android](#)

View: All Users | Edit | Create New View

Action	Full Name	Alias	Username	Role	Active	Profile
[Edit]	Chatter Expert	Chatter	chatter.00d500000bxsoneqo.2h3ksfoonsd2@chatter.salesforce.com		✓	Chatter Free User
[Edit]	sandy_Sandhya	Ssand	sandhya123sandy@organization.com		✓	System Administrator
[Edit]	User Integration	info	integration@00d500000bxsoneqo.com		✓	Analytics Cloud Integration User
[Edit]	User Security	sec	insightssecurity@00d500000bxsoneqo.com		✓	Analytics Cloud Security User

Buttons: New User, Reset Password(s), Add Multiple Users

## Milestone 7- Use customization

The screenshot shows the Salesforce Setup interface for the 'Travel Approval' object. The left sidebar contains a navigation menu with options: Details, Fields & Relationships, Page Layouts (selected), Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, and Search Layouts. The main content area is titled 'Page Layouts' and shows a table with one item: 'Travel Approval Layout'. The table has columns for 'PAGE LAYOUT NAME', 'CREATED BY', and 'MODIFIED BY'. The 'Travel Approval Layout' was created by 'Sandhiya sandy' on 06/04/2023 at 2:42 pm and modified by 'Sandhiya sandy' on 11/04/2023 at 2:17 pm. The browser address bar shows the URL: 'drkalaignargovernmentartsc7-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/015i000000wUXX/PageLayouts/view'. The Windows taskbar at the bottom shows the search bar and various application icons.

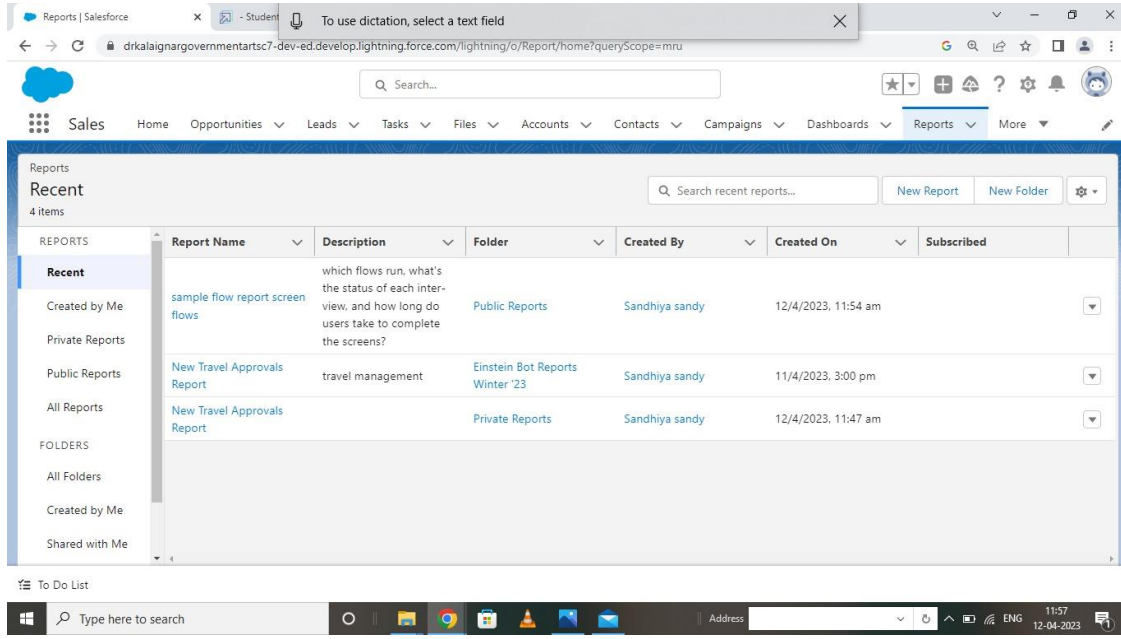
PAGE LAYOUT NAME	CREATED BY	MODIFIED BY
Travel Approval Layout	Sandhiya sandy, 06/04/2023, 2:42 pm	Sandhiya sandy, 11/04/2023, 2:17 pm

## Milestone 8-Add Business Logic to Travel App

The screenshot shows the Salesforce Setup interface for the 'TravelApprovals' object. The left sidebar contains a navigation menu with options: Details, Fields & Relationships, Page Layouts (selected), Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, and Search Layouts. The main content area is titled 'Validation Rules' and shows a table with one item: 'enter\_details\_for\_trip'. The table has columns for 'RULE NAME', 'ERROR LOCATION', 'ERROR MESSAGE', 'ACTIVE', and 'MODIFIED BY'. The 'enter\_details\_for\_trip' rule is located at 'Trip End Date' with the error message 'Trip\_End\_Date\_c < Trip\_Start\_Date\_c', is active (checked), and was modified by 'Rajababu V' on 30/03/2023 at 6:30 pm. The browser address bar shows the URL: 'governmentartscollagekulith-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w000003oUrX/ValidationRules/view'. The Windows taskbar at the bottom shows the search bar and various application icons, including a weather widget showing 35°C Partly sunny.

RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE	MODIFIED BY
enter_details_for_trip	Trip End Date	Trip_End_Date_c < Trip_Start_Date_c	✓	Rajababu V, 30/03/2023, 6:30 pm

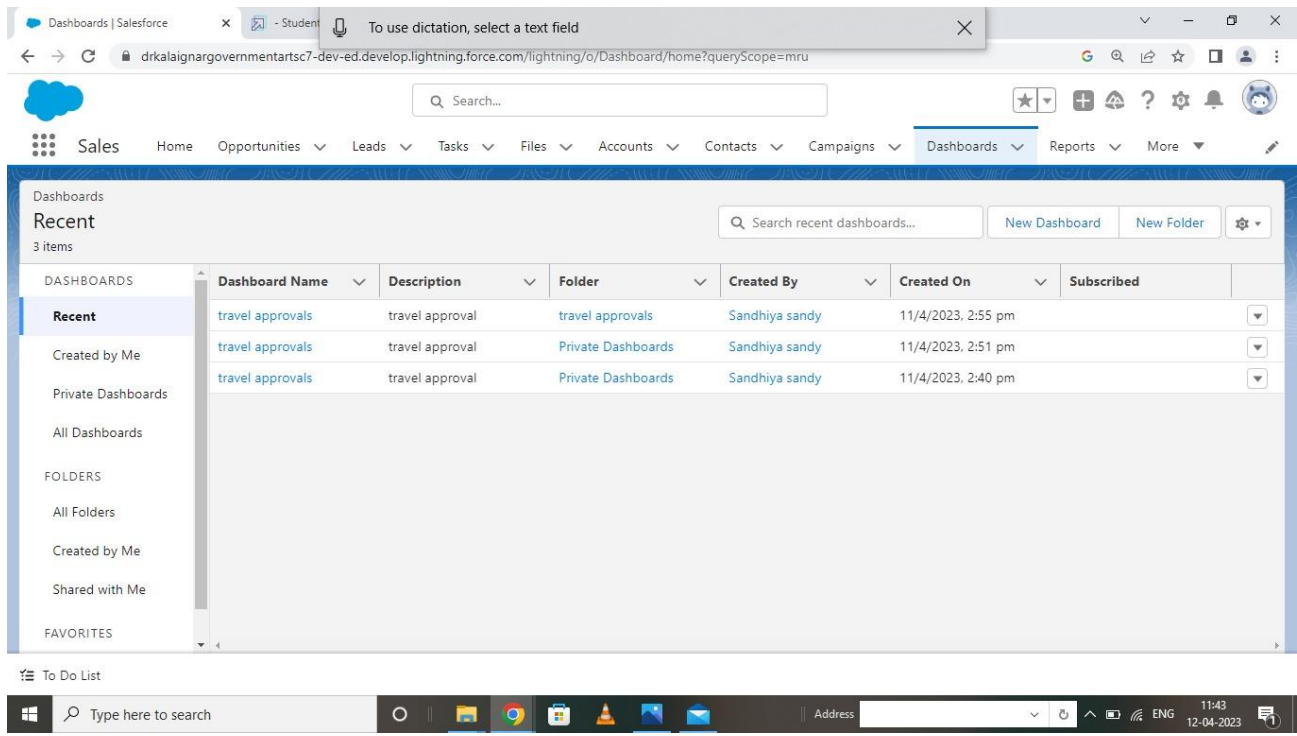
## Milestone 10-What are Reports?



The screenshot shows the Salesforce Reports interface. The top navigation bar includes 'Sales', 'Home', 'Opportunities', 'Leads', 'Tasks', 'Files', 'Accounts', 'Contacts', 'Campaigns', 'Dashboards', 'Reports', and 'More'. The 'Reports' section is active, displaying a 'Recent' list of 4 items. The left sidebar shows a tree view with 'REPORTS' (Recent, Created by Me, Private Reports, Public Reports, All Reports) and 'FOLDERS' (All Folders, Created by Me, Shared with Me). The main table lists reports with columns: Report Name, Description, Folder, Created By, Created On, and Subscribed.

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent						
Created by Me	sample flow report screen flows	which flows run, what's the status of each interview, and how long do users take to complete the screens?	Public Reports	Sandhiya sandy	12/4/2023, 11:54 am	
Private Reports						
Public Reports	New Travel Approvals Report	travel management	Einstein Bot Reports Winter '23	Sandhiya sandy	11/4/2023, 3:00 pm	
All Reports	New Travel Approvals Report		Private Reports	Sandhiya sandy	12/4/2023, 11:47 am	

## Milestone 11- Dashboards:



The screenshot shows the Salesforce Dashboards interface. The top navigation bar includes 'Sales', 'Home', 'Opportunities', 'Leads', 'Tasks', 'Files', 'Accounts', 'Contacts', 'Campaigns', 'Dashboards', 'Reports', and 'More'. The 'Dashboards' section is active, displaying a 'Recent' list of 3 items. The left sidebar shows a tree view with 'DASHBOARDS' (Recent, Created by Me, Private Dashboards, All Dashboards) and 'FOLDERS' (All Folders, Created by Me, Shared with Me). The main table lists dashboards with columns: Dashboard Name, Description, Folder, Created By, Created On, and Subscribed.

DASHBOARDS	Dashboard Name	Description	Folder	Created By	Created On	Subscribed
Recent	travel approvals	travel approval	travel approvals	Sandhiya sandy	11/4/2023, 2:55 pm	
Created by Me	travel approvals	travel approval	Private Dashboards	Sandhiya sandy	11/4/2023, 2:51 pm	
Private Dashboards	travel approvals	travel approval	Private Dashboards	Sandhiya sandy	11/4/2023, 2:40 pm	

# Trailhead Profile Public URL

Team Lead- <https://trailblazer.me/id/rajem14>

Team Member 1 - <https://trailblazer.me/id/ssandy121>

Team Member 2 - <https://trailblazer.me/id/shard252>

Team Member 3 - <https://trailblazer.me/id/souna17>

## ADVANTAGES & DISADVANTAGE

### Advantages Of Traveling

Let's take a look at the main advantages of traveling the world.

### Adventures And New Experiences

Without a doubt, the biggest plus to traveling is all of the new experiences you will get across the world. These are usually experiences you wouldn't have otherwise like staying with local hill tribes in [Thailand](#) or snorkeling with sharks in [Australia](#).

A lot of time while traveling is spent prioritizing having fun and experiencing new adventures, which is so different from our usual daily lives. You can create memories that last a lifetime while traveling, and this is definitely a huge plus when it comes to looking at the advantages of traveling.

### Experience New Cultures

You can expand your mind and open yourself up to new cultures and ideologies while traveling. During travel, you are coming into contact with cultures and people that you might not have come into otherwise.

Immersing yourself in the culture of another country can be an opportunity for a lot of learning, and you will see the world through fresh eyes and with a completely new perspective once you get to see how other people live.

### Personal Growth

During travel, you spend a lot of time outside of your comfort zone, which leads to a lot of growth at a rapid pace! You will grow to be more independent, even if you are traveling with others.

This can be a great way to gain more confidence too, and learn more about yourself, especially when traveling alone.

Traveling can bring a lot of clarity when it comes to how you want your life to be in the future.

Without the regular stressors of day-to-day life, your mind is clearer to start seeing what is really important to you for your life and your future.

## **APPLICATIONS**

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 Natural ONE. As a sample application, its focus is to show Natural ONE functionality rather than being a full-fledged travel support application.

The Travel Support System (TSS) 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.

## **CONCLUSION**

The project aim is to provide real-time knowledge for all the students who have basic knowledge of Salesforce and Looking for a real-time project. This project will also help to those professionals who are in cross-technology and wanted to switch to Salesforce with the help of this project they will gain knowledge and can include into their resume as well.

## **FUTURE SCOPE**

The Travel and Tourism Industry has grown by leaps and bounds and it will surely reach even better heights in the times to come. Today, when we talk about the growth of this industry, we cannot ignore mentioning the ample amount of career opportunities that lay subsumed in it.

Keeping up with the changing trends of the industry is vital for making a career in this field. The institutes imparting education in this sector ensure to do that. All the [Best Hotel Management Colleges in India](#) have made provisions to make students industry-ready via different online and offline programs.

Now, it is known to all that the year 2020 has been a little tough for almost every sector and Travel & Tourism is not an exception. But thankfully, with the relaxation provided by the state/country government and the possibility of vaccines to be ready sometime soon shortly, this industry also seems to be coming back on track. The latest mends to the travel and tourism industry have opened more job openings for the aspirants.

A report by [Business Wire](#) shares that in the phase 2020-2024, the Travel Services Market is projected to grow by \$56Billion in India. This implies that the years to come hold a lot of career scope for those who have completed the studies, currently pursuing and those who are planning on getting themselves enrolled.

To throw light on what this industry brings to the table, we have made a list of different job options it offers