



Capstone Project Report  
On  
**“Salesforce application”**  
**“Travel App & Code Playground”**

Submitted by:

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## **Abstract**

Salesforce, Inc. is an American cloud-based software company headquartered in San Francisco, California. It provides customer relationship management (CRM) software and applications focused on sales, customer service, marketing automation, analytics, and application development.

Salesforce's main technologies are tools for customer management. Other products enable customers to create apps, integrate data from other systems, visualize data, and offer training courses.

Force.com applications are built using declarative tools, backed by Lightning and Apex, a proprietary Java-like programming language for Force.com, as well as Visualforce, a framework including an XML syntax typically used to generate HTML. The Force.com platform typically receives three complete releases a year. As the platform is provided as a service to its developers, every single development instance also receives all these updates.

In here we work on how to Set up the Company Profile, Configuring the user Interface, setting up Activities and Calendars, Configuring Search Settings, Setting up Chatter Groups, Mobile Access with salesforce.

# Introduction

## Salesforce :-

Salesforce is a cloud-based software company that provides its customers with a platform to develop their own applications without following the tough steps that they used to follow in the legacy system. The software or application once created can be uploaded onto the cloud allowing the end-users to view them.

Salesforce is currently providing various software solutions and platforms for developers to create and distribute custom software/applications. Tech giants like Google, Twitter, Amazon, and Facebook are using Salesforce either in the form of SaaS or PaaS.



*Salesforce developers can make an application on the cloud and share it with multiple companies across multiple domains by using Salesforce.*

Talking about HR systems, every company across the globe has an HR team. Each HR team would require an HR application to store employee records. Almost all specifications for such an application would be common for all companies. So, as a developer, it would be very easy to create a Salesforce application for such specifications, post it onto the cloud, and provide it as a service to multiple clients.

at the same time. Maintenance of the same can be done altogether too. So basically, the problem of scalability gets eliminated.

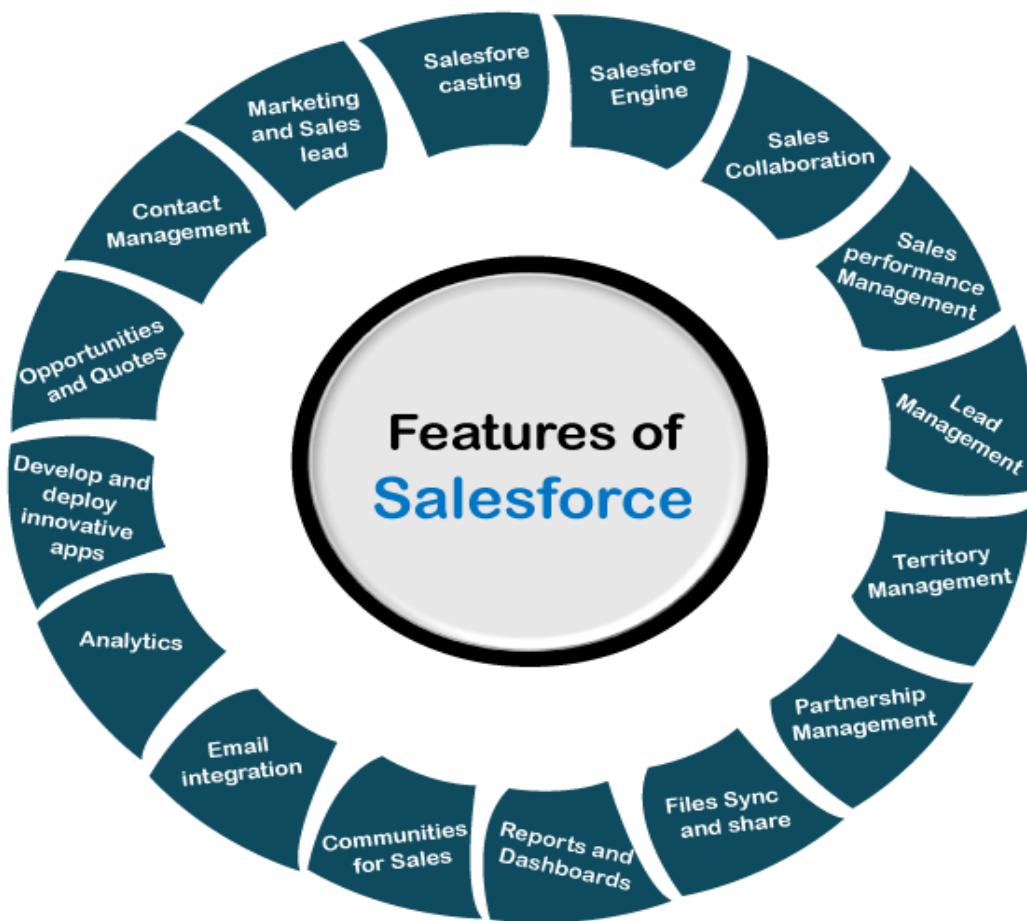
It is one of the most popular cloud-based CRM platforms that are designed for businesses. It has been developed by the company Salesforce and it helps in managing business processes, customer relationships and sales. It provides many tools for marketing, lead management, sales and other functionalities. The main purpose of the platform is to enhance sales performance and provide better customer service. This is one of the best ways to manage the leads and customers.



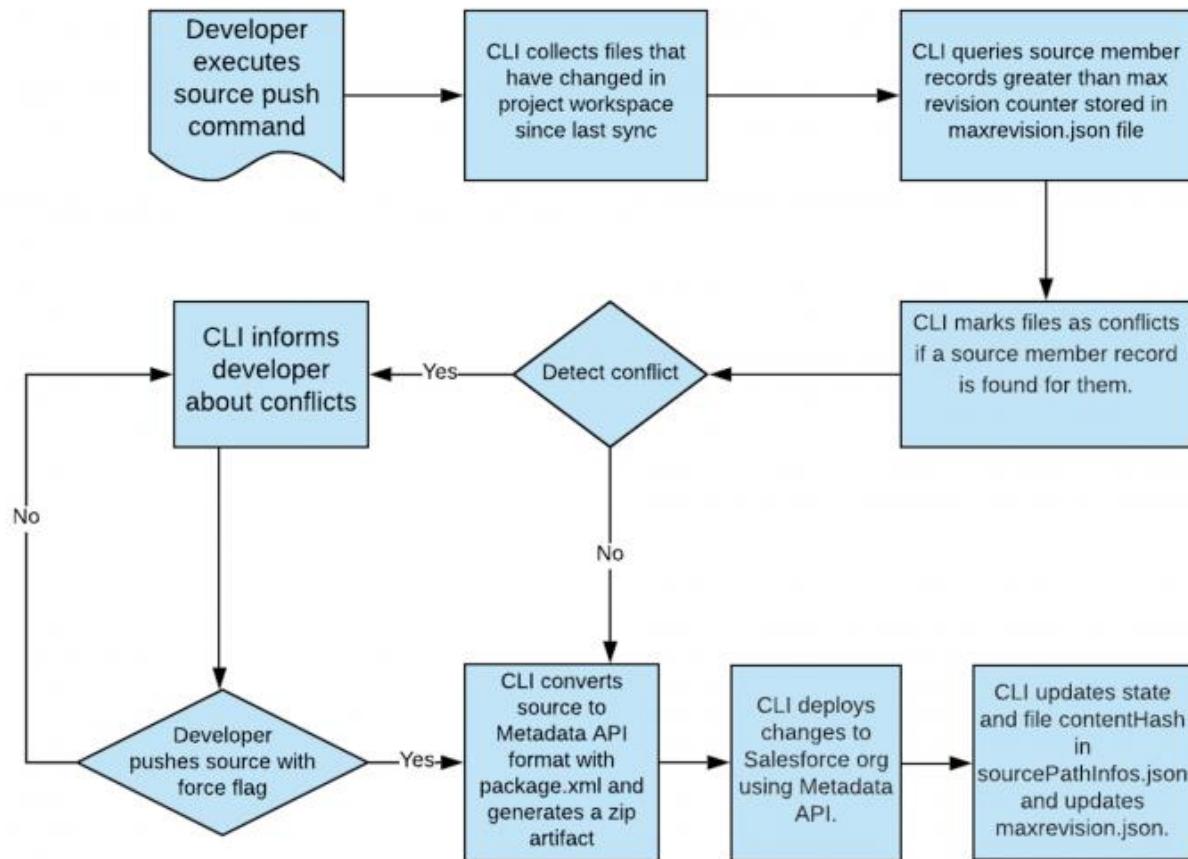
Salesforce is an enterprise resource planning (ERP) software that integrates multiple applications and helps in streamlining business processes. It provides you with various tools to maintain customer relationship, increase sales and marketing effectiveness and enhance customer service. If you want to know more about the features and benefits of Salesforce, then you can read this blog post.

Salesforce is a cloud-based solution that is secure, easy to use, and accessible anywhere. You can easily manage and track all of your leads, contacts, opportunities,

and accounts. You can create custom reports to help you better understand your business data.



## Flow of the Project



# Software Requirements

For the fastest and most stable experience, we recommend:

- An Octane 2.0 score of 30,000 or greater
- Network latency of 150 ms or less
- Download speed of 3 Mbps or greater
- At least 8 GB of RAM, with 3 GB available for Salesforce browser tabs

Minimum requirements are:

- An Octane 2.0 score of 20,000 or greater
- Network latency of 200 ms or less
- Download speed of 1 Mbps or greater
- At least 5 GB of RAM, with 2 GB available for Salesforce browser tabs

**OR**

Requirements	
Windows	
Operating system	<a href="#">Windows 8.1</a> 64-bit, <a href="#">Windows 8</a> 64-bit, Windows 7 Service Pack 1 64-bit, Windows Vista Service Pack 2 64-bit
CPU	<a href="#">Core 2 Quad</a> Q6600 at 2.4 GHz or <a href="#">AMD Phenom</a> 9850 at 2.5 GHz
Memory	4 GB <a href="#">RAM</a>
Free space	65 GB of free space

<b>Graphics hardware</b>	DirectX 10-compatible <a href="#">GPU: GeForce 9800GT</a> 1GB or <a href="#">ATI Radeon HD 4870</a> 1GB
<b>Sound hardware</b>	<a href="#">DirectX</a> 10 compatible <a href="#">sound card</a>

## Module – 1



# Business Requirement

Set up a Lightning app to streamline the travel approval process.	You need to create a custom application that meets these requirements:	Build a Lightning app, add tabs, and customize page layouts.	Create custom objects and fields for the app.
Define relationships between objects.	Import data.	Create Travel Approvals, Travel Expenses & Users.	Customize List views, Page Layouts, Related Lists.
Setup Approval settings for User.		Enable Chatter on the Travel Approval Object.	

Create a new custom lightning App, name: Travel App.

**New Lightning App**

**App Details & Branding**

Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.

<b>App Details</b>	<b>App Branding</b>
* App Name <input type="text" value="Travel App"/>	Image <input type="file"/> Primary Color Hex Value <input type="color" value="#0070D2"/>
* Developer Name <input type="text" value="Travel_App"/>	
Description <input type="text" value="Enter a description..."/>	Org Theme Options <input checked="" type="checkbox"/> Use the app's image and color instead of the org's custom theme

**App Launcher Preview**

Next

**Chatter Home | Salesforce**

Travel App Chatter Reports Dashboards

What I Follow To Me Bookmarked Company Highlights My Drafts

STREAMS + You don't have any streams yet. Try creating one!

RECENT GROUPS + Aw, you don't have any groups! Why not create or join some now?

Post Poll Question Share an update... Share

Sort by: Top Posts Search this feed... Stay tuned for highlights As things heat up in Chatter, updates from everywhere appear here.

## Create a Department custom object

The screenshot shows the Salesforce setup interface for creating a custom object named 'Department'. The left sidebar lists various setup categories like Page Layouts, Lightning Record Pages, and Fields & Relationships. The main content area is titled 'Edit Field Dependency' for the 'Location' field, which is defined as the 'Controlling Field'. The 'Dependent Field' is set to 'Department Type'. A legend indicates that yellow cells represent 'Included Value' and grey cells represent 'Excluded Value'. Two picklist tables are shown: one for 'Location' (Kolkata, Delhi) and one for 'Department Type' (Banking, Finance, Education, Energy, IT). Buttons for 'Save', 'Cancel', and 'Preview' are at the bottom.

## Create a Travel Approval Object

This screenshot shows a Salesforce Lightning Experience interface for a Travel Approval record. The record ID is TA00001. The page includes a navigation bar with tabs for Chatter, Reports, Dashboards, Departments, and Travel Approvals. The main content area has tabs for Related and Details. In the Details tab, fields include Travel Approval # (TA00001), Purpose Of Trip (Business Trip to USA), Status (New), Trip Start Date (22/02/2023), Trip End Date (02/03/2023), Out Of State (checked), Destination State (US), Department (Test 1), Created By (PALLAMKUPPAM ROHITH), and Last Modified By (PALLAMKUPPAM ROHITH). To the right is an Activity sidebar with sections for Upcoming & Overdue (empty) and Past activity (also empty).

This screenshot shows a Salesforce Lightning Experience interface for a list of Departments. The page includes a navigation bar with tabs for Chatter, Reports, Dashboards, Departments, and Travel Approvals. The main content area shows a list of 17 items, each with a checkbox and a department name. The items are numbered 1 through 17 and include: Audit Services, Contract Management, Disability Determination Bureau, Division of Aging, Division of Disability and Rehabilitative Services, Division of Family Resources, Division of Finance, Division of Mental Health and Addiction, Human Resources, Legislative Services, Office of Communications and Media, Office of Early Childhood and Out-of-School Learning, Office of General Counsel, Office of Medicaid Policy and Planning, Quality and Compliance Office, Technology, and Test 1.

Rank	Department Name
1	Audit Services
2	Contract Management
3	Disability Determination Bureau
4	Division of Aging
5	Division of Disability and Rehabilitative Services
6	Division of Family Resources
7	Division of Finance
8	Division of Mental Health and Addiction
9	Human Resources
10	Legislative Services
11	Office of Communications and Media
12	Office of Early Childhood and Out-of-School Learning
13	Office of General Counsel
14	Office of Medicaid Policy and Planning
15	Quality and Compliance Office
16	Technology
17	Test 1

The screenshot shows a Salesforce Lightning Experience interface for a Travel Approval record. The top navigation bar includes tabs for Hands-On Orgs, Lightning Experience | Salesforce, TA00002 | Salesforce, Object Manager | Salesforce, and a plus sign icon. The main header features a globe icon, the text "Travel App", and a search bar. Below the header, there are navigation links for Chatter, Reports, Dashboards, Departments, and Travel Approvals.

The main content area displays a "Travel Approval" record with ID TA00002. The "Details" tab is selected. The record contains the following fields:

- Travel Approval #: TA00002
- Purpose Of Trip: Attend Dreamforce
- Status: Draft
- Trip Start Date: 22/02/2023
- Trip End Date: 03/03/2023
- Out Of State:
- Destination State: CA
- Department: Technology

Under the "Created By" section, it shows PALLAMKUPPAM ROHITH on 21/02/2023, 4:14 pm. Under the "Last Modified By" section, it also shows PALLAMKUPPAM ROHITH on 21/02/2023, 4:14 pm.

To the right of the details, there is an "Activity" sidebar with a header "Activity". It includes a toolbar with icons for New Event, Create Task, Create Call, Create Email, and Refresh. The sidebar displays a message: "No activities to show. Get started by sending an email, scheduling a task, and more." Below this, another message states: "No past activity. Past meetings and tasks marked as done show up here."

The screenshot shows a Salesforce Lightning Experience interface for a Travel Approval record. The top navigation bar includes tabs for Hands-On Orgs, Lightning Experience | Salesforce, TA00001 | Salesforce, Travel Approval | Salesforce, and Travel Approval | Salesforce. The main content area displays the Travel Approval details for record TA00001. The left sidebar has sections for Related (Notes & Attachments, Expense Items), Details, and Activity. The Notes & Attachments section shows a placeholder for file uploads. The Expense Items section lists one item: E-00002 (Expense Type: Hotel, Amount: ₹870.00). The Activity sidebar shows no upcoming or overdue activities.

Related

Details

Notes & Attachments (0)

Upload Files

Expense Items (1)

New

Expense Item Number	Expense Type	Amount
E-00002	Hotel	₹870.00

View All

Activity

Filters: All time • All activities • All types

Refresh • Expand All • View All

Upcoming & Overdue

No activities to show.  
Get started by sending an email, scheduling a task, and more.

No past activity. Past meetings and tasks marked as done show up here.

The screenshot shows a Salesforce Lightning Experience interface for a Travel Approval record. The top navigation bar includes tabs for Hands-On Orgs, Lightning Experience | Salesforce, TA00001 | Salesforce, Travel Approval | Salesforce, Travel Approval | Salesforce, and a plus sign icon. The main header has a search bar and various navigation icons.

The page title is "Travel Approval" with ID "TA00001". The top menu bar includes links for Chatter, Reports, Dashboards, Departments, and Travel Approvals. The main content area is divided into sections:

- Related** tab: Shows "Notes & Attachments (0)" with an "Upload Files" button and a placeholder for file uploads.
- Details** tab: Shows "Expense Items (2)" with a table:

Expense Item Number	Expense Type	Amount
E-00002	Hotel	₹870.00
E-00003	Airfare	₹450.00

Buttons for "New" and "View All" are present.
- Activity** section: Displays activity icons for tasks, events, calls, and emails. A message says "Filters: All time • All activities • All types". Buttons for "Refresh", "Expand All", and "View All" are available.
- Upcoming & Overdue** section: States "No activities to show. Get started by sending an email, scheduling a task, and more."
- Past Activity** section: States "No past activity. Past meetings and tasks marked as done show up here."

# Test Collaboration

The screenshot shows a Salesforce Lightning Experience interface with the following details:

**Travel Approval Record (TA00001):**

- Travel Approval #:** TA00001
- Status:** New
- Out Of State:**
- Destination State:** US
- Department:** Test 1
- Trip Info:**
  - Purpose Of Trip: Business Trip to USA
  - Trip Start Date: 22/02/2023
  - Trip End Date: 02/03/2023
- Created By:** PALLAMKUPPAM ROHITH, 21/02/2023, 4:01 pm
- Last Modified By:** PALLAMKUPPAM ROHITH, 21/02/2023, 4:01 pm

**Chatter Feed:**

- Activity:** Post
- Post Content:** Share an update...
- Share Button:** Share
- Search Bar:** Search this feed...
- Comment:** @Eric Executive Which Department should I associate this travel request with?
- Comments:** 1 comment · 6 views
- Like:** Like
- Comment:** Comment
- Comment by Eric Executive:** Technology is the correct department
- Comment Input:** Write a comment...

## Module – 2



# Business Requirement

Add Business logic & Analytics to the Travel Approval App.

You will be adding Business logics, Reports and Dashboards to:

Enforce data integrity with validation rules.

Define business logic using roll-up summary and formula fields

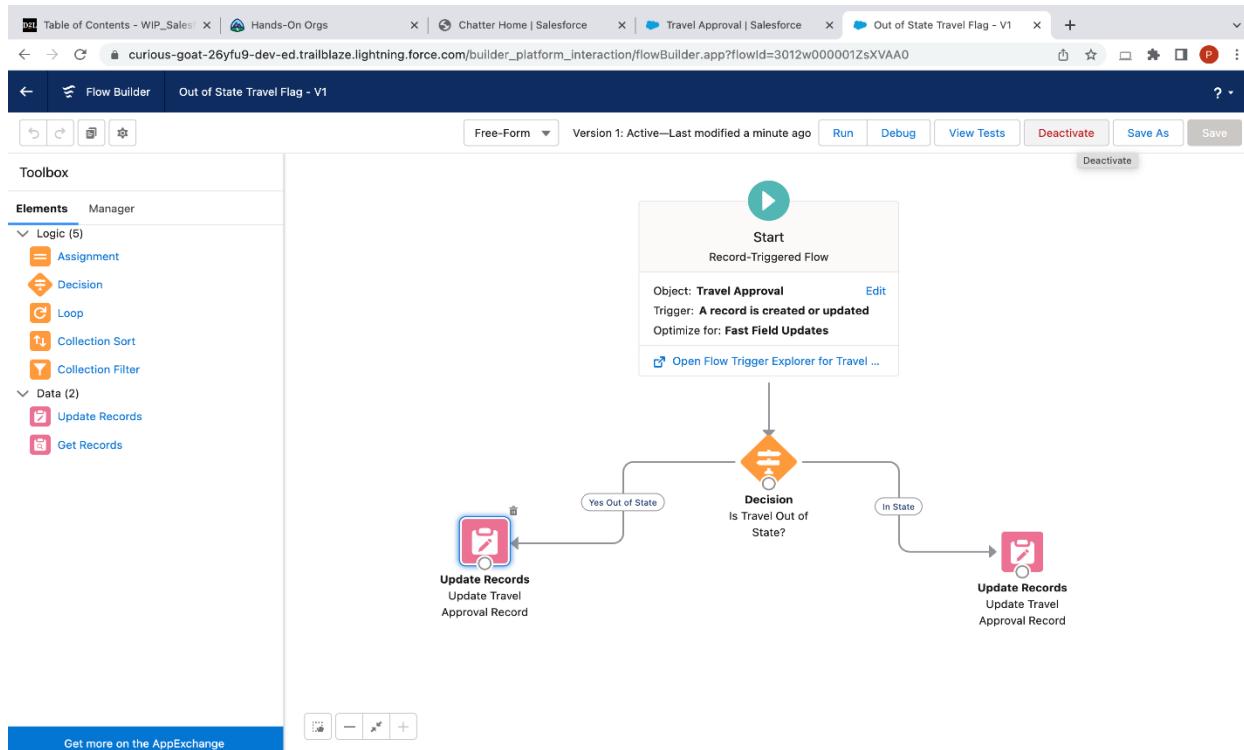
Automate business processes with Flows.

Define Approval Process for Travel Approval App.

Create Reports to analyze Travel Approvals.

Build Dashboards for Travel Approval Management.

## Test The Flow



# Test The Approval Process

This screenshot shows the Salesforce Lightning interface for the Travel Approvals page. The top navigation bar includes tabs for Table of Contents - WIP\_Sales, Hands-On Orgs, TA00001 | Salesforce, Home | Salesforce, and Out of State Travel Flag - V1. The main content area has a header "Travel App" with sub-links Chatter, Reports, Dashboards, Departments, and Travel Approvals. A search bar is at the top right.

The main content area displays three sections:

- Related**: Details section with a Notes & Attachments (0) panel containing an "Upload Files" button and a "Upload Files" link. Below it is an Expense Items (2) panel showing two entries:

Expense Item Number	Expense Type	Amount
E-00002	Hotel	₹870.00
E-00003	Airfare	₹450.00

Buttons for "New" and "View All" are present.
- Activity**: Chatter section showing activity icons and filters. It indicates "No activities to show." and "Get started by sending an email, scheduling a task, and more."
- Approval History**: (2) section showing two steps:

Step Name	Date	Status	Assigned To
Step 1	22/02/2023, 12:06 am	Pending	Eric Executive
Approval Request Submitted	22/02/2023, 12:06 am	Submitted	PALLAMKUPPAM ROHITH

Buttons for "Approve" and "Reject" are shown.

This screenshot shows a Process Instance Step detail view for "Travel Approval Approval" in Pending status. The top navigation bar is identical to the previous screenshot.

The main content area displays the following details:

**Process Instance Step**  
**Travel Approval Approval** [Pending]

Submitter	Date Submitted	Actual Approver	Assigned To
PALLAMKUPPAM ROHITH	22-Feb-2023	PALLAMKUPPAM ROHITH	PALLAMKUPPAM ROHITH

**Details** section:

**Approval Details**

Travel Approval #	Owner
TA00001	PALLAMKUPPAM ROHITH

**Approver Comments**

PALLAMKUPPAM ROHITH  
Submitted  
22-Feb-2023, 12:53:20 am

Travel Approval  
TA00001

Notes & Attachments (0)

Expense Items (2)

Expense Item Number	Expense Type	Amount
E-00002	Hotel	₹870.00
E-00003	Airfare	₹450.00

Approval History (3)

Step Name	Date	Status	Assigned To
Travel_Coordinator_Approval	22/02/2023, 12:08 am	Pending	Eric Executive
Step 1	22/02/2023, 12:08 am	Approved	Eric Executive
Approval Request Submitted	22/02/2023, 12:06 am	Submitted	PALLAMKUPPAM ROHITH

Process Instance Step  
Travel Approval Approval Approved

Submitter: PALLAMKUPPAM ROHITH Date Submitted: 22-Feb-2023 Actual Approver: Eric Executive Assigned To: Eric Executive

Details

Approval Details	Owner
Travel Approval # <a href="#">TA00001</a>	PALLAMKUPPAM ROHITH

Approver Comments

Eric Executive  
Approved  
22-Feb-2023, 12:08:26 am

The screenshot shows a Salesforce Lightning page for a travel approval request. The top navigation bar includes tabs for 'Table of Contents - WIP\_Sales', 'Hands-On Orgs', 'TA00001 | Salesforce', 'Home | Salesforce', and 'Out of State Travel Flag - V1'. The main content area has a header 'Travel App' with sub-links for Chatter, Reports, Dashboards, Departments, and Travel Approvals.

The page displays three main sections:

- Related:** A section titled 'Notes & Attachments (0)' with a 'Upload Files' button and a placeholder 'Or drop files'.
- Expense Items (2):** A table showing two expense items:

Expense Item Number	Expense Type	Amount
E-00002	Hotel	₹870.00
E-00003	Airfare	₹450.00

[View All](#)
- Approval History (3):** A table showing three approval steps:

Step Name	Date	Status	Assigned To
Travel_Coordinator_Approval	22/02/2023, 12:10 am	Approved	Eric Executive
Step 1	22/02/2023, 12:08 am	Approved	Eric Executive
Approval Request Submitted	22/02/2023, 12:06 am	Submitted	PALLAMKUPPAM ROHITH

[View All](#)

**Activity:** A sidebar titled 'Activity' showing a feed of activities. It includes a 'Chatter' tab, a toolbar for creating new activities (File, Task, Event, Message, etc.), and a 'Filters' section set to 'All time • All activities • All types'. Below this is a section titled 'Upcoming & Overdue' which states 'No activities to show. Get started by sending an email, scheduling a task, and more.' and 'No past activity. Past meetings and tasks marked as done show up here.'

# Test The App

The screenshot shows a Salesforce report titled "Report: Travel Approvals" with the specific view "Travel Requests by Month". The report displays 282 total records. The data is organized by month (January 2019) and includes subtotals for each category. The columns include Trip End Date, Out Of State, Travel Approval: Travel Approval #, Department, Status, Destination State, and Trip Start Date.

Trip End Date	Out Of State	Travel Approval: Travel Approval #	Department	Status	Destination State	Trip Start Date
January 2019 (16)	(12)	TA00182	Division of Finance	Approved	TX	10/01/2019
		TA00324	Division of Finance	Approved	TX	10/01/2019
		TA00253	Division of Finance	Approved	TX	10/01/2019
		TA00111	Division of Finance	Approved	TX	10/01/2019
		TA00357	Office of General Counsel	Approved	TX	04/01/2019
		TA00215	Office of General Counsel	Approved	TX	04/01/2019
		TA00286	Office of General Counsel	Approved	TX	04/01/2019
		TA00144	Office of General Counsel	Approved	TX	04/01/2019
		TA00156	Division of Family Resources	Approved	TX	04/01/2019
		TA00298	Division of Family Resources	Approved	TX	04/01/2019
		TA00227	Division of Family Resources	Approved	TX	04/01/2019
		TA00085	Division of Family Resources	Approved	TX	04/01/2019
Subtotal						
	(4)	TA00287	Disability Determination Bureau	Approved	OK	10/01/2019
		TA00145	Disability Determination Bureau	Approved	OK	10/01/2019
		TA00216	Disability Determination Bureau	Approved	OK	10/01/2019
		TA00074	Disability Determination Bureau	Approved	OK	10/01/2019

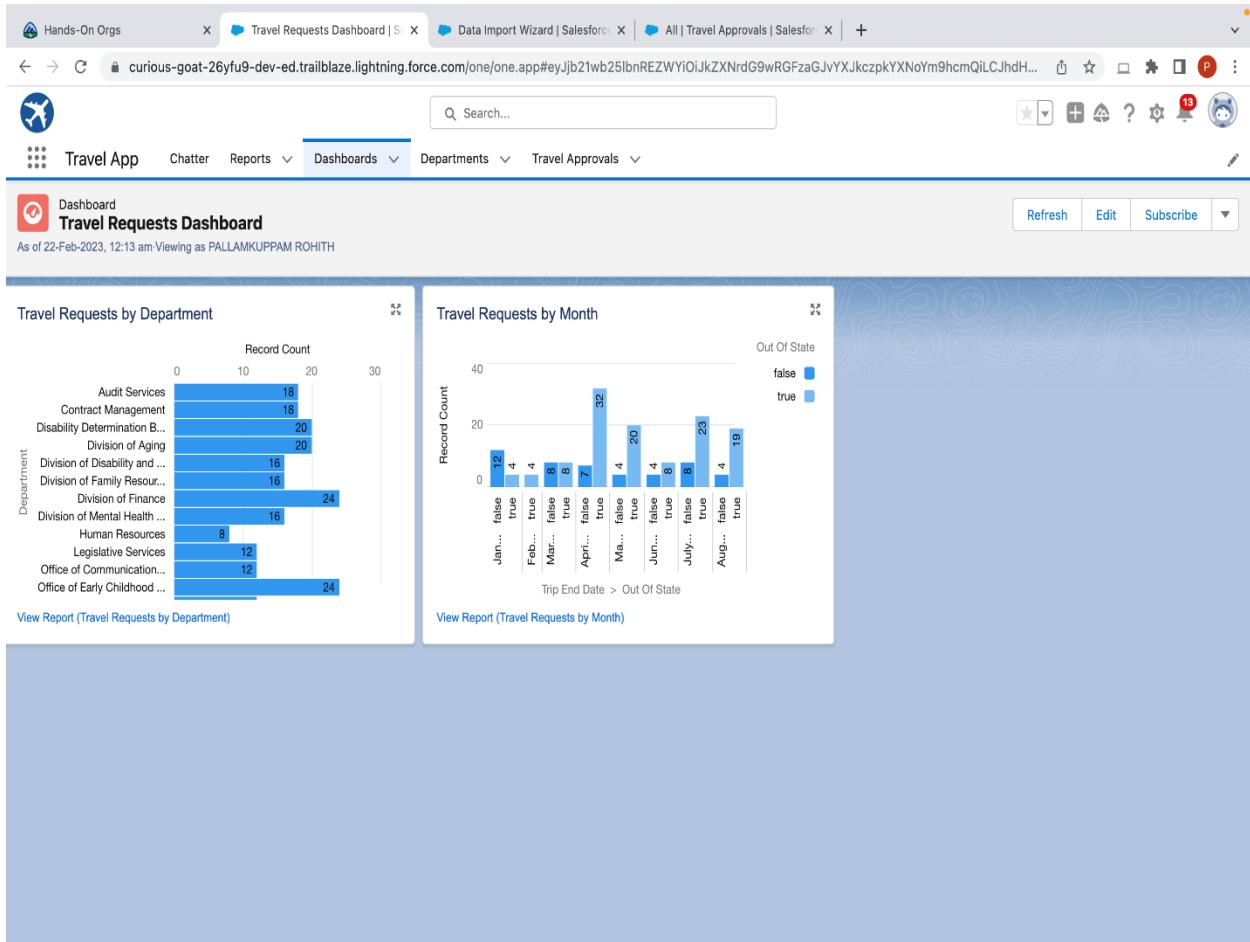
# Test The Report

The screenshot shows the Salesforce Report Builder interface. The title bar includes tabs for 'Hands-On Orgs', 'Report Builder | Salesforce', and 'Data Import Wizard | Salesforce'. The URL is 'curious-goat-26yfu9-dev-ed.trailblaze.lightning.force.com/lightning/r/Report/00O2w00000CGJ4lEAH/edit'. The page header for the 'Travel App' includes 'Chatter', 'Reports', 'Dashboards', 'Departments', and 'Travel Approvals'. The main content area is titled 'REPORT ▾ Travel Requests by Department ▾ Travel Approvals'. On the left, the 'Fields' sidebar shows 'Outline' selected under 'Groups' (with 'Department' and 'Status' listed) and 'Columns' (with 'Travel Approval: Travel Approval #' and other trip details). A note says 'Previewing a limited number of records. Run the report to see everything.' An 'Update Preview Automatically' toggle is off. A bar chart titled 'Record Count' shows counts for various departments: Contract Management (1), Disability Determination Bureau (2), Division A (1), Division B (4), Division C (1), Division D (1), Human Resources (1), Legal Department (2), Office of Finance (2), Office of HR (1), Office of Legal (1), Quality Control (1), and Technology (1). Below the chart is a table with columns: Department, Status, Travel Approval: Travel Approval #, Out Of State, Destination State, Trip Start Date, and Trip End Date. The table data is as follows:

Department	Status	Travel Approval: Travel Approval #	Out Of State	Destination State	Trip Start Date	Trip End Date
Contract Management (1)	Approved (1)	TA00081	<input checked="" type="checkbox"/>	OK	05/11/2019	05/11/2019
	Subtotal		1			
Disability Determination Bureau (2)	Approved (1)	TA00074	<input checked="" type="checkbox"/>	OK	10/01/2019	10/01/2019
	Subtotal		1			
	Rejected (1)	TA00080	<input checked="" type="checkbox"/>	OK	03/06/2019	03/07/2019
	Subtotal		1			
	Subtotal		2			

At the bottom, there are checkboxes for 'Row Counts', 'Detail Rows', 'Subtotals', and 'Grand Total', and a 'Conditional Formatting' button.

# Test The Dashboard



## Module 3



# Project Requirement

Demonstrate your Apex programming skills to:

Write and execute codes from Anonymous window.

Demonstrate the use of Data types & Variables.

Demonstrate the use of Control Flow Statement.

Define relationships between objects. Data Manipulation using DML.

Querying the Data base using SOQL.

Create Apex Classes, Objects & Interfaces

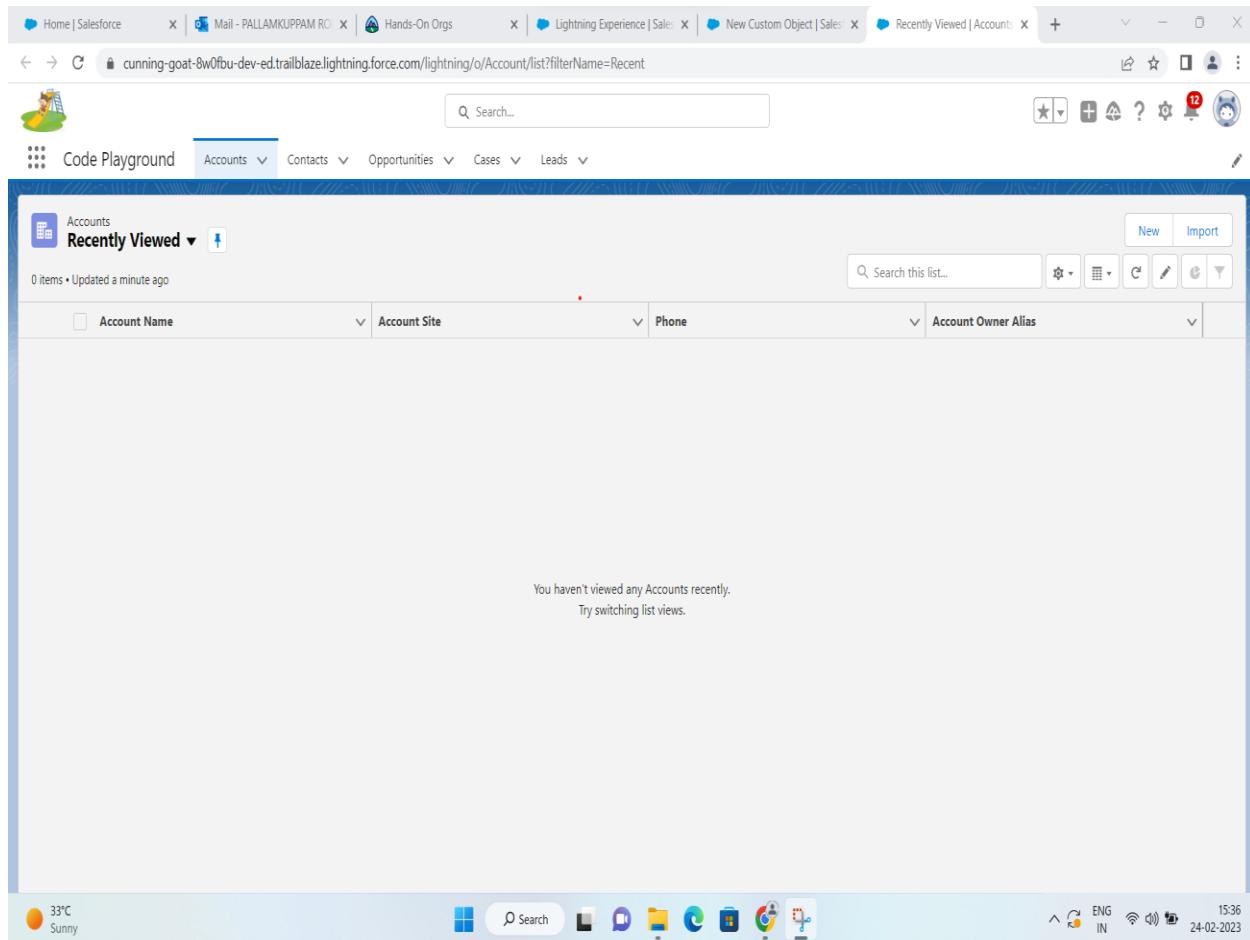
Write Apex Triggers

Write Test Classes.

Create VisualForce Pages.

# Exercise 1

Create a new custom lightning App, name: Code Playground



## Create a Custom Object

The screenshot shows the 'New Custom Object' page in the Salesforce Setup. The top navigation bar includes links for Home, Mail, Hands-On Orgs, Lightning Experience, New Custom Object, and Recently Viewed. The main title is 'New Custom Object'. Below it, a message states: 'Permissions for this object are disabled for all profiles by default. You can enable object permissions in permission sets or by editing custom profiles.' A 'Save' button is at the top right.

**Custom Object Definition Edit**

**Custom Object Information**

The singular and plural labels are used in tabs, page layouts, and reports.

Label	Customer	Example: Account
Plural Label	Customers	Example: Accounts
Starts with vowel sound	<input type="checkbox"/>	

The Object Name is used when referencing the object via the API.

Object Name	Customer	Example: Account
-------------	----------	------------------

Description:

Context-Sensitive Help Setting:

- Open the standard Salesforce.com Help & Training window
- Open a window using a Visualforce page

Content Name:

Enter Record Name Label and Format

System status: 33°C Sunny

System time: 15:37 24-02-2023

This screenshot shows the continuation of the 'New Custom Object' page. It includes sections for Object Settings, Object Classification, Deployment Status, Search Status, and Object Creation Options.

**Object Settings**

Allow Reports:

Allow Activities:

Track Field History:

Allow in Chatter Groups:

Enable Licensing:

**Object Classification**

When these settings are enabled, this object is classified as an Enterprise Application object. When these settings are disabled, this object is classified as a Light Application object. [Learn more](#)

Allow Sharing:

Allow Bulk API Access:

Allow Streaming API Access:

**Deployment Status**

In Development:

Deployed:

**Search Status**

When this setting is enabled, your users can find records of this object type when they search. [Learn more](#)

Allow Search:

**Object Creation Options (Available only when custom object is first created)**

Add Notes and Attachments related list to default page layout:

Launch New Custom Tab Wizard after saving this custom object:

Save, Save & New, Cancel buttons

System status: 33°C Sunny

System time: 15:38 24-02-2023

## Create a New Custom Tab of your choice.

The screenshot shows the Salesforce Setup interface with the 'Tabs' page selected. The main content area is titled 'New Custom Object Tab' and contains the following fields:

- Step 1. Enter the Details**: A sub-section with the instruction "Choose the custom object for this new custom tab. Fill in other details." It includes:
  - "Select an existing custom object or [create a new custom object now](#)".
  - "Object": A dropdown menu set to "Customer".
  - "Tab Style": A dropdown menu set to "Tab".
  - "Splash Page Custom Link": A dropdown menu set to "-None--".
- Description**: A text input field with the placeholder "Enter a short description." It contains a large empty text area.
- Buttons**: "Next" and "Cancel" buttons at the bottom right of the form.

The left sidebar shows the navigation path: Home > Setup > User Interface > Tabs. The status bar at the bottom indicates it's 15:43 on 24-02-2023, with weather information (33°C, Sunny) and system status (ENG IN).

The screenshot shows the Salesforce Setup interface with the 'Custom Tabs' page selected. The main content area is titled 'Custom Tabs' and contains the following sections:

- Custom Object Tabs**: A table with one row:

Action	Label	Tab Style	Description
Edit   Del	Customers	Tab	
- Web Tabs**: A table with one row:

Action	Label	Tab Style	Description
			No Web Tabs have been defined
- Visualforce Tabs**: A table with one row:

Action	Label	Tab Style	Description
			No Visualforce Tabs have been defined
- Lightning Component Tabs**: A table with two rows:

Action	Label	Tab Style	Description
Edit	Get Your Login Credentials	Flag	
Edit	Install a Package	Compass	

The left sidebar shows the navigation path: Home > Setup > User Interface > Tabs. The status bar at the bottom indicates it's 15:47 on 24-02-2023, with weather information (33°C, Sunny) and system status (ENG IN).

## Create a Custom fields for Customer Object

The screenshot shows the Salesforce Setup interface for creating a new custom field. The left sidebar is titled 'Customer' and lists various setup categories under 'Fields & Relationships'. The main panel is titled 'New Custom Field' and is on 'Step 2. Enter the details'. The field label is 'Active', the default value is 'Unchecked', and the field name is 'Active'. The 'Description' and 'Help Text' fields are empty. A checkbox for adding the field to existing report types is checked. The right side of the screen shows the system status bar with weather, battery, and connectivity information.

Customer  
New Custom Field

Step 2. Enter the details

Field Label: Active

Default Value:  Checked  Unchecked

Field Name: Active

Description:

Help Text:

Auto add to custom report type  Add this field to existing custom report types that contain this entity

Step 2 of 4

Previous Next Cancel

33°C Sunny ENG IN 15:56 24-02-2023

Customer  
New Custom Field

Step 2. Enter the details

Field Label: Customer Type

Values:  Use global picklist value set  Enter values, with each value separated by a new line

Premium  
Standard

Display values alphabetically, not in the order entered   
Use first value as default value   
Restrict picklist to the values defined in the value set

Field Name: Customer\_Type

Description:

Step 2 of 4

Previous Next Cancel

33°C Sunny ENG IN 15:59 24-02-2023

The screenshot shows the Salesforce Setup interface for the 'Customer' object. On the left, a sidebar lists various setup options like Details, Fields & Relationships, Page Layouts, etc. The main area is titled 'Customer New Relationship' and is at 'Step 2 of 6'. It asks to 'Select the other object to which this object is related' and has a dropdown set to 'Customer'. Navigation buttons 'Previous', 'Next', and 'Cancel' are visible.

The screenshot shows the Salesforce Setup interface for the 'Customer' object. On the left, a sidebar lists various setup options like Details, Fields & Relationships, Page Layouts, etc. The main area is titled 'Customer New Custom Field' and is at 'Step 2 of 4'. It asks to 'Enter the details' for a new custom field named 'Description'. The 'Field Label' is also 'Description'. Under 'Required', there is an unchecked checkbox. Under 'Auto add to custom report type', there is a checked checkbox. The 'Default Value' section contains a 'Show Formula Editor' button and a note about formula syntax. Navigation buttons 'Previous', 'Next', and 'Cancel' are visible.

The screenshot shows the Salesforce Setup interface with the following details:

- Tab Bar:** Home | Salesforce, Mail - PALLAMKUPPA, Hands-On Orgs, Lightning Experience, Customer | Salesforce, Recently Viewed | Acc, PALNATI SAI KUMAR.
- Search Bar:** Search Setup
- Header:** Customer
- Left Sidebar:** Details, Fields & Relationships (selected), 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, Restriction Rules, Scoping Rules.
- Table:** Fields & Relationships (7 items, Sorted by Field Label)

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Active	Active__c	Checkbox		
Created By	CreatedById	Lookup(User)		
Customer	Customer__c	Master-Detail(Customer)	✓	
Customer Name	Name	Name	✓	
Customer Type	Customer_Type__c	Picklist		
Description	Description__c	Text Area(255)		
Last Modified By	LastModifiedById	Lookup(User)		
- Bottom Bar:** Weather (33°C, Sunny), Search, and various system icons.
- System Information:** ENG IN, 24-02-2023, 16:02.

## Create a Custom Object

The screenshot shows the Salesforce Setup interface with the following details:

- Page Title:** New Custom Object
- Section:** Custom Object Definition Edit
- Custom Object Information:**
  - Label: Billing (Example: Account)
  - Plural Label: Billings (Example: Accounts)
  - Starts with vowel sound:
- Object Name:** Billing (Example: Account)
- Description:** (Empty text area)
- Context-Sensitive Help Setting:**
  - Open the standard Salesforce.com Help & Training window
  - Open a window using a Visualforce page
- Content Name:** -None-
- Enter Record Name Label and Format:** (Section header)

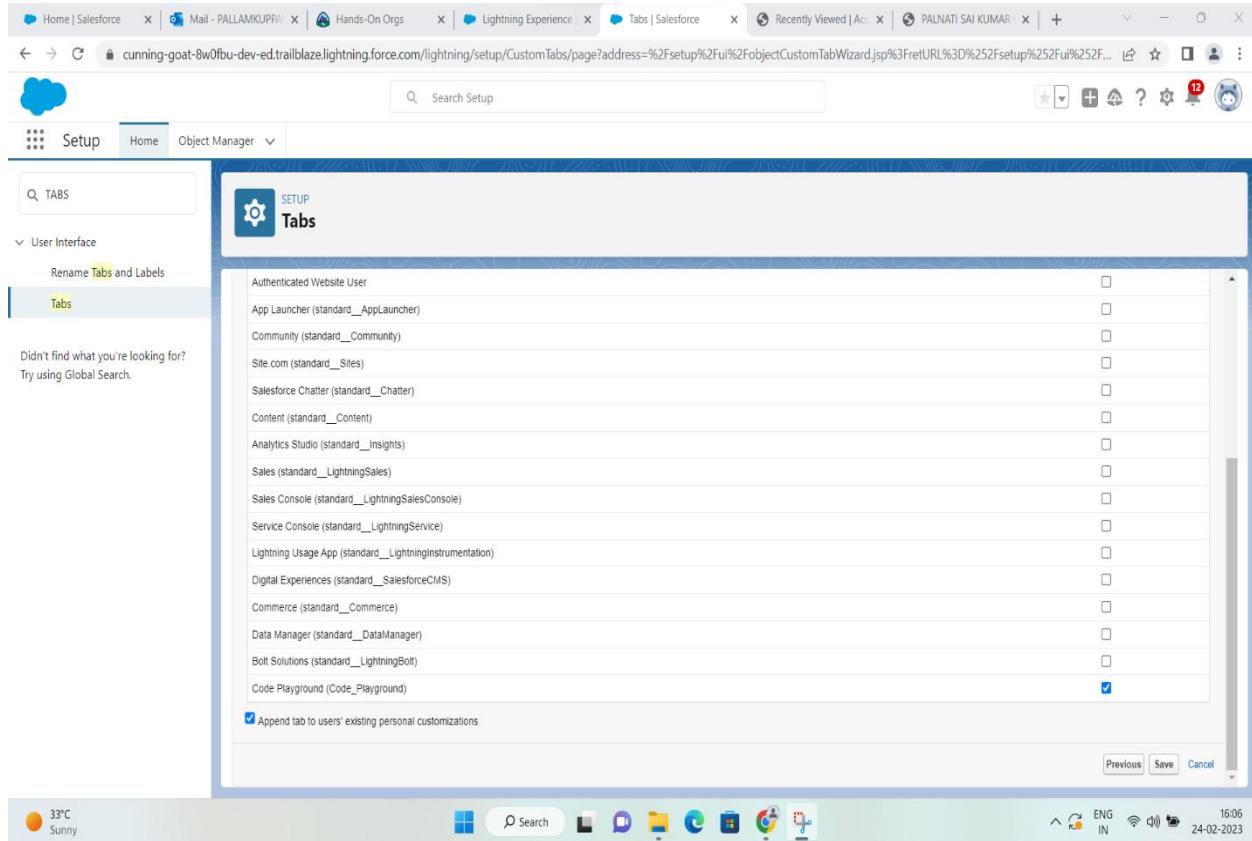
The browser status bar at the bottom shows: 33°C Sunny, ENG IN, 16:04, 24-02-2023.

## Create Custom Tab

The screenshot shows the Salesforce Setup interface with the following details:

- Page Title:** New Custom Object Tab
- Section:** Step 1. Enter the Details
- Instructions:** Choose the custom object for this new custom tab. Fill in other details.
- Object Selection:** Select an existing custom object or create a new custom object now.
  - Object: Billing
  - Tab Style: Building
- Optional:** Choose a Home Page Custom Link to show as a splash page the first time your users click on this tab.
  - Splash Page Custom Link: -None-
- Description:** (Empty text area)
- Buttons:** Next, Cancel

The browser status bar at the bottom shows: 33°C Sunny, ENG IN, 16:05, 24-02-2023.



## Create Custom Fields

The screenshot shows the Salesforce Setup interface for creating a new custom field. The object being created is 'Billing'. The field label is 'Amount Paid', with a length of 18 and 0 decimal places. The field name is 'Amount\_Paid'. There is no description or help text provided. The 'Required' checkbox is unchecked, and the 'Auto add to custom report type' checkbox is checked. The default value is set to 'Show Formula Editor'. The sidebar on the left lists various setup categories under 'Fields & Relationships'.

The screenshot shows the Salesforce Setup interface for creating a new custom field. The object being created is 'Billing'. The field label is 'Customer Type', with the 'Values' section set to 'Enter values, with each value separated by a new line'. The values entered are 'Premium' and 'Standard'. The field name is 'Customer\_Type'. The 'Description' field is empty. The 'Required' checkbox is unchecked, and the 'Auto add to custom report type' checkbox is checked. The default value is set to 'Show Formula Editor'. The sidebar on the left lists various setup categories under 'Fields & Relationships'.

The screenshot shows the Salesforce Setup interface for creating a new custom field. The left sidebar is titled 'Fields & Relationships' and includes options like 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, Restriction Rules, and Scoping Rules. The main area is titled 'New Custom Field' and 'Step 2. Enter the details'. The 'Field Label' is set to 'Status'. Under 'Values', the 'Enter values, with each value separated by a new line' option is selected, and the input field contains 'Paid' and 'Unpaid'. There are also checkboxes for 'Display values alphabetically, not in the order entered', 'Use first value as default value', and 'Restrict picklist to the values defined in the value set'. The 'Field Name' is also set to 'Status'. The bottom status bar shows the weather as 33°C and sunny, and the date and time as 24-02-2023.

# Test The App

Home | Salesforce | Mail - PALLAMKUPP... | Hands-On Orgs | Lightning Experience | Billing | Salesforce | All Accounts | Account List | PALNATI SAI KUMAR | +

cunning-goat-8w0fbu-dev-ed.trailblaze.lightning.force.com/lightning/o/Account/list?filterName=00B2w00000a6ChEAK

Code Playground Accounts All Accounts

13 items • Sorted by Account Name • Filtered by All accounts • Updated a few seconds ago

	Account Name ↑	Account Site	Billing State/Province	Phone	Type	Account Owner Alias
1	Burlington Textiles Corp of America	NC	(336) 222-7000	Customer - Direct	PROHI	
2	Dickenson plc	KS	(785) 241-6200	Customer - Channel	PROHI	
3	Edge Communications	TX	(512) 757-6000	Customer - Direct	PROHI	
4	Express Logistics and Transport	OR	(503) 421-7800	Customer - Channel	PROHI	
5	GenePoint	CA	(650) 867-3450	Customer - Channel	PROHI	
6	Grand Hotels & Resorts Ltd	IL	(312) 596-1000	Customer - Direct	PROHI	
7	Pyramid Construction Inc.		(014) 427-4427	Customer - Channel	PROHI	
8	Sample Account for Entitlements				autopro	
9	sForce	CA	(415) 901-7000		PROHI	
10	United Oil & Gas Corp.	NY	(212) 842-5500	Customer - Direct	PROHI	
11	United Oil & Gas, Singapore	Singapore	(650) 450-8810	Customer - Direct	PROHI	
12	United Oil & Gas, UK	UK	+44 191 4956203	Customer - Direct	PROHI	
13	University of Arizona	AZ	(520) 773-9050	Customer - Direct	PROHI	

33°C Sunny

Search

16:12 24-02-2023

# Exercise 2

Use Execute Anonymous to define and execute the following code

Define a String Variable & use string method ‘endsWith’ to display the output.

The screenshot shows the Salesforce Developer Console interface. In the center, there is a modal window titled "Enter Apex Code" containing the following Apex code:

```
1 String s ='Trained In Manipal';
2 if(s.endsWith('Manipal'))
3 {
4     system.debug('True');
5 }
6 else
7 {
8     system.debug('False');
9 }
```

Below the code editor, there are three buttons: "Open Log", "Execute", and "Execute Highlighted". The "Execute" button is highlighted with a blue border. At the bottom of the developer console, there is a toolbar with various icons and a status bar showing the date and time (24-02-2023, 16:22).

Define 2 Date type variables, use Date method today() & addDays(30) to display the output

The screenshot shows the Salesforce Developer Console interface. At the top, the URL is `cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. Below the header, there's a navigation bar with File, Edit, Debug, Test, Workspace, Help, and a Log executeAnonymous button. The log shows a single entry: `16:29:21:002 USER_DEBUG [3] DEBUG 2023-03-26 00:00:00`. A modal window titled "Enter Apex Code" contains the following code:

```
1 Date todayDate = date.today();
2 Date newDate = todayDate.addDays(30);
3 System.Debug(newDate);
```

Below the code editor, there are three buttons: Open Log, Execute, and Execute Highlighted. The "Execute" button is highlighted in orange. The main pane below the log shows a progress bar with the status "Logs" and a progress bar icon. The progress bar has several segments, with the first one labeled "Fetching MetadataContainer for workspace 1de2w00000RUgkAA1" and the status "Finished". The progress bar also includes columns for Start, End, Duration (m), Handler Err, Ajax Err, and Delay. At the bottom of the screen, there's a taskbar with icons for File Explorer, Search, Task View, Microsoft Edge, File Explorer, Google Chrome, and a Microsoft Word icon. The system tray shows the date as 24-02-2023, the time as 16:33, and various system icons.

Display the output of an Integer variable from string ‘10’ and then add 20 to it.

The screenshot shows the Salesforce Developer Console interface. At the top, the URL is `cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. Below the URL is a menu bar with File, Edit, Debug, Test, Workspace, Help, and navigation arrows. A yellow banner at the top indicates a log entry: **Log executeAnonymous @2/24/2023, 4:37:41 PM**. The main area is titled "Execution Log". It contains a table with one row: Timestamp (16:37:41:003), Event (USER\_DEBUG), and Details ([3]DEBUG|30). Below the log table is a modal window titled "Enter Apex Code" containing the following code:

```
1 String R = '10';
2 Integer K = Integer.Valueof(R);
3 system.debug(K + 20);
```

At the bottom of the modal are three buttons: Open Log, Execute, and Execute Highlighted. The "Logs" tab is selected in the navigation bar below the modal. The log table shows a single entry:

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	/services/data/v57.0/tooling/executeAn...	2/24/2023, 4:37:41 PM	Success		2.32 KB

At the bottom of the screen, there is a taskbar with icons for weather (33°C, Sunny), search, file explorer, internet browser, and other system tools. The date and time are also displayed: 16:37 IN 24-02-2023.

Define a String Variable & use string method length() to display the output

The screenshot shows the Salesforce Developer Console interface. At the top, the URL is `cunning-goat-fw0fhu-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. The menu bar includes File, Edit, Debug, Test, Workspace, Help, and a search bar. A message bar at the top right says "Log executeAnonymous @2/24/2023, 4:41:32 PM".

The main area has tabs for Execution Log, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. The Execution Log tab is active, showing a timestamp of 16:41:32:002 and an event of USER\_DEBUG with message "[3]DEBUG|Length of the string = 18".

A modal window titled "Enter Apex Code" displays the following code:

```
1 String R = 'RohithPallamkuppam';
2 Integer Result = R.length();
3 system.debug('Length of the string = '+ Result);
```

At the bottom of the modal are buttons for Open Log, Execute, and Execute Highlighted.

Below the log, there is a table titled "Logs" showing one entry:

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	/services/data/v57.0/tooling/executeAn...	2/24/2023, 4:41:32 PM	Success		2.54 KB

At the bottom of the screen, there is a taskbar with icons for Start, Search, Task View, File Explorer, Edge, and Google Chrome. The system tray shows the date (24-02-2023), time (16:41), battery level (33°C), and network status (Sunny).

Define a List of integer and display the output using add(), get(), set(), clear(), methods

The screenshot shows the Salesforce Developer Console interface. At the top, there's a navigation bar with links like File, Edit, Debug, Test, Workspace, Help, and a search bar. Below the bar, a message box displays "Log executeAnonymous @2/24/2023, 4:48:07 PM". The main area is divided into two sections: "Execution Log" on the left and "Enter Apex Code" on the right.

**Execution Log:**

Timestamp	Event	Details
16:48:07:004	USER_DEBUG	[5]DEBUG(1, 27, 33)
16:48:07:004	USER_DEBUG	[7]DEBUG 1
16:48:07:004	USER_DEBUG	[9]DEBUG (50, 27, 33)
16:48:07:004	USER_DEBUG	[11]DEBUG ()

**Enter Apex Code:**

```
1 List<Integer> R = new List<Integer>();  
2 R.add(1);  
3 R.add(27);  
4 R.add(33);  
5 system.debug(R);  
6 Integer num = R.get(0);  
7 system.debug(num);  
8 R.set(0,50);  
9 system.debug(R);  
10 R.clear();  
11 system.debug(R);
```

At the bottom of the code editor, there are three buttons: "Open Log", "Execute", and "Execute Highlighted".

**Logs:**

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	/services/data/v57.0/tooling/executeAn...	2/24/2023, 4:48:07 PM	Success		3.48 KB

Below the logs, there's a status bar showing the weather (33°C, Sunny), system icons, and the date/time (24-02-2023, 16:48).

Use Execute Anonymous to define and execute the following code to display the value of x = 0 to 9.

The screenshot shows the Salesforce Developer Console interface. At the top, the URL is `cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. Below the header, there's a menu bar with File, Edit, Debug, Test, Workspace, Help, and a search bar. A message "Log executeAnonymous @2/24/2023, 4:57:59 PM" is displayed. The main area has two panes: "Execution Log" on the left and "Enter Apex Code" on the right. The Execution Log pane shows a timestamped list of USER\_DEBUG logs from line 16:57:59:002 to 16:57:59:003, each outputting the value of x from 0 to 9. The Enter Apex Code pane contains the following Apex code:

```
1 Integer x=0;
2 for(integer x = 0;x<10;x=x+1)
3 {
4     system.debug('Value of x is: '+x);
5 }
6
7
```

At the bottom of the Enter Apex Code pane are three buttons: Open Log, Execute, and Execute Highlighted. The bottom part of the interface shows a toolbar with various icons, a weather widget (33°C, Sunny), and a status bar with the date (24-02-2023) and time (16:58).

## Exercise 3

Answer the following in True Or False:

The screenshot shows the Salesforce Developer Console interface. At the top, the URL is `cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. Below the URL is a menu bar with File, Edit, Debug, Test, Workspace, Help, and a back/forward button. A yellow status bar at the top right displays "Log executeAnonymous @2/24/2023, 5:08:01 PM". The main area has a blue header bar labeled "Execution Log". Below it is a table with columns: Timestamp, Event, and Details. A single row is visible: "17:08:01:002" under Timestamp, "USER\_DEBUG" under Event, and "[3] DEBUG false" under Details. Overlaid on the log table is a modal window titled "Enter Apex Code". Inside the modal, there is a code editor containing the following Apex code:

```
1 Integer myluckyNumber = 15;
2 Integer myunluckyNumber = 7;
3 system.debug(myluckyNumber != myunluckyNumber +8);
```

At the bottom of the modal are three buttons: "Open Log" (with a checked checkbox), "Execute", and "Execute Highlighted".

Below the modal is a "Logs" tab in the main console interface. The logs table has columns: User, Application, Operation, Time, Status, Read, and Size. One log entry is listed:

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	/services/data/v57.0/tooling/executeAn...	2/24/2023, 5:08:01 PM	Success		2.41 KB

At the bottom of the logs section are two buttons: "Filter" and "Click here to filter the log list".

# Exercise 4

Answer the following in True Or False:

The screenshot shows the Salesforce Developer Console interface. At the top, there's a header bar with the title "Developer Console - Google Chrome" and the URL "cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage". Below the header is a menu bar with "File", "Edit", "Debug", "Test", "Workspace", "Help", and navigation icons. A status bar at the bottom displays the log entry: "Log executeAnonymous @2/24/2023, 5:23:05 PM".  
  
The main area is divided into two sections: "Execution Log" and "Enter Apex Code". The "Execution Log" section has a table with columns "Timestamp", "Event", and "Details". It shows one entry: "17:23:05:003 USER\_DEBUG [3]DEBUG|true". The "Enter Apex Code" section contains a code editor with the following Apex code:

```
1 Boolean.isTrue = True;
2 Boolean.isFalse = false;
3 system.debug(isTrue || isFalse);
```

Below the code editor are three buttons: "Open Log", "Execute", and "Execute Highlighted".  
  
At the bottom of the screen, there's a "Logs" tabbed interface. The "Logs" tab is selected, showing a table with columns "User", "Application", "Operation", "Time", "Status", "Read", and "Size". One log entry is listed: "PALLAMKUPPAM ROHITH Unknown /services/data/v57.0/tooling/executeAn... 2/24/2023, 5:23:05 PM Success 2.35 KB". There are also "Tests", "Checkpoints", "Query Editor", "View State", "Progress", and "Problems" tabs.

# Exercise 5

Answer the following in True Or False:

The screenshot shows the Salesforce Developer Console interface. At the top, the URL is `cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. Below the URL, there's a navigation bar with File, Edit, Debug, Test, Workspace, Help, and a search bar. A yellow banner at the top indicates a log entry: "Log executeAnonymous @2/24/2023, 5:26:19 PM". The main area is divided into two sections: "Execution Log" and "Enter Apex Code". The "Execution Log" table has columns for Timestamp, Event, and Details. One entry shows a USER\_DEBUG log at 17:26:19:003 with the event [3] DEBUG[true]. The "Enter Apex Code" window contains the following Apex code:

```
1 Date today = Date.today();
2 Date tomorrow = Date.today().addDays(1);
3 system.debug(today!=tomorrow);
```

At the bottom of the "Enter Apex Code" window are three buttons: Open Log, Execute, and Execute Highlighted. The "Logs" tab in the bottom navigation bar is selected, showing a single log entry in the table:

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	/services/data/v57.0/tooling/executeAn...	2/24/2023, 5:26:19 PM	Success		2.45 KB

Below the logs table is a "Filter" button and a link "Click here to filter the log list".

# Exercise 6

Write a program and execute to demo the use of “If..else if...else”

The screenshot shows the Salesforce Developer Console interface. At the top, it displays the URL: `cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. Below the URL is a menu bar with options: File, Edit, Debug, Test, Workspace, Help, and a search bar. A yellow banner at the top indicates "Log executeAnonymous @2/24/2023, 5:37:03 PM". The main area is titled "Execution Log" and contains a table with columns: Timestamp, Event, and Details. One entry is shown: "17:37:03:002 USER\_DEBUG [16] DEBUG Grade:Failed". To the right of the log table is a large "Enter Apex Code" text area containing the following Apex code:

```
1 Integer Score = 76;
2 if(Score == 100)
3 {
4     system.debug('Grade:A+');
5 }
6 else if(Score >= 90)
7 {
8     system.debug('Grade:A');
9 }
10 else if(Score >= 80)
11 {
12     system.debug('Grade:B');
13 }
14 else
15 {
16     system.debug('Grade:Failed');
17 }
```

Below the code editor are several filter options: "This Frame", "Executable", "Debug Only" (which is checked), "Filter", and "Click here to filter the log". There is also an "Open Log" button. The bottom section of the interface is a "Logs" tab showing a table of log entries. One entry is listed:

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	/services/data/v57.0/tooling/executeAn...	2/24/2023, 5:37:03 PM	Success		2.63 KB

At the bottom of the logs table is a "Filter" button and a "Click here to filter the log list" link.

## Exercise 7

Write a program to execute and demo the use of “Apex – for Loop”

The screenshot shows the Salesforce Developer Console interface. The top navigation bar includes 'File', 'Edit', 'Debug', 'Test', 'Workspace', 'Help', and a search bar. The main area displays the code for 'billingloop.apxc'.

```
1 public class billingloop {
2     public static void viewBills(){
3         List<Billing__c> listofBills= [select Id, Name, Status__c FROM Billing__c];
4         List<String> billRecords= new list<string>();
5         for(Billing__c bill : listofBills){
6             system.debug('value of current Record on which loop is iterating is:' + listofBills);
7             if(bill.Status__c == 'Paid'){
8                 billRecords.add(bill.Name);
9             }
10            }
11            system.debug('Billing Records are: '+billRecords);
12        }
13    }
```

Below the code editor is a 'Logs' tab, which is currently selected. It shows a single log entry:

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/24/2023, 7:45:18 PM	Success	Unread	996 bytes

At the bottom of the logs section, there is a 'Filter' input field and a link 'Click here to filter the log list'.

Developer Console - Google Chrome  
 cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage

File ▾ Edit ▾ Debug ▾ Test ▾ Workspace ▾ Help ▾ < >

**billingloop.apxc**

Code Coverage: None API Version: 57 Go To

```

1 public class billingloop {
2   public static void viewBills(){
3     List<Billing__c> listofBills= [select Id, Name, Status__c FROM Billing__c];
4     List<String> billRecords= new list<string>();
5     for(Billing__c bill : listofBills){
6       system.debug('value of current Record on which loop is iterating is:' + listofBills);
7       if(bill.Status__c == 'Paid'){
8         billRecords.add(bill.Name);
9       }
10    }
11    system.debug('Billing Records are: ' + billRecords);
12  }
13 }
```

Enter Apex Code

```
1 billingloop.viewbills();
```

Open Log Execute Execute Highlighted

Logs	Tests	Checkpoints	Query Editor	View State	Progress	Problems
User PALLAMKUPPAM ROHITH	Application Unknown	Operation /services/data/v57.0/tooling/executeAn...	Time 2/24/2023, 7:47:55 PM	Status Success	Read	Size 6.66 KB
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/24/2023, 7:45:18 PM	Success	Unread	996 bytes

Developer Console - Google Chrome  
 cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage

File ▾ Edit ▾ Debug ▾ Test ▾ Workspace ▾ Help ▾ < >

**billingloop.apxc** Log executeAnonymous @2/24/2023, 7:49:41 PM

Execution Log

Timestamp	Event	Details
19:49:41:013	USER_DEBUG	[6]DEBUG value of current Record on which loop is iterating is:(Billing__c:{Id=a012w000017su4fAAA, Name=B-0002, Status__c=Paid}, Billing__c:{Id=a012w000017su4fAAA, Name=B-0001, Status__c=Paid}, Billing__c:{Id=a012w000017su4fAAA, Name=B-0003, Status__c=Paid})
19:49:41:013	USER_DEBUG	[6]DEBUG value of current Record on which loop is iterating is:(Billing__c:{Id=a012w000017su4fAAA, Name=B-0002, Status__c=Paid}, Billing__c:{Id=a012w000017su4fAAA, Name=B-0001, Status__c=Paid}, Billing__c:{Id=a012w000017su4fAAA, Name=B-0003, Status__c=Paid})
19:49:41:013	USER_DEBUG	[6]DEBUG value of current Record on which loop is iterating is:(Billing__c:{Id=a012w000017su4fAAA, Name=B-0002, Status__c=Paid}, Billing__c:{Id=a012w000017su4fAAA, Name=B-0001, Status__c=Paid}, Billing__c:{Id=a012w000017su4fAAA, Name=B-0003, Status__c=Paid})
19:49:41:013	USER_DEBUG	[11]DEBUG Billing Records are: (B-0002, B-0001, B-0003)

# Exercise 8

Write a Class to demo the use of Constants in Apex

The screenshot shows the Salesforce Developer Console interface. At the top, the title bar reads "Developer Console - Google Chrome" and the URL is "cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/\_ui/common/apex/debug/ApexCSPage". The menu bar includes File, Edit, Debug, Test, Workspace, Help, and a navigation arrow. Below the menu is a tabs section with "DiscountClass.apxc" highlighted in orange. The main editor area contains the following Apex code:

```
1 public class DiscountClass {
2     public static Decimal calculateDiscount(Integer price){
3         Decimal regularDiscount= 0.1;
4         Decimal finalprice = price - price*regularDiscount;
5         return finalprice;
6     }
7 }
```

Below the code editor is a "Logs" tab. The logs table has the following columns: User, Application, Operation, Time, Status, Read, and Size. There is one entry:

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/24/2023, 8:00:43 PM	Success	Unread	996 bytes

At the bottom of the logs section is a "Filter" input field with the placeholder "Click here to filter the log list".

Developer Console - Google Chrome  
cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage

File ▾ Edit ▾ Debug ▾ Test ▾ Workspace ▾ Help ▾ < >

DiscountClass.apxc Log executeAnonymous @2/26/2023, 10:54:02 AM

Code Coverage: None API Version: 57 Go To

```
1 public class DiscountClass {  
2     public static Decimal calculateDiscount(Integer price){  
3         Decimal regularDiscount= 0.1;  
4         Decimal finalprice = price - price*regularDiscount;  
5         return finalprice;  
6     }  
7 }
```

Enter Apex Code

```
1 Decimal finalprice=discountClass.calculateDiscount(100);  
2 system.debug('finalprice:' +finalprice);
```

Open Log Execute Execute Highlighted

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	/services/data/v57.0/tooling/executeAn...	2/26/2023, 10:54:02 AM	Success		3.71 KB

Filter Click here to filter the log list

Developer Console - Google Chrome  
cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage

File ▾ Edit ▾ Debug ▾ Test ▾ Workspace ▾ Help ▾ < >

DiscountClass.apxc Log executeAnonymous @2/26/2023, 10:54:02 AM

Execution Log

Timestamp	Event	Details
10:54:02:013	USER_DEBUG	[2]DEBUG:finalprice:90.0

This Frame Executable Debug Only Filter Click here to filter the log

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	/services/data/v57.0/tooling/executeAn...	2/26/2023, 10:54:02 AM	Success		3.71 KB

Filter Click here to filter the log list

# Exercise 9

Write a Class to demo the use of Interface in Apex

The screenshot shows the Salesforce Developer Console interface. The top bar displays the title "Developer Console - Google Chrome" and the URL "cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage". The menu bar includes File, Edit, Debug, Test, Workspace, Help, and navigation icons. The main area is titled "disc.apxc" and contains the following Apex code:

```
1 public class disc {
2     public interface InterfaceExample{
3         Double percentageDiscountToBeApplied();
4     }
5     public class PremiumCustomer implements InterfaceExample{
6         public Double percentageDiscountToBeApplied() {
7             return 0.30;
8         }
9     }
10    public class NormalCustomer implements InterfaceExample{
11        public Double percentageDiscountToBeApplied(){
12            return 0.10;
13        }
14    }
15 }
```

Below the code editor is a log viewer with tabs for Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. The Logs tab is selected, showing the following log entries:

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 8:25:05 PM	Success	Unread	999 bytes
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 8:25:05 PM	Insert failed. First exception on row 0; ...	Unread	6.43 KB
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 8:25:05 PM	Success	Unread	8.69 KB

At the bottom of the log viewer is a "Filter" input field with the placeholder "Click here to filter the log list".

# Exercise 10

## Demo on DML Insert Operation Using Database methods

The screenshot shows the Salesforce Developer Console in Google Chrome. The URL is [cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/\\_ui/common/apex/debug/ApexCSIPage](https://cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage). The page title is "Exer10.apxc". The code editor contains the following Apex code:

```
1 public class Exer10 {
2     public static void test()
3     {
4         customer__c cust = new customer__c();
5         cust.Name = 'Wipro';
6         cust.Customer_Type__c = 'Premium';
7         try{
8             insert cust;
9         }
10        catch(Exception e){
11    }
12
13        List<Billing__c> BillingList = new List<Billing__c>();
14        Billing__c Br = new Billing__c();
15        Br.Status__c = 'Paid';
16        Br.Amount_Paid__c = 5000000;
17        Br.Id = cust.CreatedById;
18        BillingList.add(Br);
19        Database.SaveResult[] srList = Database.insert(BillingList, false);
20        Integer i=0;
```

The logs table shows the following entries:

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/27/2023, 7:53:24 PM	Success	Unread	8.64 KB
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/27/2023, 7:53:23 PM	Success	Unread	997 bytes
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/27/2023, 7:53:23 PM	Insert failed. First exception on row 0; ...	Unread	6.4 KB
PALLAMKUPPAM ROHITH	Unknown	/services/data/v57.0/tooling/executeAn...	2/27/2023, 7:46:37 PM	Success		9.61 KB
PALLAMKUPPAM ROHITH	Unknown	/services/data/v57.0/tooling/executeAn...	2/27/2023, 7:44:47 PM	Insert failed. First exception on row 0; ...	Unread	3.24 KB
PALLAMKUPPAM ROHITH	Unknown	/services/data/v57.0/tooling/executeAn...	2/27/2023, 7:34:17 PM	Success		9.64 KB

The screenshot shows the Salesforce Developer Console in Google Chrome. The URL is [cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/\\_ui/common/apex/debug/ApexCSIPage](https://cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage). The page title is "Exer10.apxc". The code editor contains the same Apex code as the previous screenshot. A modal dialog titled "Enter Apex Code" is open, showing the code: "1 Exer10.test();". At the bottom of the dialog are three buttons: "Open Log", "Execute", and "Execute Highlighted". The logs table shows the following entries:

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/27/2023, 7:53:24 PM	Success	Unread	8.64 KB
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/27/2023, 7:53:23 PM	Success	Unread	997 bytes
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/27/2023, 7:53:23 PM	Insert failed. First exception on row 0; ...	Unread	6.4 KB
PALLAMKUPPAM ROHITH	Unknown	/services/data/v57.0/tooling/executeAn...	2/27/2023, 7:46:37 PM	Success		9.61 KB
PALLAMKUPPAM ROHITH	Unknown	/services/data/v57.0/tooling/executeAn...	2/27/2023, 7:44:47 PM	Insert failed. First exception on row 0; ...	Unread	3.24 KB
PALLAMKUPPAM ROHITH	Unknown	/services/data/v57.0/tooling/executeAn...	2/27/2023, 7:34:17 PM	Success		9.64 KB

Developer Console - Google Chrome  
cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage

File ▾ Edit ▾ Debug ▾ Test ▾ Workspace ▾ Help ▾ < >

Exercise10.apxc Log executeAnonymous @2/27/2023, 7:55:05 PM

**Execution Log**

Timestamp	Event	Details
19:55:05:097	USER_DEBUG	[23] DEBUG Successfully inserted bill. Billing ID = a012w000018FwAuAAK

## Exercise 11

Write and execute SOQL queries from Developer Console

Developer Console - Google Chrome  
cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage

File ▾ Edit ▾ Debug ▾ Test ▾ Workspace ▾ Help ▾ < >

Opportunity@7:43 PM

```
SELECT ID, Amount, StageName, AccountId, Account.Website, Account.Industry FROM opportunity WHERE Account.Industry = 'Energy' AND Account.AnnualRevenue > 5000
```

**Query Results - Total Rows: 10**

ID	Amount	StageName	AccountId	Account.Website	Account.Industry
0062w00000KBQZAA5	125000	Negotiation/Review	0012w00001LuOx6AAF	http://www.uos.com	Energy
0062w00000KBQgAAP	270000	Proposal/Price Quote	0012w00001LuOx6AAF	http://www.uos.com	Energy
0062w00000KBKyxAAP	120000	Closed Won	0012w00001LuOx6AAF	http://www.uos.com	Energy
0062w00000KBKmAAP	270000	Negotiation/Review	0012w00001LuOx6AAF	http://www.uos.com	Energy
0062w00000KBQpAAP	270000	Closed Won	0012w00001LuOx6AAF	http://www.uos.com	Energy
0062w00000KBKyxAAP	915000	Closed Won	0012w00001LuOx6AAF	http://www.uos.com	Energy
0062w00000KBKwxAAP	235000	Closed Won	0012w00001LuOx6AAF	http://www.uos.com	Energy
0062w00000KBQxAAP	440000	Closed Won	0012w00001LuOx6AAF	http://www.uos.com	Energy
0062w00000KBQzAAP	120000	Closed Won	0012w00001LuOx6AAF	http://www.uos.com	Energy
0062w00000KBKY1AAP	675000	Needs Analysis	0012w00001LuOx6AAF	http://www.uos.com	Energy

Query Grid: Save Rows | Insert Row | Delete Row | Refresh Grid | Access in Salesforce: Create New | Open Detail Page | Edit Page

Logs Tests Checkpoints **Query Editor** View State Progress Problems

```
SELECT ID, Amount, StageName, AccountId, Account.Website, Account.Industry
FROM opportunity WHERE Account.Industry = 'Energy' AND Account.AnnualRevenue > 5000
```

Any query errors will appear here...

History

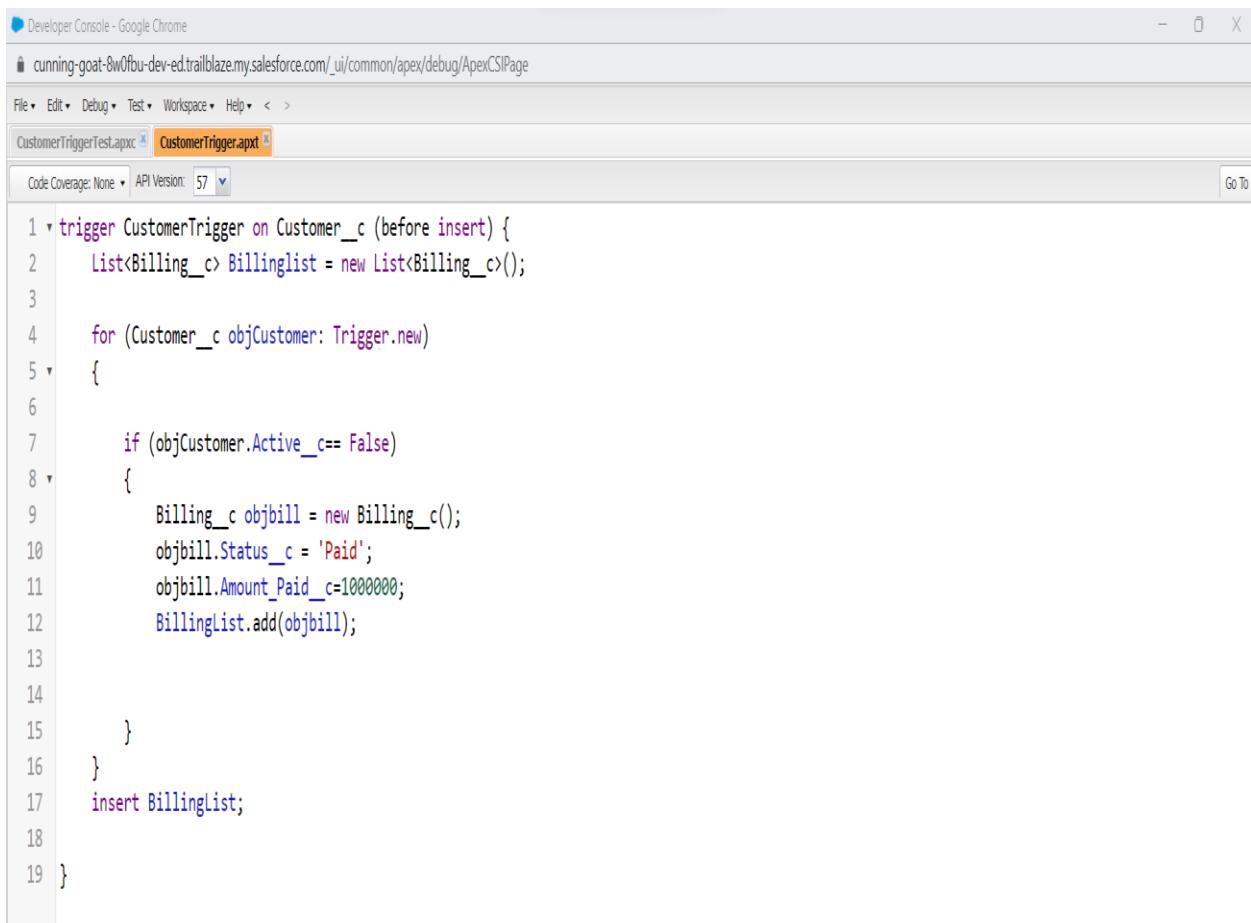
Executed

```
SELECT ID, Amount, StageName, AccountId, Account.Website, Account.In...
```

Execute Use Tooling API

## Exercise 12

Write an Apex Trigger, Name = CustomerTrigger.

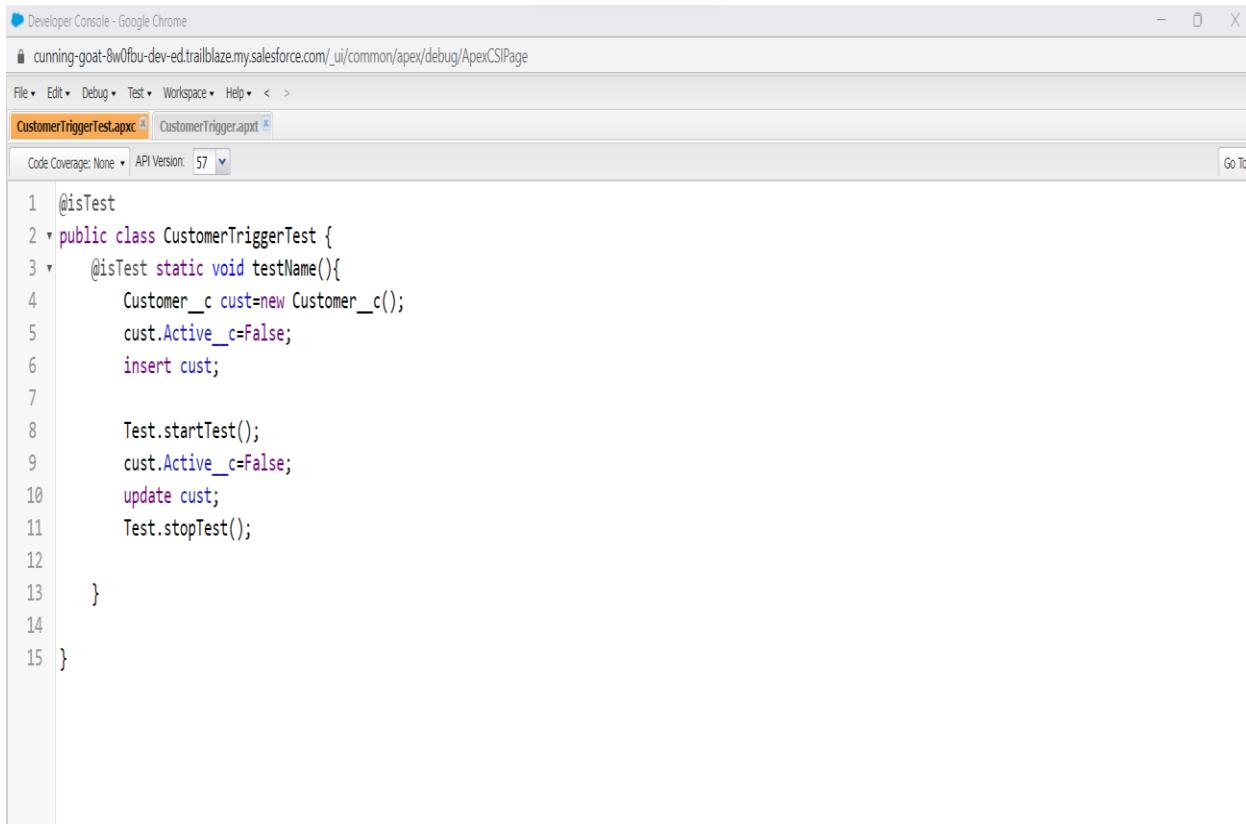


The screenshot shows the Salesforce Developer Console in Google Chrome. The URL is [cunning-goat-0w0fbu-dev-ed.trailblaze.my.salesforce.com/\\_ui/common/apex/debug/ApexCSIPage](https://cunning-goat-0w0fbu-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage). The tab bar shows "CustomerTriggerTest.apxc" and "CustomerTrigger.apxt" (which is currently selected). The API Version is set to 57. The code editor contains the following Apex trigger:

```
1 trigger CustomerTrigger on Customer_c (before insert) {
2     List<Billing_c> Billinglist = new List<Billing_c>();
3
4     for (Customer_c objCustomer: Trigger.new)
5     {
6
7         if (objCustomer.Active_c== False)
8         {
9             Billing_c objbill = new Billing_c();
10            objbill.Status_c = 'Paid';
11            objbill.Amount_Paid_c=1000000;
12            Billinglist.add(objbill);
13
14
15        }
16    }
17    insert Billinglist;
18
19 }
```

# Exercise 13

Write a Test Class for CustomerTrigger



The screenshot shows the Salesforce Developer Console in Google Chrome. The URL is [cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/\\_ui/common/apex/debug/ApexCSPage](https://cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSPage). The tab bar shows "CustomerTriggerTest.apxc" is active. The code editor contains the following Apex test class:

```
1 @isTest
2 public class CustomerTriggerTest {
3     @isTest static void testName(){
4         Customer__c cust=new Customer__c();
5         cust.Active__c=False;
6         insert cust;
7
8         Test.startTest();
9         cust.Active__c=False;
10        update cust;
11        Test.stopTest();
12    }
13 }
14
15 }
```

# Exercise 14

Write an Apex Trigger, Name = DisqualifyTestLeads

The screenshot shows the Salesforce Developer Console interface. The top navigation bar includes 'File', 'Edit', 'Debug', 'Test', 'Workspace', 'Help', and tabs for 'Logs', 'Tests', 'Checkpoints', 'Query Editor', 'View State', 'Progress', and 'Problems'. The main area displays the trigger code:

```
1 trigger DisqualifyTestLeads on Lead (before insert) {
2     List<lead> disqualify=new List<lead>();
3     for(Lead leads:trigger.new){
4         if(leads.FirstName.containsIgnoreCase('test') || String.isBlank(leads.FirstName)|| leads.LastName.containsIgnoreCase('test')|| String.isBlank(leads.LastName)){
5             System.debug('Disqualified: '+leads.FirstName+' '+leads.LastName);
6             disqualify.add(leads);
7         }
8     }
9     for(Lead le:disqualify){
10         le.Status='Disqualified';
11     }
12 }
```

The 'Logs' tab at the bottom shows two entries:

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 12:07:42 PM	Success	Unread	999 bytes
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 12:07:42 PM	Insert failed. First exception on row 0; ...	Unread	6.43 KB

A filter input field at the bottom of the logs table says 'Click here to filter the log list'.

# Exercise 15

## Write a Test Class for DisqualifyTestLeads

The screenshot shows the Salesforce Developer Console in Google Chrome. The URL is `cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. The tab bar shows `TestDisqualifyLeadsClass.apxc` is selected. The code editor contains the following Apex test class:

```
1  @isTest
2  public class TestDisqualifyLeadsClass {
3      @isTest static void test(){
4          Lead le=new Lead();
5          le.FirstName='Role';
6          le.LastName='Test';
7          le.Company='wipro';
8
9          Test.startTest();
10         insert le;
11         Test.stopTest();
12     }
13 }
```

The code editor has line numbers on the left and syntax highlighting. Below the code editor is a log table with the following data:

Logs	Tests	Checkpoints	Query Editor	View State	Progress	Problems
User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 12:09:41 PM	Insert failed. First exception on row 0; ...	Unread	6.41 KB
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 12:09:41 PM	Success	Unread	996 bytes
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 12:09:41 PM	Success	Unread	8.69 KB
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 12:07:42 PM	Success	Unread	999 bytes
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 12:07:42 PM	Insert failed. First exception on row 0; ...	Unread	6.43 KB

At the bottom of the log table is a filter input field with the placeholder "Click here to filter the log list".

# Exercise 16

Create a Visualforce page which displays Opportunity fields as output fields

The screenshot shows the Salesforce Developer Console in Google Chrome. The title bar says "Developer Console - Google Chrome" and the URL is "cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage". The tabs at the top are File, Edit, Debug, Test, Workspace, Help, < >. The active tab is "OppView.vfp". Below the tabs, there's a "Preview" section with "API Version: 57" dropdown. The code in the preview is:

```
1 <apex:page standardController="Opportunity">
2   <apex:pageBlock title="Opportunities">
3     <apex:pageBlockSection>
4       <apex:outputfield value="{! Opportunity.Account.Name}"/>
5       <apex:outputfield value="{! Opportunity.Amount}"/>
6       <apex:outputfield value="{! Opportunity.CloseDate}"/>
7       <apex:outputfield value="{! Opportunity.AccountId}"/>
8     </apex:pageBlockSection>
9   </apex:pageBlock>
10 </apex:page>
```

Below the code is a "Logs" tab. The logs table has columns: User, Application, Operation, Time, Status, Read, Size. There are three entries:

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 12:22:47 PM	Success	Unread	8.62 KB
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 12:22:46 PM	Success	Unread	997 bytes
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 12:22:46 PM	Insert failed. First exception on row 0: ...	Unread	6.41 KB

At the bottom, there's a "Filter" input field with the placeholder "Click here to filter the log list".

The screenshot shows the Salesforce Developer Console in Google Chrome. The title bar says "Developer Console - Google Chrome" and the URL is "cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage". The tabs at the top are File, Edit, Debug, Test, Workspace, Help, < >. The active tab is "OppView.vfp". Below the tabs, there's a "Preview" section with "API Version: 57" dropdown. The code in the preview is identical to the one in the previous screenshot:

```
1 <apex:page standardController="Opportunity">
2   <apex:pageBlock title="Opportunities">
3     <apex:pageBlockSection>
4       <apex:outputfield value="{! Opportunity.Account.Name}"/>
5       <apex:outputfield value="{! Opportunity.Amount}"/>
6       <apex:outputfield value="{! Opportunity.CloseDate}"/>
7       <apex:outputfield value="{! Opportunity.AccountId}"/>
8     </apex:pageBlockSection>
9   </apex:pageBlock>
10 </apex:page>
```

Below the code is a "Logs" tab. The logs table has columns: User, Application, Operation, Time, Status, Read, Size. There are three entries:

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 12:22:47 PM	Success	Unread	8.62 KB
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 12:22:46 PM	Success	Unread	997 bytes
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 12:22:46 PM	Insert failed. First exception on row 0: ...	Unread	6.41 KB

At the bottom, there's a "Filter" input field with the placeholder "Click here to filter the log list".

A screenshot of a web browser window showing a Visualforce page titled "Opportunities". The page has a header with columns: "Account Name", "Close Date", "Amount", and "Account Name". Below the header, there is a table row with data.

## Exercise 17

Create a Visualforce page which shows a list of Accounts linked to their record pages

The screenshot shows the Salesforce Developer Console interface. At the top, it displays the URL: `cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. The main area shows the Visualforce page code for "Account.vfp". The code uses `<apex:page standardController="Account" recordSetVar="Accounts">` and `<apex:repeat var="a" value="{!Accounts}" rendered="true" id="account_list">` to iterate over accounts. The developer console also shows the "Logs" tab, which lists three log entries from the user "PALLAMKUPPAM ROHITH".

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 5:43:24 PM	Success	Unread	8.63 KB
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 5:43:16 PM	Success	Unread	997 bytes
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 5:43:15 PM	Insert failed. First exception on row 0; ...	Unread	6.42 KB

A screenshot of a web browser window displaying a list of accounts from a Salesforce org. The page title is "cunning-goat-8w0fbu-dev-ed.ctrailblaze.vf.force.com/apex/Account". The list includes companies like Burlington Textiles Corp of America, Dickenson plc, Edge Communications, EDS Logistics and Transport, GenPro, Grand Hotels & Resorts Ltd, Pyramid Construction Inc., Sample Account for Entitlements, SMC, United Oil & Gas Corp., United Oil & Gas Singapore, United Oil & Gas UK, and University of Arizona.

## Exercise 18

Create a Visualforce page that uses a custom controller to display a list of cases with the status of 'New'. The page must be named NewCaseList

A screenshot of the Salesforce Developer Console in Google Chrome. The URL is "cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage". The tab bar shows "NewCaseListController.vfp" is selected. The code editor contains the following Apex code:

```
1 <apex:page Controller="NewCaseListController">
2   <apex:repeat value="{!newCases}" var="case" id="theRepeat">
3     <li><apex:outputLink value="/{!case.id}"/>{!case.ID}</apex:outputLink></li>
4     <li><apex:outputLink value="/{!case.id}"/>{!case.CaseNumber}</apex:outputLink></li>
5   </apex:repeat>
6 </apex:page>
```

The developer console also shows a logs table with three entries:

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 6:07:58 PM	Success	Unread	997 bytes
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 6:07:57 PM	Insert failed. First exception on row 0; ...	Unread	6.41 KB
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 6:07:54 PM	Success	Unread	8.65 KB

Developer Console - Google Chrome  
 cunning-goat-8w0fbu-dev-ed.trailblaze.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage

NewCaseListController.vfp    NewCaseListController.apxc

File ▾ Edit ▾ Debug ▾ Test ▾ Workspace ▾ Help ▾ < ▾ >

Code Coverage: None ▾ API Version: 57 ▾ Go To

```

1 | public with sharing class NewCaseListController {
2 |     public List<Case> getNewCases(){
3 |         List<Case> results = Database.query(
4 |             'SELECT ID, CaseNumber, Origin, Status, Account.Name ' +
5 |             'FROM Case ' +
6 |             'LIMIT 10'
7 |         );
8 |         return results;
9 |     }
10 |

```

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 6:07:58 PM	Success	Unread	997 bytes
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 6:07:57 PM	Insert failed. First exception on row 0: ...	Unread	6.41 KB
PALLAMKUPPAM ROHITH	Unknown	ApexTestHandler	2/26/2023, 6:07:54 PM	Success	Unread	8.65 KB

Filter Click here to filter the log list

Sign out | Hands-On Orgs | Lightning Experience | Salesforce | Home | Salesforce | https://cunning-goat-8w0fbu-dev-ed-c.trailblaze.vf.force.com/apex/NewCaseListController

- 5002w00000g5Q7SAAU
- 00001000
- 5002w00000g5Q7TAU
- 00001001
- 5002w00000g5Q7UAU
- 00001002
- 5002w00000g5Q7VAU
- 00001003
- 5002w00000g5Q7WAAU
- 00001004
- 5002w00000g5Q7XAAU
- 00001005
- 5002w00000g5Q7YAAU
- 00001006
- 5002w00000g5Q7ZAAU
- 00001007
- 5002w00000g5Q7aAAE
- 00001008
- 5002w00000g5Q7bAAE
- 00001009

## References

1. [Manage sales - Salesforce IN](#)
2. [Salesforce - ADX201 Administrative Essentials for New Admins in Lightning Experience \(SFADX201\) \(qa.com\)](#)
3. [Understand the Salesforce Architecture Unit | Salesforce Trailhead](#)