



Capstone Project Report
On
“Travel approval app”

Github link: <https://github.com/VIJAYA123-BIT/Salesforce-Capstone>

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Date: 28/02/2023

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Abstract

Every travel organization requires a Travel Approval Application. This department deals with the approval of travel requests. It also allows for prime levels of control and oversight over travel bookings, policy and budget. The approval process is usually often lengthy and requires a lot of paperwork. It requires so much of time and work efforts to complete it. To eradicate human errors and achieve perfect data and procedures, the use of software is considered a smart choice.

Therefore, with the help of Customer Relation Management (CRM) software services provided by Salesforce, we are making a travel approval application. It starts with building of data model where the objects and fields comes into picture follows by customizing the user interface where we Use list views and page layouts to streamline an app user's experience. Every application generally needed a business logic so in this it is achieved by validation rules , formula fields and approval process. Finally, to analyze travel approvals we add reports and dashboards. This application will help them in keeping track of the complete travel approval process.

Introduction

In today's fast-paced business environment, sales teams often need to travel frequently to meet with clients, attend conferences, and conduct business. However, managing travel requests and approvals can be a time-consuming and error-prone process, particularly when done manually. To address this challenge, many organizations are turning to technology solutions such as the Travel Approval App for Salesforce.



This app is a powerful tool that allows sales teams to easily submit and manage travel requests directly within the Salesforce platform. By automating the travel approval process, the app saves time and reduces the risk of errors and delays. It also provides sales managers with real-time visibility into their teams' travel plans, enabling them to make informed decisions about resource allocation and budgeting.



In this report, we will provide an overview of the Travel Approval App for Salesforce, including its features, benefits, and potential use cases. We will also explore how this app can help organizations improve their travel management processes, increase efficiency, and reduce costs. Finally, we will discuss best practices for implementing and using the app effectively.

Flow of the Project

The flow of the Travel Approval App for Salesforce typically involves several steps, which are as follows:

1. Travel Request Submission: Sales representatives submit travel requests using the Travel Approval App within the Salesforce platform. The request includes details such as travel dates, destinations, budgets, and purpose.

Automated Routing of Requests: The app automatically routes the travel request to the appropriate approvers based on pre-defined rules and workflows. This ensures that requests are reviewed by the right people, in the right order.

1. Review and Approval: Approvers receive notifications when a travel request requires their approval. They can review the request details and approve or reject

it within the app.

2. Notification and Feedback: Sales representatives are notified of the approval or rejection of their travel request. If rejected, the app may allow the representative to revise and resubmit the request.

3. Real-Time Reporting: The app provides real-time visibility into travel requests and approvals, allowing sales managers to monitor travel spend and make informed decisions about their teams' travel plans.

Overall, the Travel Approval App for Salesforce automates and streamlines the travel request and approval process, providing a seamless experience for sales representatives and managers while ensuring compliance and cost-effectiveness.

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	Windows 8.1 64-bit, Windows 8 64-bit, Windows 7 Service Pack 1 64-bit, Windows Vista Service Pack 2 64-bit
CPU	Core 2 Quad Q6600 at 2.4 GHz or AMD Phenom 9850 at 2.5 GHz
Memory	4 GB RAM
Free space	65 GB of free space
Graphics hardware	DirectX 10-compatible GPU: GeForce 9800GT 1GB or ATI Radeon HD 4870 1GB
Sound hardware	DirectX 10 compatible sound card

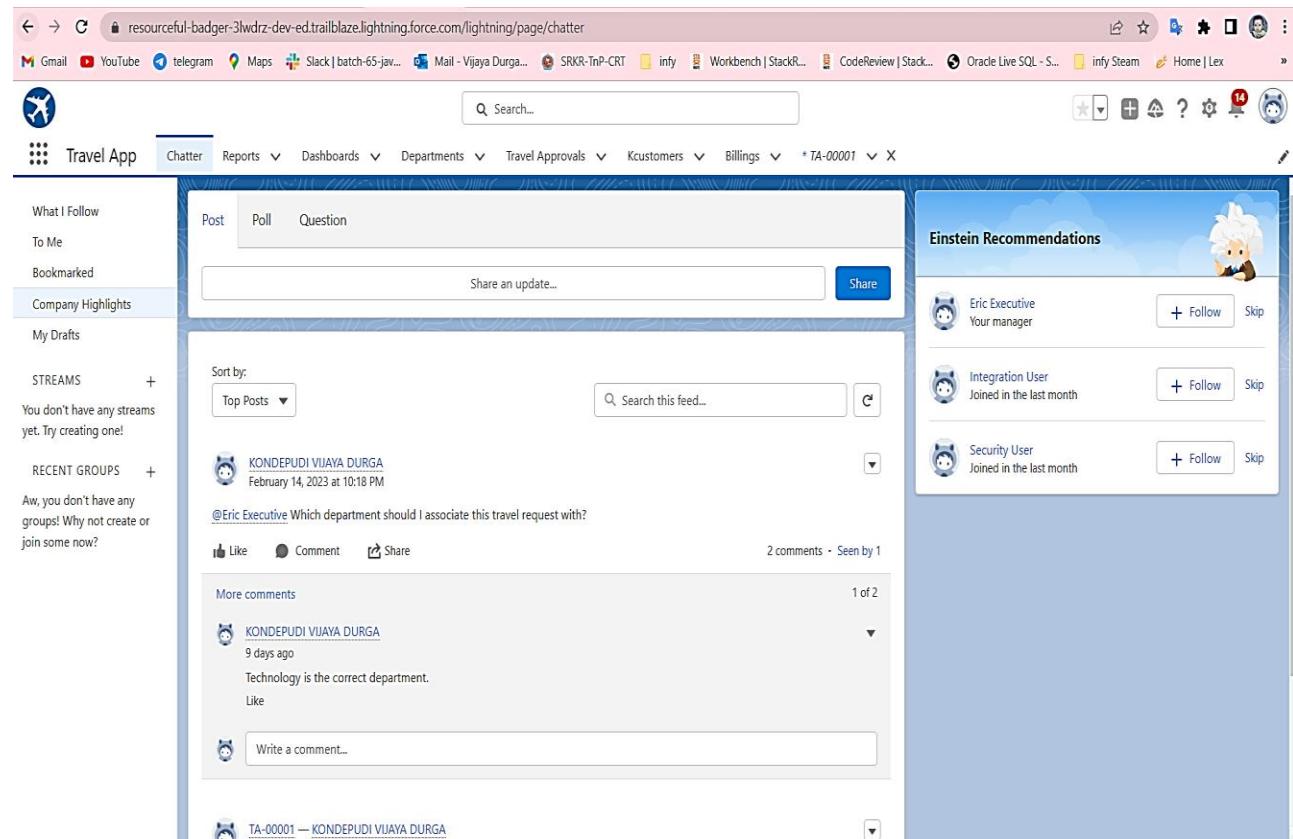
Module 1

Screen Shots

Exercise 1

Step 1:

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



Step 2:

Create a Department Custom Object

The screenshot shows the Salesforce Setup interface under the Object Manager section. A sidebar on the left lists various configuration options like Fields & Relationships, Page Layouts, Lightning Record Pages, etc. The main 'Details' tab is selected for the 'Department' object. The API Name is set to 'Department__c'. Other settings include Singular Label ('Department'), Plural Label ('Departments'), and Deployment Status ('Deployed'). The 'Edit' and 'Delete' buttons are visible at the top right.

Created new custom object tabs

The screenshot shows the Salesforce Setup interface under the Tabs section. The 'Custom Object Tab' for 'Departments' is displayed. The tab label is 'Departments', the object is 'Department', and the tab style is 'Books'. It was created by 'KONDEPUDI VIJAYA DURGA' on 2/14/2023, 7:32 PM. The 'Edit' and 'Delete' buttons are visible at the top right.

Step 3:

Created all the required Custom Fields

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	Lookup(User)		
Department Code	Department_Code__c	Text(10) (Unique Case Sensitive)	<input type="button" value="▼"/>	<input type="button" value="▼"/>
Department Name	Name	Text(80)	<input type="button" value="▼"/>	<input type="button" value="▼"/>
Department Type	Department_Type__c	Picklist	Location	<input type="button" value="▼"/>
Last Modified By	LastModifiedBy	Lookup(User)		
Location	Location__c	Picklist		<input type="button" value="▼"/>
Owner	OwnerId	Lookup(User,Group)	<input type="button" value="▼"/>	

Create Field Dependency

Controlling Field	Dependent Field
Location	Department Type

Instructions

- Double click on a cell to toggle its visibility for the Controlling Field value shown in the column heading.
- To change multiple cells at once, select multiple cells and then click the **Include Values** or **Exclude Values** button to change the visibility of all selected cells at once.
- Use SHIFT + click to select a range of adjacent cells. Use CTRL + click to select multiple cells that are not adjacent.
- Use the **Preview** button to test the results.

Legend

- Excluded Value
- Included Value

Click button to include or exclude selected values from the dependent picklist:

Showing Columns: 1 - 2 (of 2) < Previous Next > View All Go to		
Location:	Kolkata	Delhi
Department Type:	Banking	Banking
	Finance	Finance
	Education	Education
	Energy	Energy
	IT	IT

Showing Columns: 1 - 2 (of 2) < Previous | Next > View All

STEP 4:

Created the required Travel Approval Object

Travel Approval

Details

Description

API Name: Travel_Approval__c

Custom: ✓

Singular Label: Travel Approval

Plural Label: Travel Approvals

Enable Reports: ✓

Track Activities: ✓

Track Field History: ✓

Deployment Status: Deployed

Help Settings: Standard salesforce.com Help Window

Custom Fields in Travel Approval Object

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING
Created By	CreatedById	Lookup(User)	
Department	Department__c	Lookup(Department)	
Destination State	Destination_State__c	Text(2)	
Last Modified By	LastModifiedById	Lookup(User)	
Out-of-State	Out_of_State__c	Checkbox	
Owner	OwnerId	Lookup(User,Group)	
Purpose of Trip	Purpose_of_Trip__c	Text Area(255)	
Status	Status__c	Picklist	
Status Indicator	Status_Indicator__c	Formula (Text)	

After testing the App

The screenshot shows the 'Travel Approval' detail page for record TA-00001. The 'Details' tab is selected, displaying information such as Total Expenses (₹1,320.00), Status (Approved), and Purpose of Trip (Attend Dreamforce). The 'Owner' is listed as KONDEPUDI VIJAYA DURGA, and the 'Department' is Technology. The 'Activity' sidebar is visible on the right, showing no upcoming or overdue activities.

Step 5: Imported Department CSV file using Data Import Wizard

The screenshot shows the 'Departments' list page. It displays 17 items, sorted by Department Name, with the first 15 items listed below:

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

Exercise 2

Step -1

Created Travel Approval record

The screenshot shows a Salesforce Lightning page for a Travel Approval record. The URL is resourceful-badger-3lwdrz-dev-ed.lightning.force.com/lightning/r/Travel_Approval__c/a012w000016rb0hAAA/view. The page title is "Travel Approval TA-00001". The "Details" tab is selected. The record contains the following fields:

- Travel Approval #: TA-00001
- Status: Approved
- Total Expenses: ₹1,320.00
- Status Indicator: Accepted
- Trip Info**:
 - Purpose of Trip: Attend Dreamforce
 - Out-of-State: checked
 - Trip Start Date: 2/14/2023
 - Destination State: CA
 - Trip End Date: 2/17/2023
- Created By: KONDEPUDI VIJAYA DURGA, 2/14/2023, 8:01 PM
- Last Modified By: KONDEPUDI VIJAYA DURGA, 2/20/2023, 7:50 PM

The right sidebar shows the user profile "KONDEPUDI VIJAYA DURGA" and activity feed settings.

Step-2

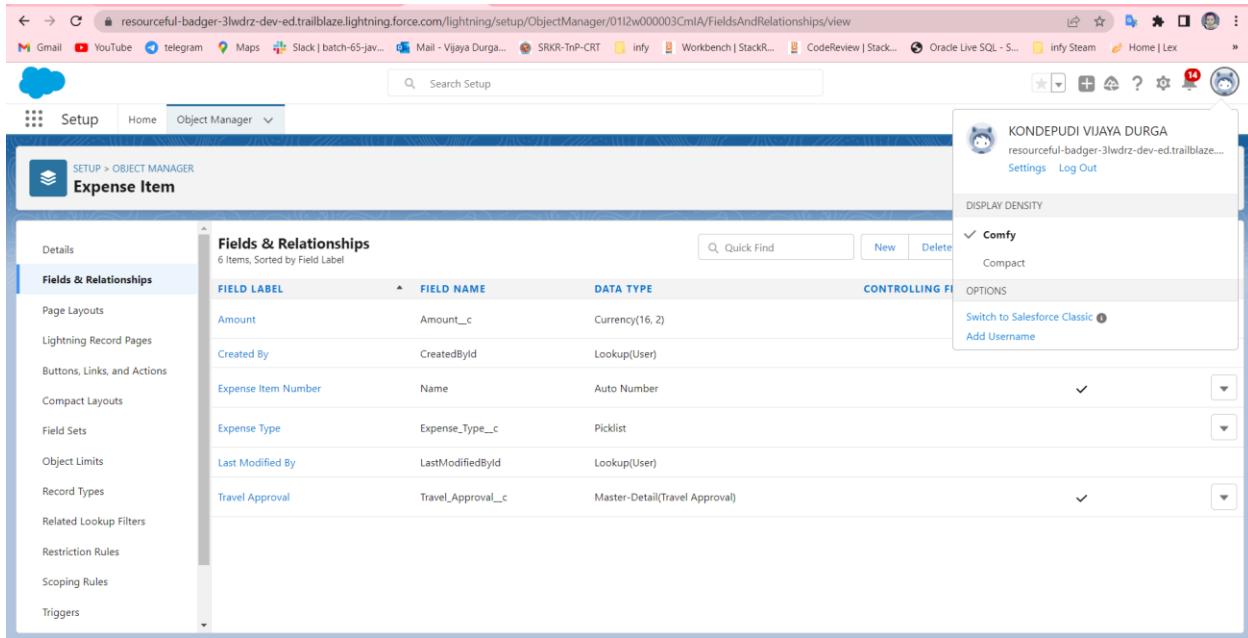
Created Expense Item Custom Object

The screenshot shows the Salesforce Setup Object Manager. The URL is resourceful-badger-3lwdrz-dev-ed.lightning.force.com/lightning/setup/ObjectManager/012w000003CmIA/Details/view. The object being created is "Expense Item". The "Details" tab is selected. The configuration includes:

- Description: API Name: Expense_Item__c
- Custom: checked
- Singular Label: Expense Item
- Plural Label: Expense Items
- Enable Reports: checked
- Track Activities: checked
- Track Field History: checked
- Deployment Status: Deployed
- Help Settings: Standard salesforce.com Help Window

The left sidebar lists various setup categories like Fields & Relationships, Page Layouts, etc. The right sidebar shows the user profile "KONDEPUDI VIJAYA DURGA" and setup density settings.

Step 3 Created Custom Fields

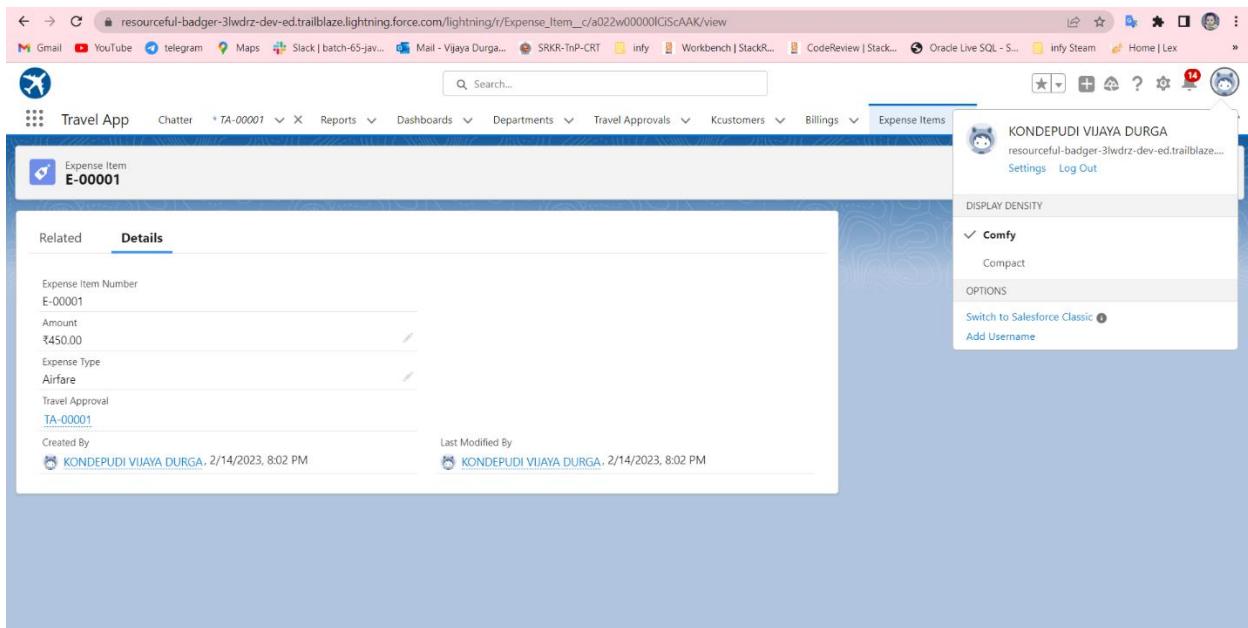


The screenshot shows the Salesforce Object Manager interface for the 'Expense Item' object. On the left, a sidebar lists various setup options like Details, Fields & Relationships, Page Layouts, and Lightning Record Pages. The main area displays a table titled 'Fields & Relationships' with six items. The columns are FIELD LABEL, FIELD NAME, DATA TYPE, and CONTROLLING FIELD. The fields listed are:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD
Amount	Amount__c	Currency(16, 2)	
Created By	CreatedById	Lookup(User)	
Expense Item Number	Name	Auto Number	
Expense Type	Expense_Type__c	Picklist	
Last Modified By	LastModifiedById	Lookup(User)	
Travel Approval	Travel_Approval__c	Master-Detail(Travel Approval)	

A context menu is open on the right side of the page, showing options like 'DISPLAY DENSITY' (set to 'Comfy'), 'OPTIONS' (with 'Switch to Salesforce Classic' and 'Add Username' buttons), and user information for 'KONDEPUDI VIJAYA DURGA'.

Step 4 Created Records



The screenshot shows the detail view for an Expense Item record with ID E-00001. The top navigation bar includes links for Gmail, YouTube, telegram, Maps, Slack, Mail - Vijaya Durga..., SRKR-TnP-CRT, infy, Workbench | StackR..., CodeReview | Stack..., Oracle Live SQL - S..., infy Steam, Home | Lex, and a search bar. The page title is 'Expense Item E-00001'. The main content area shows the following details:

Related	Details
Expense Item Number	E-00001
Amount	\$450.00
Expense Type	Airfare
Travel Approval	TA-00001
Created By	KONDEPUDI VIJAYA DURGA, 2/14/2023, 8:02 PM
Last Modified By	KONDEPUDI VIJAYA DURGA, 2/14/2023, 8:02 PM

A context menu is open on the right side of the page, showing options like 'DISPLAY DENSITY' (set to 'Comfy'), 'OPTIONS' (with 'Switch to Salesforce Classic' and 'Add Username' buttons), and user information for 'KONDEPUDI VIJAYA DURGA'.

The screenshot shows a Salesforce Lightning interface for a Travel App. The main page displays an expense item with the number E-00002. The details include:

- Expense Item Number: E-00002
- Amount: \$870.00
- Expense Type: Hotel
- Travel Approval: TA-00001
- Created By: KONDEPUDI VIJAYA DURGA
- Last Modified By: KONDEPUDI VIJAYA DURGA

A sidebar on the right shows the user profile of KONDEPUDI VIJAYA DURGA and various display density and options settings.

Created User Eric

The screenshot shows the Salesforce Setup interface under the Users section. A new user record is being created with the following details:

Name	Eric Executive
Alias	eexec
Email	vijayadurga27@gmail.com
Username	eric.durga@wipro.com
Nickname	eric exec
Title	
Company	
Department	
Division	
Address	
Time Zone	(GMT+05:30) India Standard Time (Asia/Kolkata)
Locale	English (India)
Language	English
Delegated Approver	Manager
Receive Approval Request Emails	Only if I am an approver
Federation ID	

The user is assigned the CEO role and System Administrator profile. The sidebar on the left shows the navigation menu for Setup, and the top navigation bar includes links for Gmail, YouTube, telegram, Maps, Slack, Mail, SRKR-TnP-CRT, infy, Workbench, Oracle Live SQL, Infy Steam, and Home | Lex.

Step 6

Added Eric Executive as manager to System Administrator

The screenshot shows the Salesforce Setup interface with the 'Users' tab selected. On the left, a sidebar lists various setup categories like 'Permission Set Groups', 'Profiles', and 'User Management Settings'. The main area displays the 'User Detail' page for 'Eric Executive'. The user's details include Name: Eric Executive, Alias: exec, Email: vijayadurga278@gmail.com, Username: eric.durga@wipro.com, Nickname: eric.exec, Title: Manager, Company: Department, Division, Address, Time Zone: (GMT+05:30) India Standard Time (Asia/Kolkata), Locale: English (India), Language: English, Delegated Approver: Manager, and Receive Approval Request Emails: Only if I am an approver. To the right, a sidebar shows the user's profile picture, name (KONDEPUDI VIJAYA DURGA), and various user settings like Role (CEO), User License (Salesforce), Profile (System Administrator), and Active status (checked). A 'DISPLAY DENSITY' section is set to 'Comfy'.

Step 7

Customized the Travel Approval Default Search

The screenshot shows the Salesforce Setup interface with the 'Search Layouts' tab selected under the 'Einstein' category. The main area displays the 'Edit Search Layout' page for 'Travel Approval Search Results for System Administrator'. It shows two columns: 'Available Fields' (Record ID, Out-of-State, Status Indicator, Total Expenses, Owner Alias, Owner First Name, Owner Last Name, Created By Alias, Created By, Created Date, Last Modified By Alias) and 'Selected Fields' (Travel Approval #, Purpose of Trip, Department, Status, Destination State, Trip Start Date, Trip End Date). The 'Selected Fields' column has an 'Up' and 'Down' arrow icon for reordering. At the bottom, there are 'Save' and 'Cancel' buttons. A sidebar on the left shows a search bar and lists 'Einstein Search', 'Objects and Fields', and 'Object Manager'. A message at the bottom left says 'Didn't find what you're looking for? Try using Global Search.' The right sidebar shows the user's profile and various setup options like 'DISPLAY DENSITY' (set to 'Comfy'), 'OPTIONS', and 'Switch to Salesforce Classic'.

Step 8

Selected all the fields to display

Select Fields to Display

Available Fields	Visible Fields
Created By Alias	Travel Approval #
Created Date	Department
Destination State	Created By
Last Activity Date	Status
Last Modified By	Trip Start Date
Last Modified By Alias	Trip End Date

Step -9

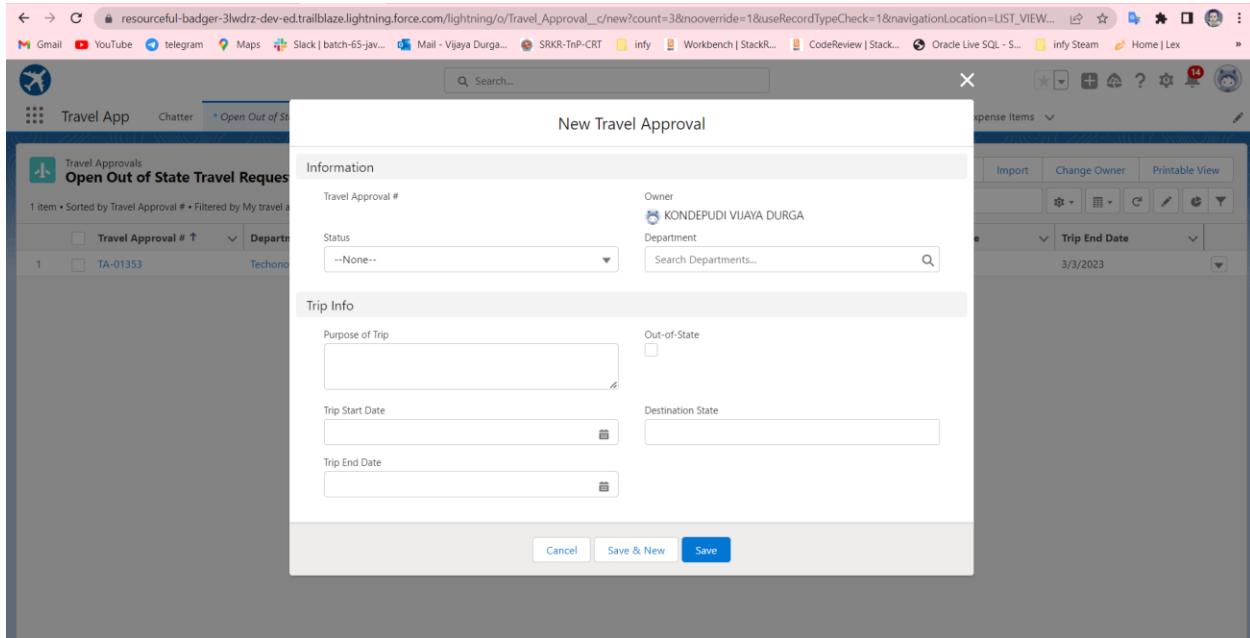
Created Travel approval custom List view Open Out of State Travel Requests

Open Out of State Travel Requests

Travel Approval #	Department	Created By	Status	Destination State	Trip Start
TA-01353	Technology	KONDEPUDI VIJAYA DURGA	New	go	2/25/2023

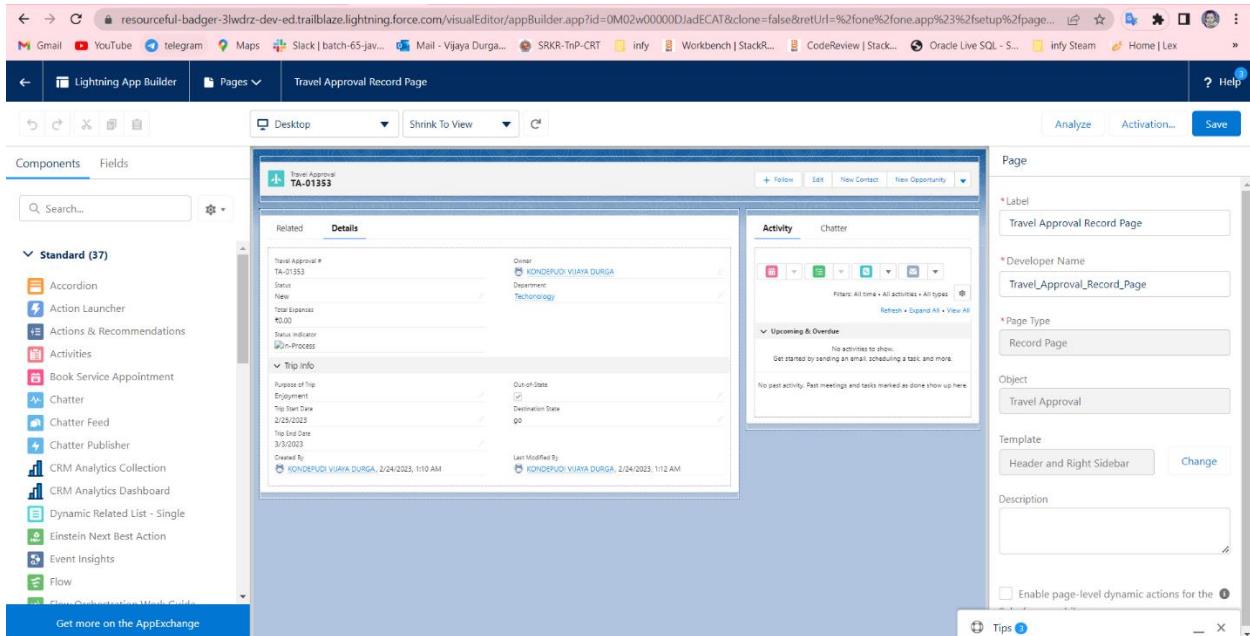
Step 10

Selected fields to display in the Travel approval Open Out of State Travel Requests



Step 11

Customized Travel Approval Page Layout



The screenshot shows the Salesforce Setup interface with the URL resourceful-badger-3lwdrz-dev-ed.trailblaze.lightning.force.com/lightning/setup/ObjectManager/01l2w000003Cmfp/PageLayouts/view. The page title is "Travel Approval". The left sidebar is expanded, showing "Page Layouts" selected under "Object Manager". The main content area displays a table titled "Page Layouts" with one item: "Travel Approval Layout" created by "KONDEPUDI VIJAYA DURGA" on 2/14/2023, 7:37 PM. The status is "MODIFIED BY KONDEPUDI VIJAYA DURGA, 2/14/2023, 7:37 PM". A context menu is open on the right, showing "DISPLAY DENSITY" set to "Comfy" (selected), "Compact", and "OPTIONS". Other options include "Switch to Salesforce Classic" and "Add Username".

The screenshot shows the Salesforce Setup interface with the URL resourceful-badger-3lwdrz-dev-ed.trailblaze.lightning.force.com/lightning/setup/ObjectManager/01l2w000003Cmfp/PageLayouts/00h2w000000IryAAAT/view. The page title is "Travel Approval". The left sidebar is expanded, showing "Page Layouts" selected under "Object Manager". The main content area shows the "Travel Approval Layout" configuration. The "Fields" section contains fields: Buttons, Quick Actions, Mobile & Lightning Actions, Expanded Lookups, Related Lists, Department, Destination State, Last Modified By, Purpose of Trip, Status, Trip Approval #, Trip End Date, Out-of-State, Status Indicator, Trip Start Date, and Owner. A context menu is open on the right, showing "DISPLAY DENSITY" set to "Comfy" (selected), "Compact", and "OPTIONS". Other options include "Switch to Salesforce Classic" and "Add Username". Below the layout editor, there are sections for "Highlights Panel", "Quick Actions in the Salesforce Classic Publisher", and "Salesforce Mobile and Lightning Experience Actions".

Step 12

Customized the Expense Item Related list Under Travel Approval page Layout

The screenshot shows the Salesforce Lightning interface for a Travel Approval page. The main content area displays a related list of Expense Items under the 'Travel Approval' section. The list includes:

Expense Item Number	Expense Type	Amount
E-00001	Airfare	₹450.00
E-00002	Hotel	₹870.00
E-00003	Airfare	₹450.00

The right sidebar shows the user profile of KONDEPUDI VIJAYA DURGA and the 'Activity' tab, which is currently selected. The activity section is set to 'Comfy' display density and shows no upcoming or overdue activities.

Step 13

Enabled Feed Tracking

The screenshot shows the Salesforce Setup interface for Feed Tracking. The 'Fields in travel approvals' section is open, showing checkboxes for various fields such as Department, Out-of-State, Purpose of Trip, etc. The 'Enable Feed Tracking' checkbox is checked. The sidebar shows the 'Feed Tracking' section under Feature Settings.

resourceful-badger-3lwdrz-dev-ed.trailblaze.lightning.force.com/lightning/o/Travel_Approval_c/list?filterName=00B2w00000YWPPh/EAX

Gmail YouTube telegram Maps Slack | batch-65-jav... Mail - Vijaya Durga... SRKR-TnP-CRT infy Workbench | StackR... CodeReview | Stack... Oracle Live SQL - S... Infy Steam Home | Lex

Travel App Chatter * Open Out of State Travel R... Reports Dashboards Departments Travel Approvals Kcustomers Billings

Travel Approvals Open Out of State Travel Requests

1 item • Sorted by Travel Approval # • Filtered by My travel approvals - Status, Out-of-State • Updated a few seconds ago

	Travel Approval #	Department	Created By	Status	Destination State	Trip Start
1	TA-01353	Technology	KONDEPUDI VIJAYA DURGA	New	go	2/25/2023

Search this list...

DISPLAY DENSITY
✓ Comfy Compact

OPTIONS
Switch to Salesforce Classic Add Username

KONDEPUDI VIJAYA DURGA
resourceful-badger-3lwdrz-dev-ed.trailblaze...
Settings Log Out

MODULE 2

Exercise 1

Step 1

Create Trip end date after start date Validation Rule

The screenshot shows the Salesforce Setup interface for creating a Validation Rule. The left sidebar lists various object settings like Details, Fields & Relationships, Page Layouts, etc. The main area is titled "Travel Approval Validation Rule". The "Validation Rule Edit" screen has the following details:

- Rule Name:** Trip_end_date_after_start_date
- Active:** Checked
- Description:** (empty)
- Error Condition Formula:** Trip_End_Date__c < Trip_Start_Date__c
- Functions:** A dropdown menu showing options like ABS, ACOS, ADDMONTHS, AND, ASCII, ASIN, etc.

The status bar at the bottom right indicates "Required Information". The top right corner shows the user's profile (KONDEPUDI VIJAYA DURGA) and various setup options.

The screenshot shows the "Validation Rule Detail" page for the previously created rule. The details are as follows:

Field	Value
Rule Name	Trip_end_date_after_start_date
Error Condition Formula	Trip_End_Date__c < Trip_Start_Date__c
Error Message	Trip end date must be greater than or equal to start date
Description	(empty)
Created By	KONDEPUDI VIJAYA DURGA 2/14/2023, 10:44 PM
Modified By	KONDEPUDI VIJAYA DURGA 2/23/2023, 9:26 PM

The top right corner shows the user's profile (KONDEPUDI VIJAYA DURGA) and various setup options.

Step 2

Created a Roll Up Summary Field Total Expenses

The screenshot shows the Salesforce Setup interface under the Object Manager for the 'Travel Approval' object. A custom field named 'Total Expenses' is being created. The 'Field Information' section shows the field label 'Total Expenses', field name 'Total_Expenses', API name 'Total_Expenses_c', and data type 'Roll-Up Summary'. The 'Summarized Object' is set to 'Expense Item' and the 'Field to Aggregate' is 'Expense Item: Amount'. The 'Roll-Up Summary Options' section indicates a 'Summary Type' of 'SUM'. The right sidebar displays user information and display density settings.

Step 3

Created a formula field Status Images

The screenshot shows the Salesforce Setup interface under the Static Resources section. A new static resource named 'StatusImages' is being created. The 'Static Resource Edit' screen shows the 'Name' field set to 'StatusImages', the 'File' field with a placeholder 'Choose File | No file chosen', and the 'Cache Control' dropdown set to 'Public'. The right sidebar displays user information and display density settings.

The screenshot shows the Salesforce Setup interface. On the left, the navigation pane is open with the 'custom' search term selected. Under 'Service', 'Customer Contact Requests' and 'Customer Service Incident Management' are listed. Under 'Custom Code', 'Apex Classes', 'Apex Settings', 'Apex Test Execution', 'Apex Test History', 'Apex Triggers', 'Canvas App Previewer', 'Custom Metadata Types', and 'Custom Permissions' are listed. The main content area displays the 'Static Resources' page for the 'StatusImages' resource. The resource detail shows the following information:

Name	Value
Namespace Prefix	
Description	
MIME Type	application/x-zip-compressed
Cache Control	Public
Size	57,028 bytes
Created By: KONDEPUDI VIJAYA DURGA 2/14/2023, 10:56 PM	
Last Modified By	KONDEPUDI VIJAYA DURGA 2/23/2023, 9:36 PM

The top right corner of the page header shows the user's profile: KONDEPUDI VIJAYA DURGA, resourceful-badger-3lwdrz-dev-ed.trailblaze...., with options for 'Settings' and 'Log Out'. A 'DISPLAY DENSITY' dropdown is set to 'Comfy'.

Step 4 Created a formula field Status Indicator

The screenshot shows the Salesforce Object Manager. The left sidebar lists various object types: 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, and Restriction Rules. The main content area shows the 'Travel Approval' object details. Under the 'Fields & Relationships' tab, a new custom field named 'Status Indicator' is being defined. The 'Custom Field Definition Detail' section includes the following information:

Field Information	Value
Field Label	Status Indicator
Field Name	Status_Indicator
API Name	Status_Indicator__c
Description	
Help Text	
Data Owner	
Field Usage	
Data Sensitivity Level	
Compliance Categorization	

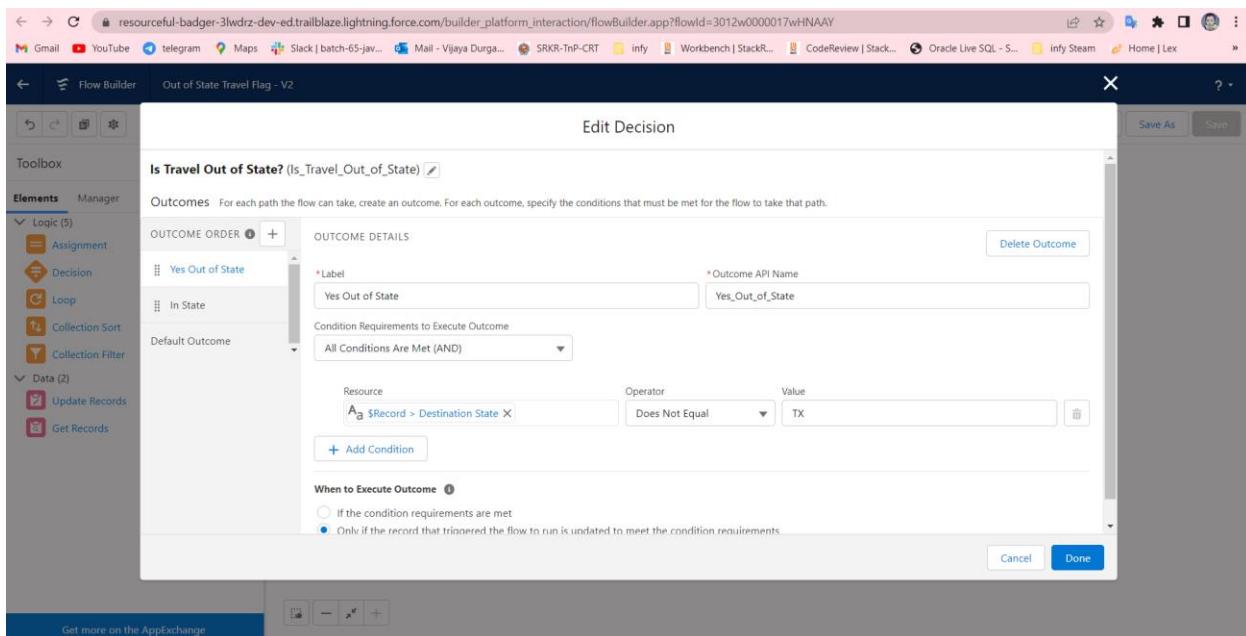
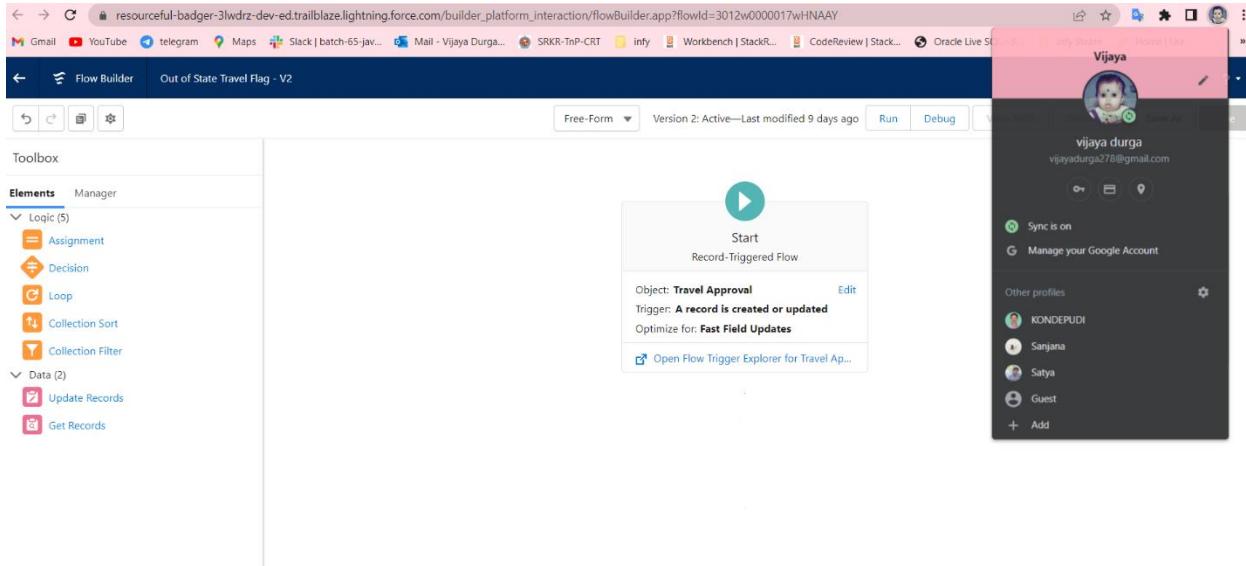
The 'Formula Options' section contains the formula:

```
IF( ISPICKVAL( Status__c, "Approved" ), IMAGE("/resource/StatusImages/thumbs-up.png", "Accepted", 20, 20),  
IF( ISPICKVAL( Status__c, "Rejected" ), IMAGE("/resource/StatusImages/thumbs-down.png", "Rejected", 20, 20),  
IMAGE("/resource/StatusImages/draft.png", "In-Process", 20, 20)) )
```

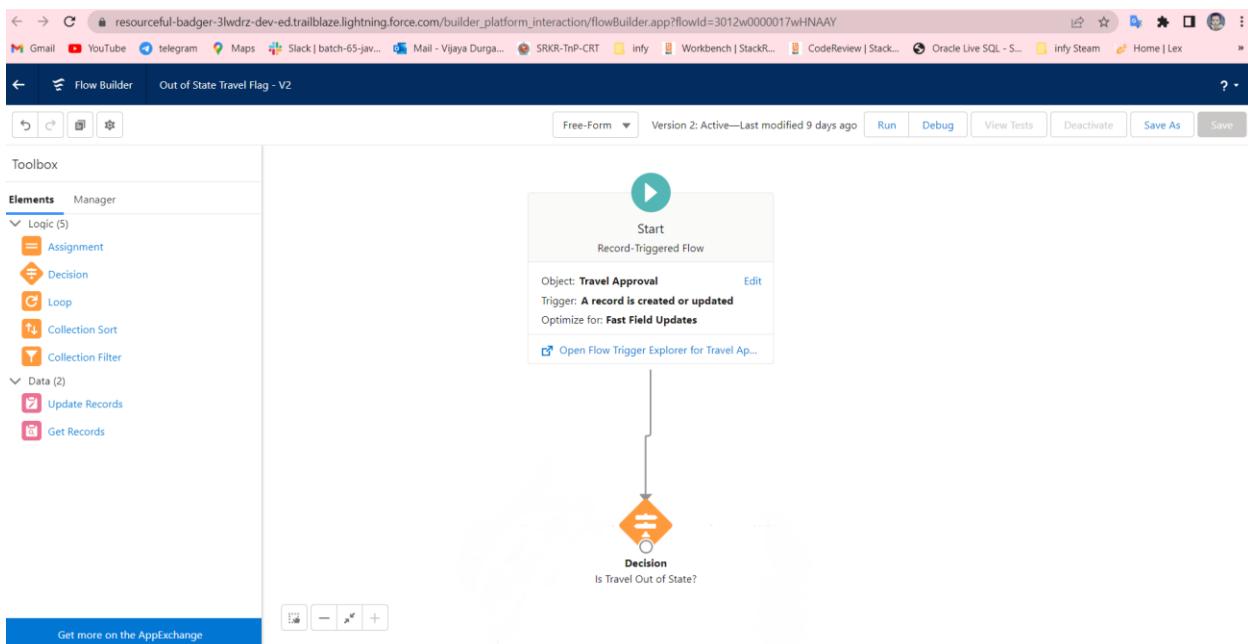
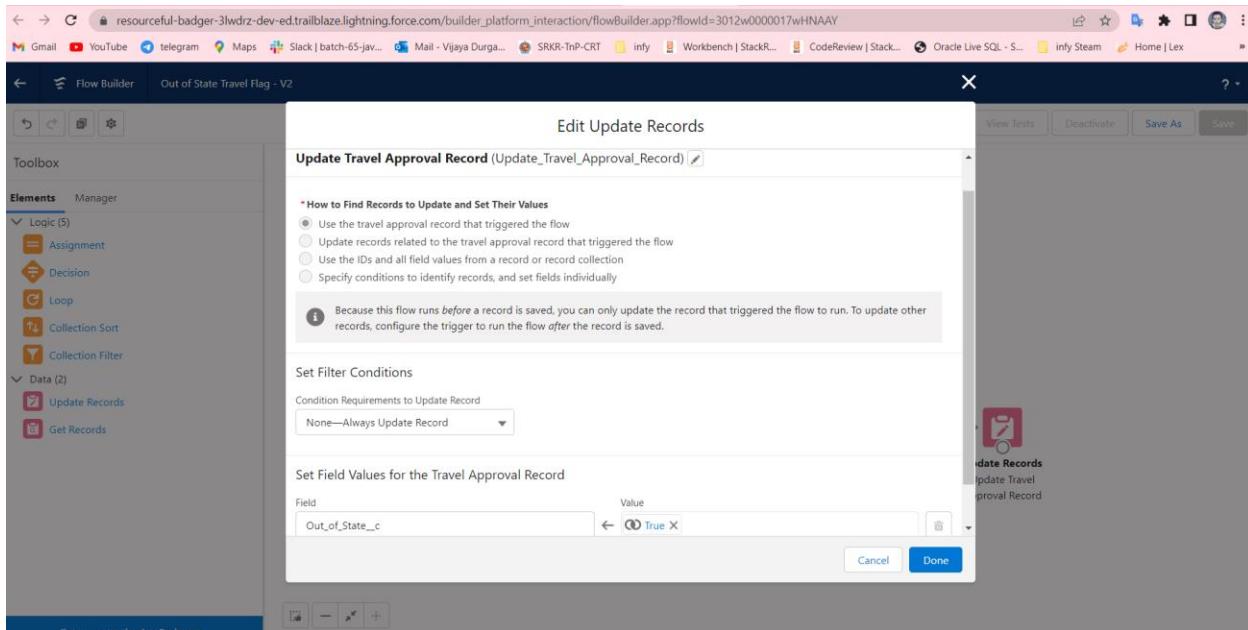
The top right corner of the page header shows the user's profile: KONDEPUDI VIJAYA DURGA, resourceful-badger-3lwdrz-dev-ed.trailblaze...., with options for 'Settings' and 'Log Out'. A 'DISPLAY DENSITY' dropdown is set to 'Comfy'.

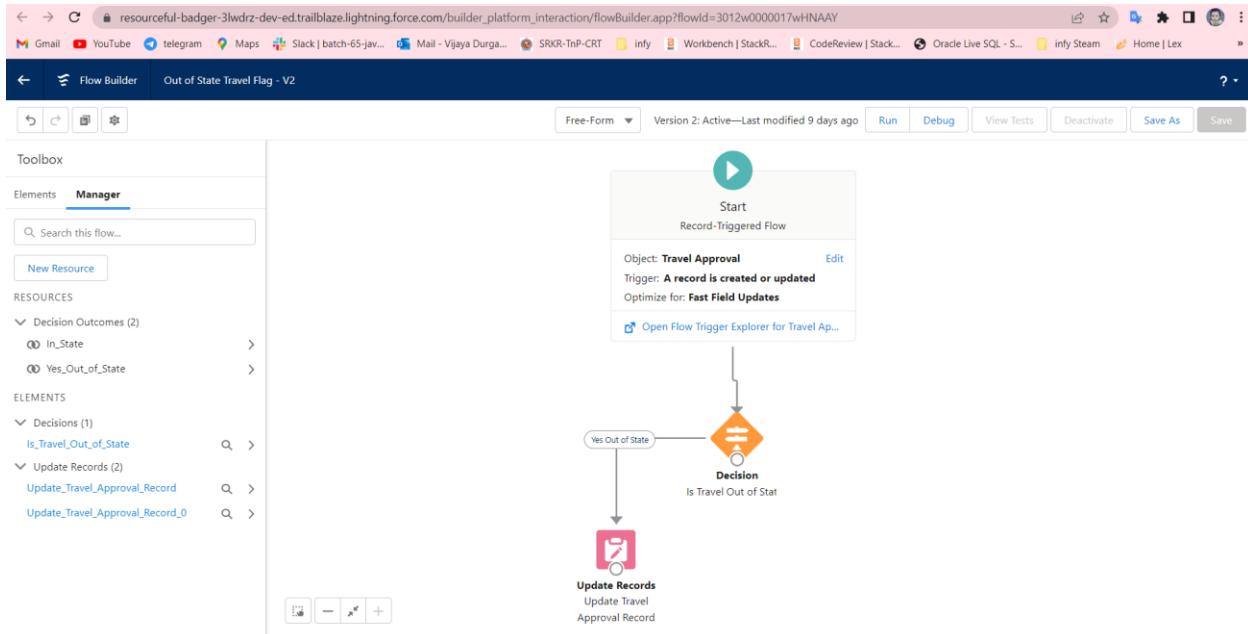
Step 5

Created a Record – Trigger flow Decision block



Update Travel Approval Record (Yes out of State)





Update Travel Approval Record (In State)

Edit Update Records

How to Find Records to Update and Set Their Values

- Use the travel approval record that triggered the flow
- Update records related to the travel approval record that triggered the flow
- Use the IDs and all field values from a record or record collection
- Specify conditions to identify records, and set fields individually

Because this flow runs before a record is saved, you can only update the record that triggered the flow to run. To update other records, configure the trigger to run the flow after the record is saved.

Set Filter Conditions

Condition Requirements to Update Record

None—Always Update Record

Set Field Values for the Travel Approval Record

Field	Value
Out_of_State__c	True

Add Field

Cancel Done

resourceful-badger-3lwdrz-dev-ed.trailblaze.lightning.force.com/builder_platform_interaction/flowBuilder.app?flowId=3012w0000017wHNAAY

Edit Update Records

Update Salesforce records using values from the flow.

* Label: Update Travel Approval Record * API Name: Update_Travel_Approval_Record

Description:

* How to Find Records to Update and Set Their Values

- Use the travel approval record that triggered the flow
- Update records related to the travel approval record that triggered the flow
- Use the IDs and all field values from a record or record collection
- Specify conditions to identify records, and set fields individually

Because this flow runs before a record is saved, you can only update the record that triggered the flow to run. To update other records, configure the trigger to run the flow after the record is saved.

Set Filter Conditions

Condition Requirements to Update Records

Cancel Done

resourceful-badger-3lwdrz-dev-ed.trailblaze.lightning.force.com/builder_platform_interaction/flowBuilder.app?flowId=3012w0000017wHNAAY

Flow Builder

Out of State Travel Flag - V2

Free-Form Version 2: Active—Last modified 9 days ago Run Debug View Tests Deactivate Save As Save

Start Record-Triggered Flow

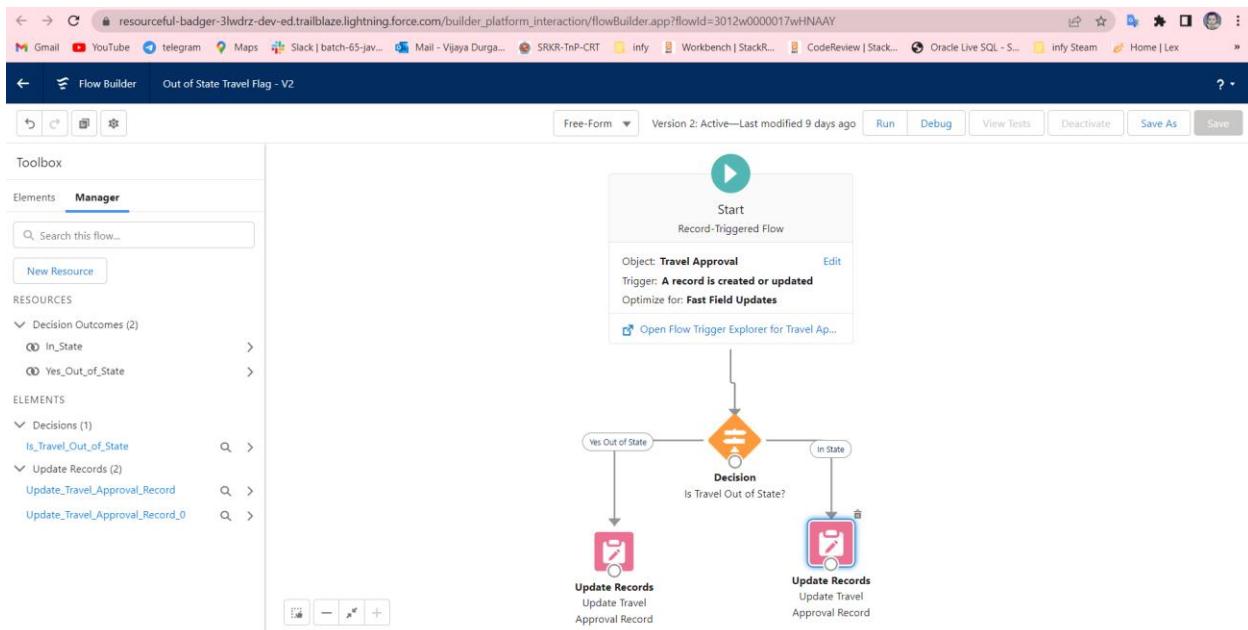
Object: Travel Approval Edit Trigger: A record is created or updated Optimize for: Fast Field Updates Open Flow Trigger Explorer for Travel Approval

Decision Is Travel Out of State?

```

graph TD
    Start((Start)) --> Decision{Is Travel Out of State?}
    Decision -- "Yes Out of State" --> Update1[Update Records  
Update Travel Approval Record]
    Decision -- "In State" --> Update2[Update Records  
Update Travel Approval Record]
    
```

Out of State Travel Flag(flow)



Step -6

Created an approval process Travel Approval Request

The screenshot shows the 'Approval Processes' setup page for a process named 'Travel Approval: Travel Approval Request'. The process is active and was created by KONDEPUDI VIJAYA DURGA on 2/14/2023 at 11:40 PM. The 'Process Definition Detail' section includes fields like Unique Name ('Travel_Approval_Request'), Description ('Travel Approval: Total Expenses GREATER THAN 0'), and Record Editability ('Administrator ONLY'). The 'Initial Submission Actions' section contains a single entry: 'Record Lock' with the description 'Lock the record from being edited'. The 'Approval Steps' section shows one step: '1' with an assigned approver of 'Manager' and a reject behavior of 'Final Rejection'. The right side of the screen displays a user profile for KONDEPUDI VIJAYA DURGA and a sidebar with display density and options settings.

Final Approved actions

The screenshot shows the Salesforce Lightning interface for configuring a Field Update. The page title is "Field Updates" under the "SETUP" tab. The specific configuration is for "Set Status to Approved".
Field Update Detail:

- Name: Set Status to Approved
- Unique Name: Set_Status_to_Approved
- Description:
- Object: Travel Approval
- Field to Update: Travel Approval: Status
- Field Data Type: Picklist
- Re-evaluate Workflow Rules after Field Change:
- New Field Value: Approved

Buttons: Edit | Delete
Rules Using This Field Update: This field update is currently not used by any rules.
Approval Processes Using This Field Update:

Action	Approval Process Name	Description	Type	State
Edit	Travel Approval Request		Travel Approval	Active

Buttons: Edit | Del | Approval Processes Using This Field Update Help ?

Final Rejection Actions

The screenshot shows the Salesforce Lightning interface for configuring a Field Update. The page title is "Field Updates" under the "SETUP" tab. The specific configuration is for "Set Status to Rejected".
Field Update Detail:

- Name: Set Status to Rejected
- Unique Name: Set_Status_to_Rejected
- Description:
- Object: Travel Approval
- Field to Update: Travel Approval: Status
- Field Data Type: Picklist
- Re-evaluate Workflow Rules after Field Change:
- New Field Value: Rejected

Buttons: Edit | Delete
Rules Using This Field Update: This field update is currently not used by any rules.
Approval Processes Using This Field Update:

Action	Approval Process Name	Description	Type	State
Edit	Travel Approval Request		Travel Approval	Active

Buttons: Edit | Del | Approval Processes Using This Field Update Help ?

Process Automation Settings

The default workflow user is required for scheduled paths in record-triggered flows and time-dependent actions in workflow rules. If the user who triggered the automation is no longer active, the default workflow user is associated with the actions that are executed by the automation. The default workflow user always runs schedule-triggered flows.

Default Workflow User: KONDEPUDI VIJAYA DURG

By default, no email address is set for the Automated Process User. Event processes and autolaunched flows with triggers use the email address to send emails for actions and errors. Orchestrations use the email address to send notifications. To set the email address for the Automated Process User, specify an organization-wide email address for the system administrator profile.

Automated Process User Email Address: [redacted]

Email Approval Sender: Approval Submitter

Enable email approval response:

By enabling the email approval response feature, you agree to allow Salesforce to process email approval responses, update approval requests for all active users in your organization, and update the approval object on behalf of your organization's users.

Let users pause flows when they need to wait for more information. Once you enable this setting, the Pause button appears on every screen that has Pause enabled.

Let users resume interviews that are shared with them, either directly or via the role hierarchy. When disabled, interviews can be resumed only by the user who paused the interview or a flow admin who has view access.

Let users resume shared flow interviews:

Flows launched from a URL or from Setup use the Lightning runtime experience instead of the classic runtime experience. Only Lightning runtime supports two-column flow screens, custom screen components, and local actions.

Enable Lightning runtime for flows:

Assigned to Eric Executive

Travel Approval Approval Pending

Submitter: KONDEPUDI VIJAYA DURGA Date Submitted: 24-Feb-2023 Actual Approver: Eric Executive Assigned To: Eric Executive

Approval Details

Approval #: TA-00001

Owner: KONDEPUDI VIJAYA DURGA

Submitter Com

KONDEPU
ghf 24-Feb-2023, 12:44:22 pm

Stay ahead of incidents

Help your teams proactively respond to large-scale disruptions with the free Customer Service Incident Management solution from Service Cloud.

Dismiss Get Started

resourceful-badger-3lwdrz-dev-ed.trailblaze.lightning.force.com/lightning/r/ProcessInstanceStep/04h2w000004xjCBAAY/view

Travel App Chatter Reports Dashboards Departments Travel Approvals Kcustomers Expense Items TA-00001 Approval

Process Instance Step Travel Approval Approval Approved

Submitter: KONDEPUDI VIJAYA DURGA Date Submitted: 24-Feb-2023 Actual Approver: Eric Executive Assigned To: Eric Executive

Details

Approval Details

Travel Approval #: [TA-00001](#)

Owner: KONDEPUDI VIJAYA DURGA

Approver Comm

Eric Executive Good 26-Feb-2023, 3:45:59 pm

DISPLAY DENSITY

Comfy
 Compact

OPTIONS

[Switch to Salesforce Classic](#) [Add Username](#)

Stay ahead of incidents

Help your teams proactively respond to large-scale disruptions with the free Customer Service Incident Management solution from Service Cloud.

[Dismiss](#) [Get Started](#)

Exercise 2

Step 1

Imposed Travel Approval Records

resourceful-badger-3lwdrz-dev-ed.trailblaze.lightning.force.com/lightning/setup/AsyncApollJobStatus/page?address=%2F7502w00000OLi6SAAT

Setup Home Object Manager

IMPORT

User Interface Translation Workbench Import

Translations Integrations Data Import Wizard

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

Bulk Data Load Jobs

Bulk Data Load Job 7502w00000OLi6S

View the details of a bulk data load job.

< Back to List: Bulk Data Load Jobs

Job ID	7502w00000OLi6S	Submitted By	KONDEPUDI VIJAYA DURGA	Job Type	Bulk V1 Operation	Status	Closed
Start Time	2/23/2023, 10:54 PM IST	Queued Batches	0	API Active Processing Time (ms)	976		
End Time	2/23/2023, 10:54 PM IST	In Progress Batches	0	Apex Processing Time (ms)	0		
Time to Complete (hh:mm:ss)	00:02	Completed Batches	1	Total Processing Time (ms)	1184		
Object	Travel Approval	Failed Batches	0	Records Processed	300		
External ID Field		Progress	100%	Records Failed	1		
Content Type	CSV	Records Processed	300	Retries	0		
Concurrency Mode	Parallel	Records Failed	1				
API Version	57.0	Retries	0				

Step 2

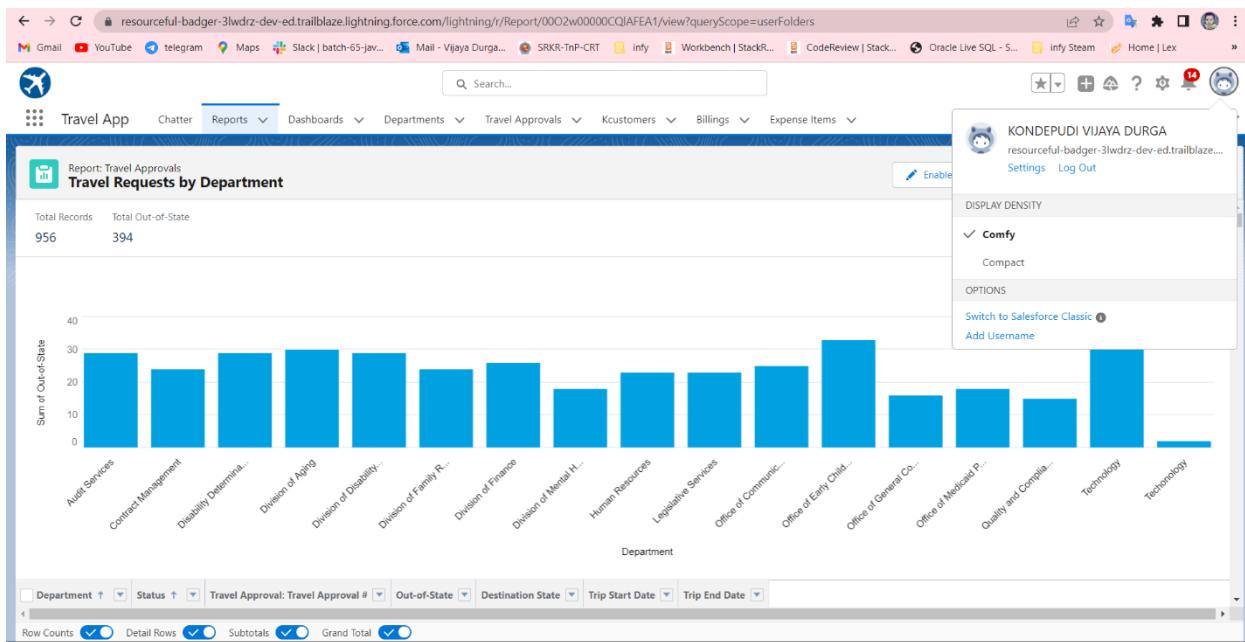
Created a Report on Travel Requests by Department

The screenshot shows a Salesforce Lightning report titled "Travel Requests by Department". The report header indicates "Total Records" (954) and "Total Out-of-State" (393). A filter for "Status" is applied to show only "Approved" records. The table displays 15 rows of travel approvals, each with columns for Department, Travel Approval #, Status, Out-of-State, Destination State, Trip Start Date, and Trip End Date. The "Audit Services" department is listed for all entries.

Department	Travel Approval #	Status	Out-of-State	Destination State	Trip Start Date	Trip End Date
Audit Services (57)	TA-00166	Approved	<input checked="" type="checkbox"/>	OK	3/9/2019	3/9/2019
	TA-00174	Approved	<input checked="" type="checkbox"/>	OK	8/7/2019	9/7/2019
	TA-00182	Approved	<input checked="" type="checkbox"/>	FL	7/8/2019	7/9/2019
	TA-00186	Approved	<input checked="" type="checkbox"/>	OK	4/11/2019	7/11/2019
	TA-00191	Approved	<input checked="" type="checkbox"/>	OK	8/7/2019	8/7/2019
	TA-00605	Approved	<input type="checkbox"/>	TX	4/30/2019	5/10/2019
	TA-00624	Approved	<input checked="" type="checkbox"/>	OK	12/27/2019	1/10/2020
	TA-00633	Approved	<input checked="" type="checkbox"/>	FL	9/21/2019	10/6/2019
	TA-00636	Approved	<input checked="" type="checkbox"/>	OK	9/3/2019	9/3/2019
	TA-00638	Approved	<input checked="" type="checkbox"/>	CA	3/20/2019	4/10/2019
	TA-00673	Approved	<input checked="" type="checkbox"/>	OK	7/8/2019	7/9/2019
	TA-00783	Approved	<input checked="" type="checkbox"/>	FL	4/15/2019	4/15/2019
	TA-00699	Approved	<input checked="" type="checkbox"/>	FL	8/7/2019	8/7/2019
	TA-00725	Approved	<input checked="" type="checkbox"/>	FL	2/18/2019	2/20/2019

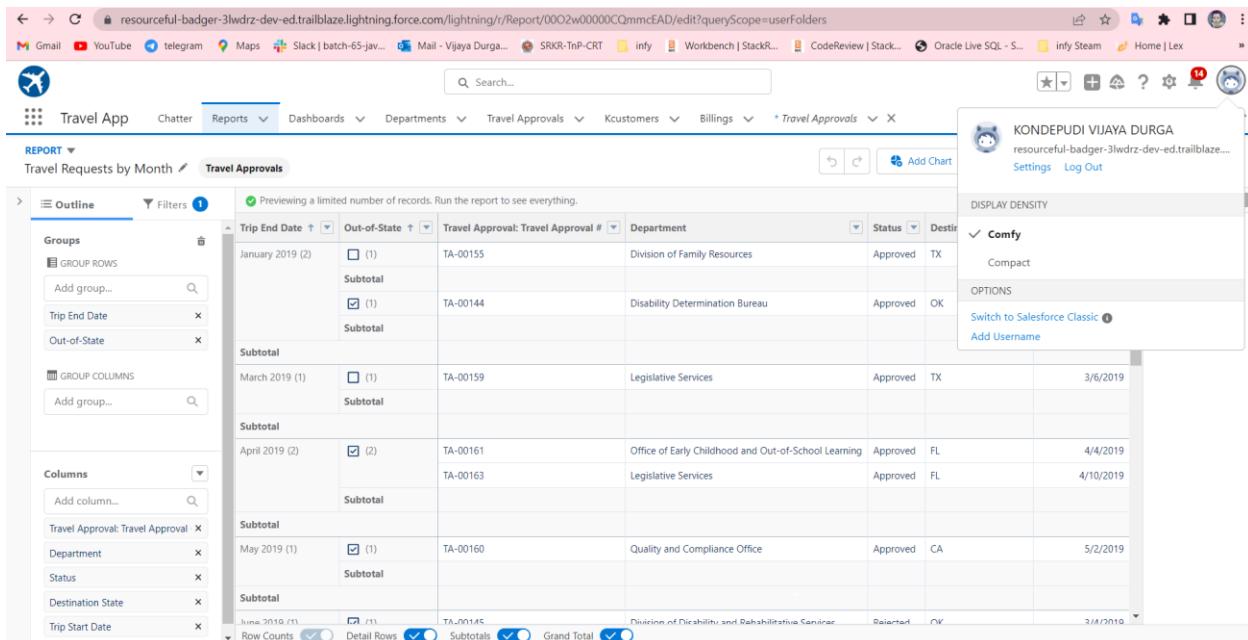
After Testing

The screenshot shows the same Salesforce Lightning report after testing. The user profile "KONDEPUDI VIJAYA DURGA" is visible in the top right corner. The report table remains identical to the previous one, listing travel approvals for the "Audit Services" department with the "Approved" status filter applied.



Step -3

Created a Travel Requests by Monthly Report



Step 4

Created a Report and Dashboard for Travel Approvals

The screenshot shows the Salesforce Reports page. The left sidebar lists categories: Reports, Recent, Created by Me, Private Reports, Public Reports, All Reports, Folders, All Folders, Created by Me, Shared with Me, Favorites, and All Favorites. The main content area displays a table of recent reports:

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	Travel Requests by Month		Public Reports	KONDEPUDI VIJAYA DURGA	2/15/2023, 4:06 PM	
	Travel Requests by Department		Public Reports	KONDEPUDI VIJAYA DURGA	2/15/2023, 3:02 PM	
	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	Automated Process	2/14/2023, 7:18 PM	

The screenshot shows the Salesforce Dashboards page. The left sidebar lists categories: Chatter, Reports, Dashboards, Departments, Travel Approvals, Kcustomers, Billings, and Travel Approvals. The main content area displays the "Travel Requests Dashboard".

Travel Requests by Department

Department	Record Count
Audit Services	57
Contract Management	65
Disability Determination Bur...	63
Division of Aging	65
Division of Disability and Re...	62
Division of Family Resources	56
Division of Finance	68
Division of Mental Health an...	54
Human Resources	46
Legislative Services	53
Office of Communications a...	61
Office of Early Childhood an...	68

[View Report \(Travel Requests by Department\)](#)

Travel Requests by Month

Trip End Date	Out-of-State	Record Count
Jan... false	false	20
Jan... true	true	14
Feb... false	false	36
Feb... true	true	21
Mar... false	false	40
Mar... true	true	27
Apr... false	false	54
Apr... true	true	65
May... false	false	42
May... true	true	32
Jun... false	false	30
Jun... true	true	21
July... false	false	45
July... true	true	41
Aug... false	false	38
Aug... true	true	28
Sep... false	false	61

[View Report \(Travel Requests by Month\)](#)

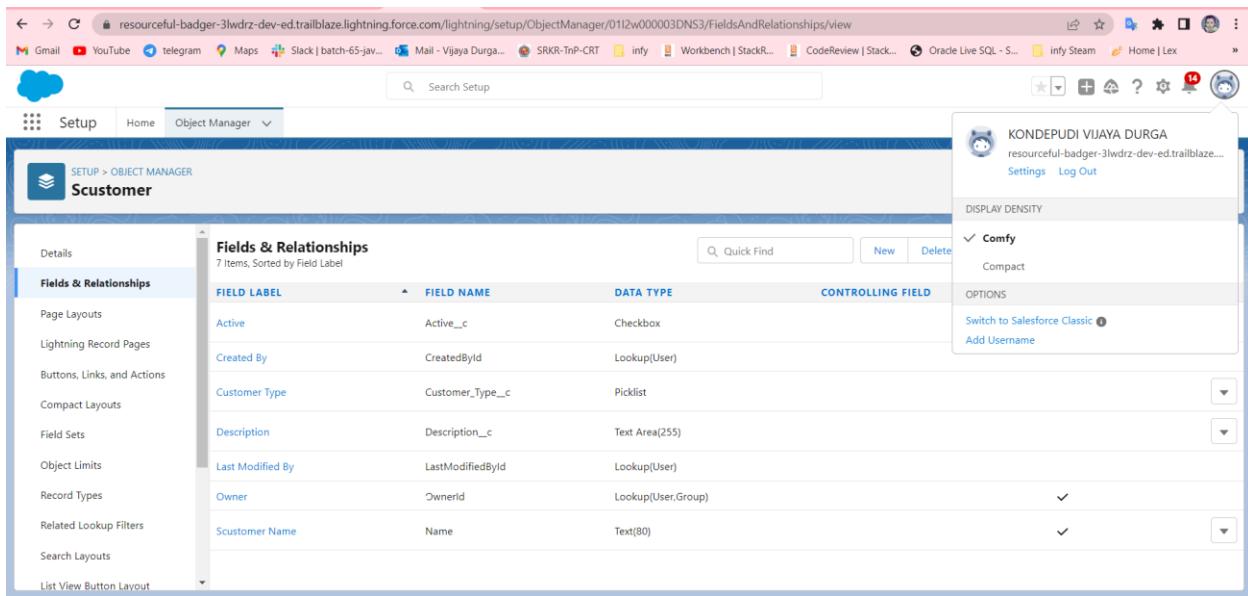
Module 3

Exercise -1

Created Code Playground App

Created the Custom Object Customer as (Scustomer) as there is already a Standard Object named Customer

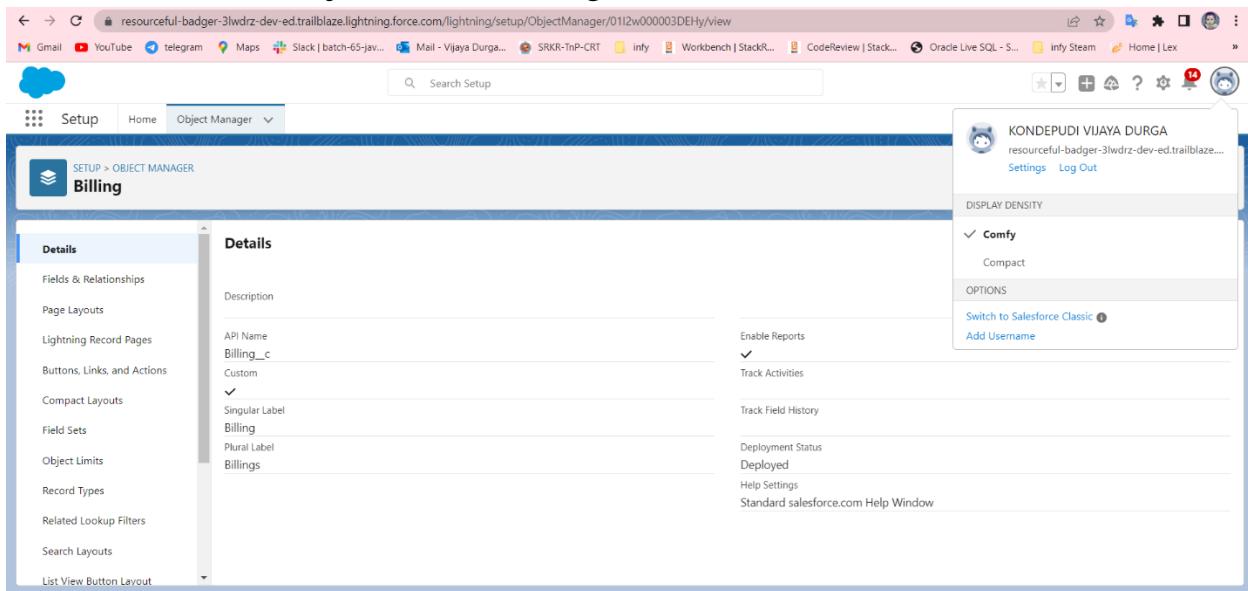
Created all the Custom Fields



The screenshot shows the Salesforce Object Manager interface for the 'Scustomer' object. On the left, a sidebar lists various setup options like Page Layouts, Lightning Record Pages, and Field Sets. The main area displays a table titled 'Fields & Relationships' with 7 items. The columns are FIELD LABEL, FIELD NAME, DATA TYPE, and CONTROLLING FIELD. The fields listed are Active, Active_c (Checkbox), Created By, CreatedBy (Lookup(User)), Customer Type, Customer_Type__c (Picklist), Description, Description__c (Text Area(255)), Last Modified By, LastModifiedBy (Lookup(User)), Owner, OwnerId (Lookup(User,Group)), and Scustomer Name, Name (Text(80)). A context menu on the right is set to 'Comfy' display density.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD
Active	Active_c	Checkbox	
Created By	CreatedBy	Lookup(User)	
Customer Type	Customer_Type__c	Picklist	
Description	Description__c	Text Area(255)	
Last Modified By	LastModifiedBy	Lookup(User)	
Owner	OwnerId	Lookup(User,Group)	✓
Scustomer Name	Name	Text(80)	✓

Created a Custom Object named Billing



The screenshot shows the Salesforce Object Manager interface for the 'Billing' custom object. The left sidebar shows standard setup options. The main area displays the 'Details' tab for the Billing object. It includes fields for API Name (Billing__c), Singular Label (Billing), Plural Label (Billings), and various status and history settings. A context menu on the right is set to 'Comfy' display density.

API Name	Enable Reports
Billing__c	✓
Custom	Track Activities
Singular Label	Track Field History
Billing	Deployment Status
Plural Label	Deployed
Billings	Help Settings
	Standard salesforce.com Help Window

Created Custom fields for billing object

The screenshot shows the Salesforce Object Manager interface for the 'Billing' object. On the left, a sidebar lists various setup options like Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, etc. The main area is titled 'Fields & Relationships' and displays a table of seven custom fields:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD
Amount Paid	Amount_Paid__c	Currency(18, 0)	
Bill Number	Name	Auto Number	
Created By	CreatedById	Lookup(User)	
Customer Type	Customer_Type__c	Picklist	
Last Modified By	LastModifiedById	Lookup(User)	
Scustomer	Scustomer__c	Master-Detail(Scustomer)	
Status	Status__c	Picklist	

Finally, it looks as shown below

The screenshot shows the Leads list view in the Salesforce Code Playground. The title bar indicates 'Leads All Open Leads'. The table displays 15 items, sorted by Name. The columns include Name, Company, State/Zip, Email, Lead Status, and Created Date. The right side of the screen shows the standard Salesforce user interface with a sidebar and a floating user info bar.

#	Name	Company	State/Zip	Email	Lead Status	Created Date
1	Bertha Boxer	Farmers Coop. of Florida	FL	bertha@fcof.net	Working - Contacted	14/02/2023, 7:18 PM
2	Betty Bair	American Banking Corp.	PA	bblair@abankingco.com	Working - Contacted	14/02/2023, 7:18 PM
3	Brenda McCleure	Cardinal Inc.	IL	brenda@cardinal.net	Working - Contacted	14/02/2023, 7:18 PM
4	David Monaco	Blues Entertainment Corp.		david@blues.com	Working - Contacted	14/02/2023, 7:18 PM
5	Jeff Glimpse	Jackson Controls		jeffg@jackson.com	Open - Not Contacted	14/02/2023, 7:18 PM
6	Kathy Snyder	TNR Corp.	CT	ksnyder@tnr.net	Working - Contacted	14/02/2023, 7:18 PM
7	Kristen Akin	Aethna Home Products	VA	kakin@athenahome.com	Working - Contacted	14/02/2023, 7:18 PM
8	Mike Braund	Metropolitan Health Services	MD	likeb@metro.com	Open - Not Contacted	14/02/2023, 7:18 PM
9	Norm May	Greenwich Media	OH	norm_may@greenwich.net	Working - Contacted	14/02/2023, 7:18 PM
10	Patricia Feager	International Shipping Co.	NC	patricia_feager@iis.com	Working - Contacted	14/02/2023, 7:18 PM
11	Phyllis Cotton	Abbott Insurance	VA	pcotton@abbottins.net	Open - Not Contacted	14/02/2023, 7:18 PM
12	Sandra Eberhard	Highland Manufacturing Ltd.	CA	sandra_e@highland.net	Working - Contacted	14/02/2023, 7:18 PM
13	Shelly Brownell	Western Telecommunications Corp.	CA	shellyb@westerntelecom.com	Working - Contacted	14/02/2023, 7:18 PM

Exercise 2

String Variable using endsWith() method

The screenshot shows the Salesforce Dev Console interface. At the top, there's a browser header with tabs like Gmail, YouTube, telegram, Maps, Slack, Mail - Vijaya Durga..., SRKR-TnP-CRT, infy, Workbench | Stack..., CodeReview | Stack..., Oracle Live SQL - S..., infy Steam, Home | Lex, and more. Below the header is a navigation bar with File, Edit, Debug, Test, Workspace, Help, and a search bar. The main area has tabs for DisqualificationTestleads.aptx and Log executeAnonymous @2/25/2023, 11:02:04 AM. A modal window titled "Enter Apex Code" contains the following code:

```
1 String x ='Kondepudi Vijaya Durga';
2 system.debug(x.endsWith('a'));
```

Below the modal is a "Logs" tab in the execution log, which shows a single entry:

User	Application	Operation	Time	Status	Read	Size
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/executeAn...	2/25/2023, 11:02:04 AM	Success		2.17 KB

Used Date Method and displayed the date

The screenshot shows the Salesforce Dev Console interface on a Mac OS X desktop. The browser header and navigation bar are similar to the previous screenshot. The main area has tabs for DisqualificationTestleads.aptx and Log executeAnonymous @21/02/2023, 09:46:44. A modal window titled "Enter Apex Code" contains the following code:

```
1 Date s1=Date.today();
2 System.debug(s1);
3 Date s2=s1.addDays(30);
4 System.debug(s2);
```

Below the modal is a "Logs" tab in the execution log, which shows two entries:

User	Application	Operation	Time	Status	Read	Size
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/executeAn...	21/02/2023, 09:55:25	Success		2.51 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/executeAn...	21/02/2023, 09:46:44	Success		2.17 KB

Converted the string to integer and added 20 to it

The screenshot shows the Salesforce Apex Dev Console interface. At the top, there are tabs for 'File', 'Edit', 'Debug', 'Test', 'Workspace', and 'Help'. Below the tabs, three log entries are listed: 'Log executeAnonymous @21/02/2023, 09:46:44', 'Log executeAnonymous @21/02/2023, 09:55:25', and 'Log executeAnonymous @21/02/2023, 11:04:57'. The 'Logs' tab is selected. In the center, there is an 'Enter Apex Code' window containing the following code:

```
1 String s='10';
2 Integer a= Integer.valueOf(s);
3 system.debug(a);
4 system.debug(a+20);
```

Below the code editor, there are buttons for 'Open Log', 'Execute', and 'Execute Highlighted'. A progress bar indicates the execution status. At the bottom, a table lists log entries with columns for 'User', 'Application', 'Operation', 'Time', 'Status', 'Read', and 'Size'. The log table shows five entries from the user 'KONDEPUDI VIJAYA DURGA'.

Used length method to display String length

The screenshot shows the Salesforce Apex Dev Console interface. At the top, there are tabs for 'File', 'Edit', 'Debug', 'Test', 'Workspace', and 'Help'. Below the tabs, three log entries are listed: 'Log executeAnonymous @21/02/2023, 09:46:44', 'Log executeAnonymous @21/02/2023, 09:55:25', and 'Log executeAnonymous @21/02/2023, 11:04:57'. The 'Logs' tab is selected. In the center, there is an 'Enter Apex Code' window containing the following code:

```
1 String a='Kondepudi Vijaya Durga';
2 system.debug('size:' +a.length());
```

Below the code editor, there are buttons for 'Open Log', 'Execute', and 'Execute Highlighted'. A progress bar indicates the execution status. At the bottom, a table lists log entries with columns for 'User', 'Application', 'Operation', 'Time', 'Status', 'Read', and 'Size'. The log table shows five entries from the user 'KONDEPUDI VIJAYA DURGA'.

Defined a list and displayed the outputs using different methods

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

```
List<Integer> ll= new List<Integer>();  
ll.add(0);  
ll.add(1);  
ll.add(2);  
ll.add(3);  
ll.add(4);  
System.debug('After using add() method'+ll);  
System.debug('After using get() method'+ll.get(0));  
ll.set(1,100);  
System.debug('After using set() method'+ll);  
ll.clear();  
System.debug('After clearing all elements'+ll);
```

Below the code editor is a "Logs" tab in the navigation bar. The logs table shows the following entries:

User	Application	Operation	Time	Status	Read	Size
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:19:18	Success		4.42 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:18:55	Success		4.02 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:18:15	Success		3.61 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:17:55	Success		3.25 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:06:46	Success		2.27 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:04:57	Success		2.43 KB

The status bar at the bottom indicates the date and time: Tue 21 Feb 11:27 AM.

Printed numbers between 0 to 9

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

```
Integer a=20;  
while(a>12){  
    for(a=0;a<10;a++){  
        System.debug('Value of a is: '+a);  
    }  
}
```

Below the code editor is a "Logs" tab in the navigation bar. The logs table shows the following entries:

User	Application	Operation	Time	Status	Read	Size
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:24:46	Success		5.65 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:22:52	Apex CPU time limit exceeded	Unread	18.09 MB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:19:18	Success		4.42 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:18:55	Success		4.02 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:18:15	Success		3.61 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:17:55	Success		3.25 KB

The status bar at the bottom indicates the date and time: Tue 21 Feb 11:27 AM.

Exercise 3

The screenshot shows the Salesforce Trailhead exercise 3 page. At the top, there is a navigation bar with links like File, Edit, Debug, Test, Workspace, Help, and a search bar. Below the navigation bar is a tab bar with several tabs: 'Log executeAnonymous @21/02/2023, 11:24:46', 'Log executeAnonymous @21/02/2023, 11:29:27', 'Log executeAnonymous @21/02/2023, 11:31:04', 'Log executeAnonymous @21/02/2023, 11:34:01', and 'Log executeAnonymous @21/02/2023, 11:35:26'. The main area has a title 'Execution Log' and a table with columns: Timestamp, Event, and Details. A single entry is shown: '11:35:26:002 USER_DEBUG [7]DEBUG|True'. Below this is an 'Enter Apex Code' window containing the following code:

```
1 Integer myunluckyNumber = 7;
2 Integer myluckyNumber = 15;
3 if(myluckyNumber != myunluckyNumber + 8){
4     system.debug('False');
5 }
6 else{
7     system.debug('True');
8 }
```

At the bottom of the page, there is a 'Logs' tab selected in the navigation bar, followed by 'Tests', 'Checkpoints', 'Query Editor', 'View State', 'Progress', and 'Problems'. Below the tabs is a table showing log entries:

User	Application	Operation	Time	Status	Read	Size
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:35:26	Success		2.64 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:34:01	Success		2.64 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:31:04	Success		5.62 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:29:27	Success		31.54 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:28:43	Apex CPU time limit exceeded	Unread	17.59 MB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:28:15	Apex CPU time limit exceeded	Unread	18.25 MB

Exercise 4

The screenshot shows the Salesforce Trailhead exercise 4 page. The layout is identical to exercise 3, with a navigation bar, tab bar, and execution log table at the top. The 'Logs' tab is selected in the navigation bar. Below it is a table of log entries:

User	Application	Operation	Time	Status	Read	Size
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:40:33	Success		2.37 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:35:26	Success		2.64 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:34:01	Success		2.64 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:31:04	Success		5.62 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:29:27	Success		31.54 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 11:28:43	Apex CPU time limit exceeded	Unread	17.59 MB

Below the table is an 'Enter Apex Code' window containing the following code:

```
1 Boolean.isTrue = True;
2 Boolean.IsFalse = false;
3 System.debug(isTrue || IsFalse);
```

Exercise 5

The screenshot shows the Salesforce Apex Dev Console interface. At the top, there's a navigation bar with links like File, Edit, Debug, Test, Workspace, Help, etc. Below it is a tab bar with several logs: 'Log executeAnonymous @21/02/2023, 11:31:04', 'Log executeAnonymous @21/02/2023, 11:34:01', 'Log executeAnonymous @21/02/2023, 11:35:26', 'Log executeAnonymous @21/02/2023, 11:40:33', and 'Log executeAnonymous @21/02/2023, 11:43:56'. The main area has a title 'Execution Log' with columns for Timestamp, Event, and Details. A single entry is shown: '11:43:56:003 USER_DEBUG [3]]DEBUG|true'. Below this is a large text area titled 'Enter Apex Code' containing the following code:

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

At the bottom, there are buttons for 'Open Log', 'Execute', and 'Execute Highlighted'. Below the code editor is a log table with columns: User, Application, Operation, Time, Status, Read, and Size. The table lists multiple entries from 'KONDEPUDI VIJAYA DURGA' with various operation types like 'services/data/v57.0/tooling/execut...' and sizes ranging from 2.46 KB to 31.54 KB.

Exercise 6

Program for Finding the Grade based on Score

The screenshot shows the Salesforce Apex Dev Console interface. At the top, there's a navigation bar with links like File, Edit, Debug, Test, Workspace, Help, etc. Below it is a tab bar with several logs: 'Log executeAnonymous @21/02/2023, 16:18:28', 'DisqualifyTestLeads.apxt', 'DisqualifyTestLeadsTest.apxc', 'CustomerTriggerTest.apxc', '7072w000008Kgxoa', 'Log ApexTestHandler @22/02/2023, 11:59:18', and 'studentGrades.apxc'. The main area has a code editor window with the following Apex code:

```
1 public class studentGrades {
2     public static void gradesScored(){
3         Integer Score=100;
4         System.debug('Score is '+ Score);
5         if(Score==100){
6             System.debug('Grade: A+");
7         }
8         else if(Score>=90){
9             System.debug('Grade : A');
10        }
11        else if(Score>=80){
12            System.debug('Grade : B');
13        }
14        else{
15            System.debug('Grade : Failed');
16        }
17    }
18 }
```

Below the code editor is a log table with columns: User, Application, Operation, Time, Status, Read, and Size. The table lists four entries from 'KONDEPUDI VIJAYA DURGA' with various operation types like 'services/data/v57.0/tooling/runTest...', 'ApexTestHandler', and 'ApexTestHandler'. The log table also includes a 'Code Coverage: None' and 'API Version: 57' dropdown.

Execution Log

Timestamp	Event	Details
13:05:07:003	USER_DEBUG	[4] DEBUG Score is 100
13:05:07:003	USER_DEBUG	[5] DEBUG Grade: A+

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/execut...	22/02/2023, 13:05:07	Success		3.06 KB
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/runTest...	22/02/2023, 12:27:22	Success	Unread	2.83 KB
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	22/02/2023, 12:01:48	Success		2.83 KB
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	22/02/2023, 12:01:48	Insert failed. First exception on row ...	Unread	14.28 KB
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	22/02/2023, 12:01:48	Success	Unread	996 bytes

Filter Click here to filter the log list

Exercise 7

Program to execute Apex – for loop

```

1  public class BillingObj {
2    public static void records(){
3      Billing__c b = new Billing__c();
4      b.Amount_Paid__c=15000;
5      b.Status__c ='Paid';
6      Billing__c b1= new Billing__c();
7      b1.Amount_Paid__c=15000;
8      b1.Status__c ='Paid';
9      Billing__c b2= new Billing__c();
10     b2.Amount_Paid__c=15000;
11     b2.Status__c ='Paid';
12     List<Billing__c> bill = new List<Billing__c>();
13     bill.add(b);
14     bill.add(b1);
15     bill.add(b2);
16     try{
17       insert bill;
18     }

```

Logs Tests Checkpoints Query Editor View State Progress Problems

Name	Line	Problem
------	------	---------

← → C resourceful-badger-3lwdrz-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

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

Log executeAnonymous @21/02/2023, 09:46:44 Log executeAnonymous @21/02/2023, 09:55:25 Log executeAnonymous @21/02/2023, 10:16:30 BillingObj.apxc Log executeAnonymous @21/02/2023, 12:34:42

Code Coverage: None API Version: 57 Go To

```
17         insert bill;
18     }
19     catch (Exception e){
20         system.debug('Invalid Data');
21     }
22     bill=[Select Id,Name,Status__c FROM Billing__c WHERE CreatedDate = today];
23     system.debug('Value of Billing List: '+bill);
24     for(Billing__c bb: bill){
25         if(bb.Status__c == 'Paid')
26         {
27             System.debug('Value of Current record over which current record is iterating is: '+bb );
28             system.debug('Billing Records are: '+bb.Name);
29         }
30     }
31 }
32 }
33 }
34 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

Name Line Problem



← → C resourceful-badger-3lwdrz-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

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

Log executeAnonymous @21/02/2023, 09:46:44 Log executeAnonymous @21/02/2023, 09:55:25 Log executeAnonymous @21/02/2023, 10:16:30 BillingObj.apxc Log executeAnonymous @21/02/2023, 12:34:42

Execution Log

Timestamp	Event	Details
12:34:42:055	USER_DEBUG	[23]DEBUG Value of Billing List: Billing__c:{Id=a042w00000xDOLAA2, Name=B - 0019, Status__c=Paid}, Billing__c:{Id=a042w00000xDOMAA2, Name=B - 0020, Status__c=Paid}, Billing__c:{Id=a042w00000xDONAA2, Name=B - 0021, Status__c=Paid}
12:34:42:055	USER_DEBUG	[27]DEBUG Value of Current record over which current record is iterating is: Billing__c:{Id=a042w00000xDOLAA2, Name=B - 0019, Status__c=Paid}
12:34:42:055	USER_DEBUG	[28]DEBUG Billing Records are: B - 0019
12:34:42:055	USER_DEBUG	[27]DEBUG Value of Current record over which current record is iterating is: Billing__c:{Id=a042w00000xDOMAA2, Name=B - 0020, Status__c=Paid}
12:34:42:055	USER_DEBUG	[28]DEBUG Billing Records are: B - 0020
12:34:42:055	USER_DEBUG	[27]DEBUG Value of Current record over which current record is iterating is: Billing__c:{Id=a042w00000xDONAA2, Name=B - 0021, Status__c=Paid}
12:34:42:056	USER_DEBUG	[28]DEBUG Billing Records are: B - 0021

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

Logs Tests Checkpoints Query Editor View State Progress Problems

Name Line Problem



Exercise 8

Created a Class to demonstrate constants in Apex

The screenshot shows the Salesforce Trailhead IDE interface. The top navigation bar includes File, Edit, Debug, Test, Workspace, Help, and tabs for est.apxc, CustomerTriggerTest.apxc, Log ApexTestHandler @22/02/2023, 11:59:18, studentGrades.apxc, Log executeAnonymous @22/02/2023, 13:05:07, CustomerTrigger.apxt, and DiscountClass.apxc.

The code editor displays the following Apex class:

```
1 public class DiscountClass {  
2     Decimal regularDiscount = 5.50;  
3     Decimal finalPrice;  
4     public Decimal calculateDiscount(Integer price){  
5         finalPrice = price - price*regularDiscount;  
6         System.debug('finalPrice: '+finalPrice);  
7         return finalPrice;  
8     }  
9 }  
10 }
```

An "Enter Apex Code" dialog box is open, containing the following code:

```
1 DiscountClass x = new DiscountClass();  
2 x.calculateDiscount(200);
```

Below the code editor is a log viewer with the following entries:

User	Application	Operation	Time	Status	Read	Size
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	23/02/2023, 11:53:49	Success	Unread	996 bytes
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	23/02/2023, 11:53:47	Insert failed. First exception on row ...	Unread	14.39 KB
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	23/02/2023, 11:53:44	Success	Unread	8.89 KB

The bottom of the interface features a toolbar with various icons for file operations, and a Mac-style dock at the very bottom.

The screenshot shows the Salesforce Trailhead IDE interface. The top navigation bar includes File, Edit, Debug, Test, Workspace, Help, and tabs for executeAnonymous @21/02/2023, 09:55:25, Log executeAnonymous @21/02/2023, 10:16:30, BillingObj.apxc, Log executeAnonymous @21/02/2023, 12:34:42, DiscountClass.apxc, and Log executeAnonymous @21/02/2023, 12:45:44.

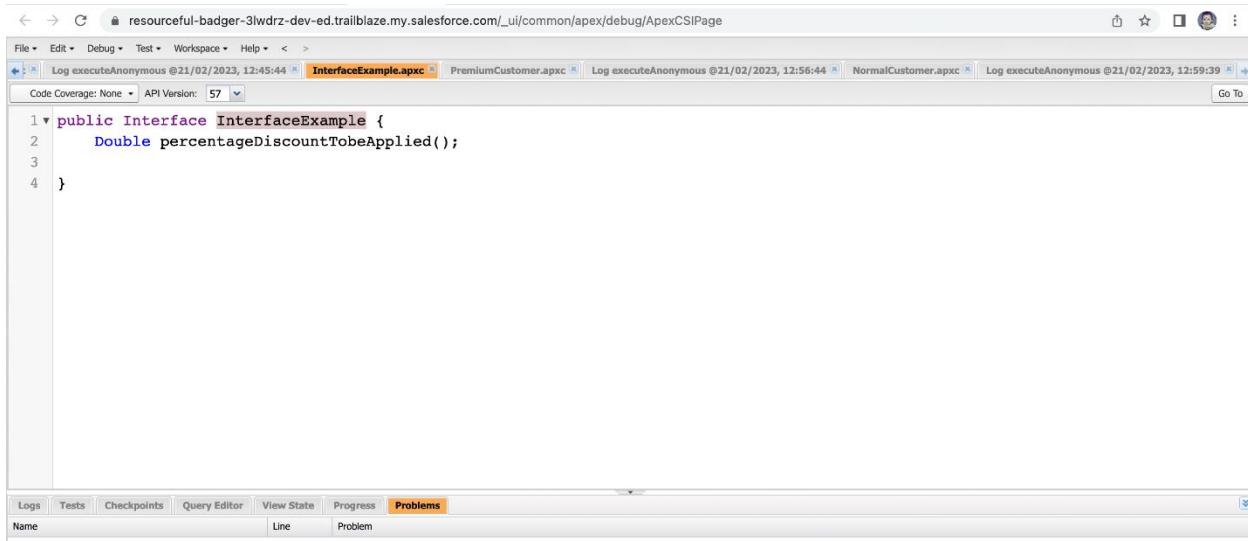
An "Execution Log" panel is open, showing the following log entry:

Timestamp	Event	Details
12:45:44.007	USER_DEBUG	[6]DEBUG finalPrice: -2250.00

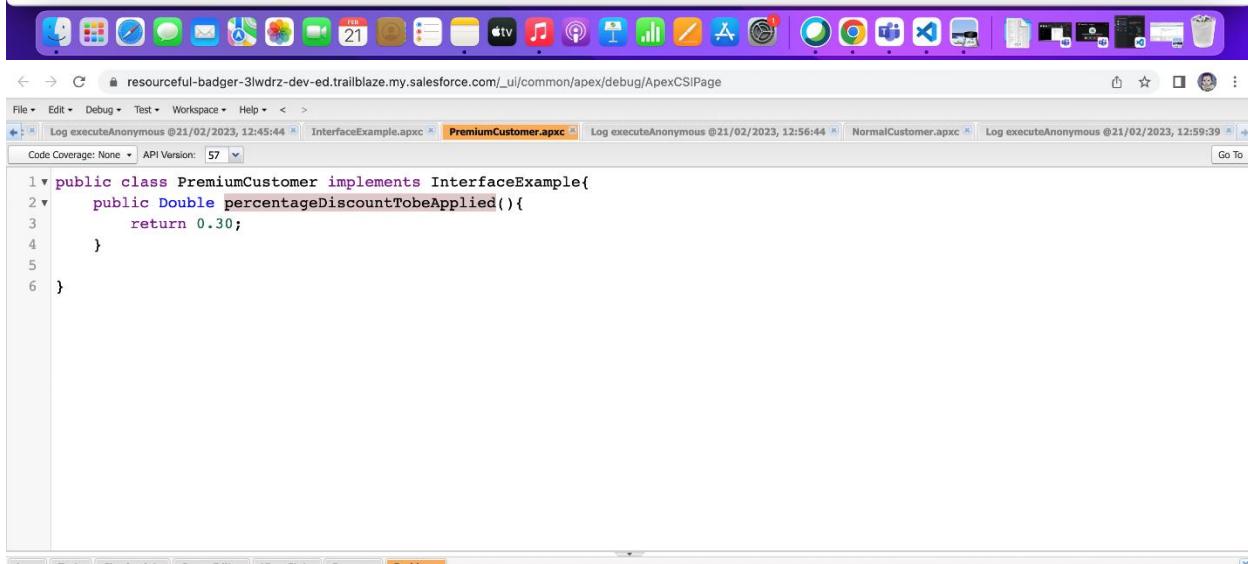
Below the log is a "Problems" tab, which is currently empty.

The bottom of the interface features a toolbar with various icons for file operations, and a Mac-style dock at the very bottom.

Exercise 9



```
1 public Interface InterfaceExample {
2     Double percentageDiscountToBeApplied();
3 }
4 }
```



```
1 public class PremiumCustomer implements InterfaceExample{
2     public Double percentageDiscountToBeApplied(){
3         return 0.30;
4     }
5 }
6 }
```

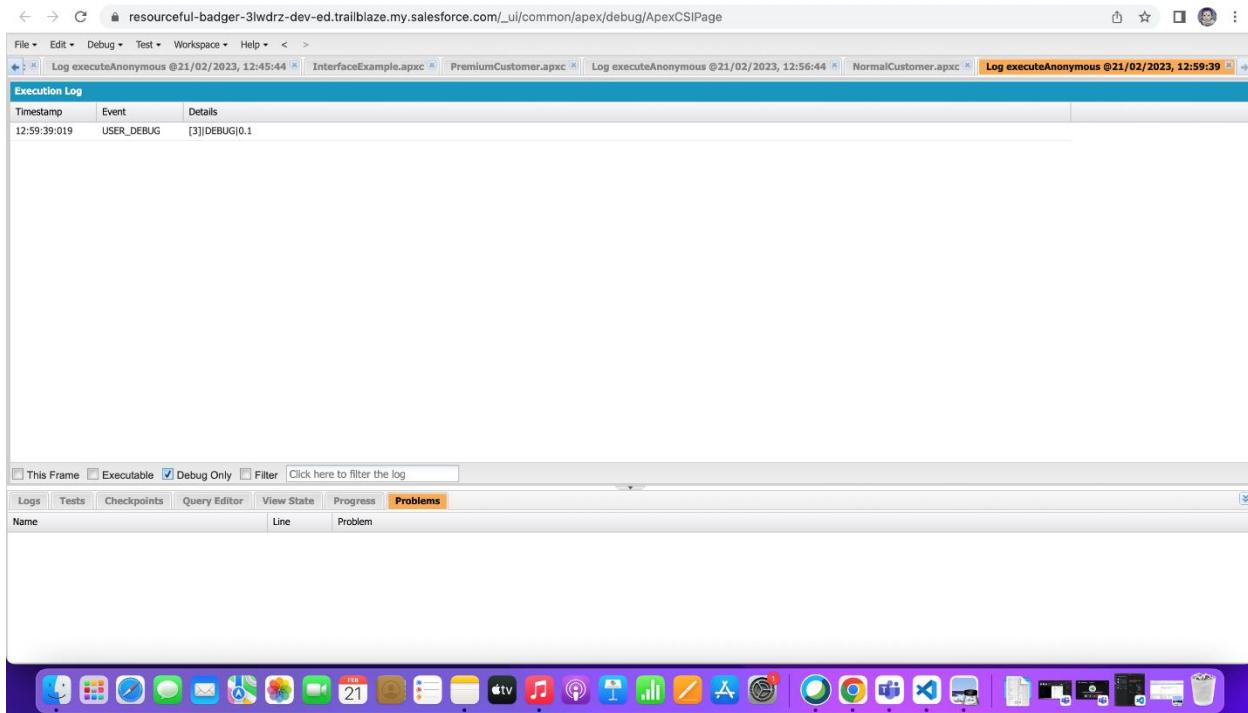


The screenshot shows the Salesforce Trailblaze IDE interface. At the top, there's a navigation bar with links like File, Edit, Debug, Test, Workspace, Help, and tabs for various Apex pages: jxc, Log executeAnonymous @21/02/2023, 12:34:42, DiscountClass.apxc, Log executeAnonymous @21/02/2023, 12:45:44, InterfaceExample.apxc, PremiumCustomer.apxc, and Log executeAnonymous @21/02/2023, 12:56:44. Below the navigation is a toolbar with icons for This Frame, Executable, and Debug Only, along with a Filter input field. The main area is titled "Execution Log" and contains a table with columns: Timestamp, Event, and Details. A single entry is shown: 12:56:44:020, USER_DEBUG, [3]DEBUG|0.3. At the bottom of the interface is a toolbar with tabs for Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems, with the Problems tab currently selected. The Problems tab displays a table with columns Name, Line, and Problem, which is currently empty.

This screenshot shows the Trailblaze IDE with the Code Editor tab active. The top navigation bar and tabs are identical to the previous screenshot. The main code editor area contains the following Java-like code:

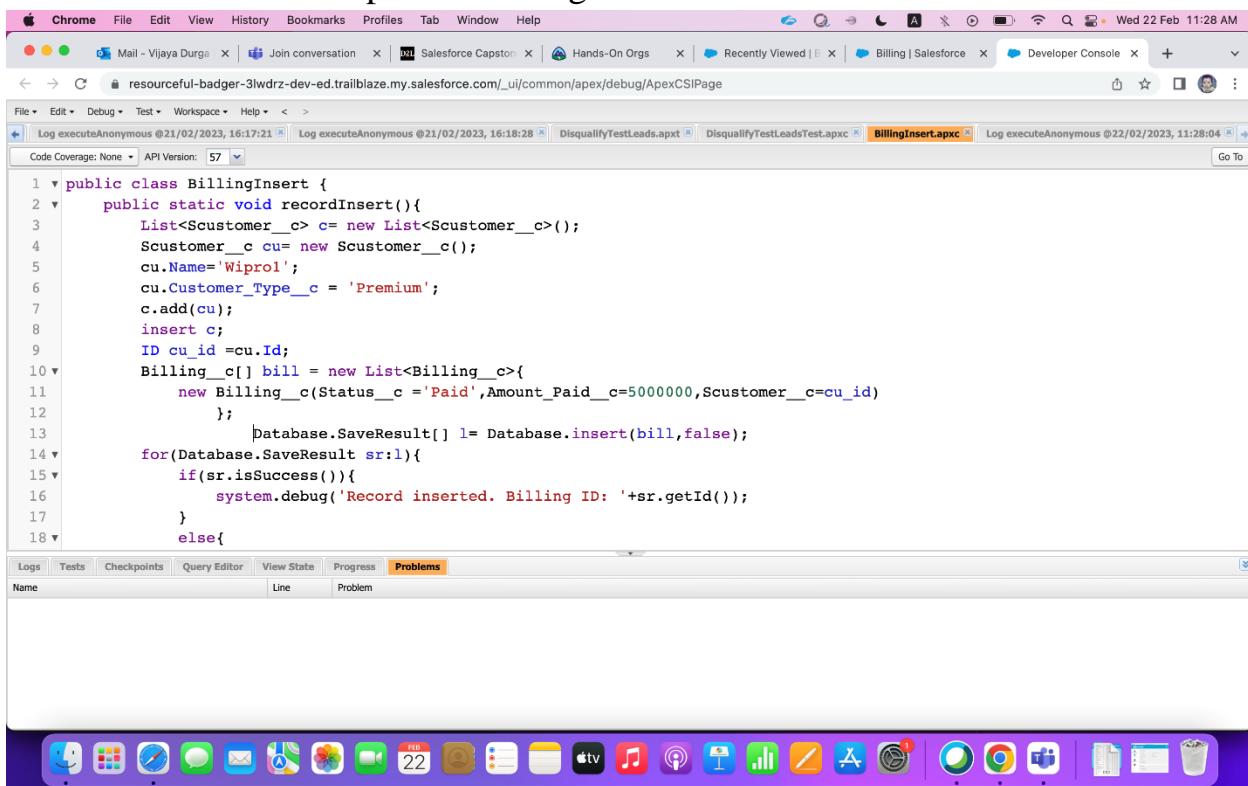
```
1 public class NormalCustomer implements InterfaceExample {
2     public Double percentageDiscountToBeApplied(){
3         return 0.10;
4     }
5 }
```

Below the code editor is a toolbar with tabs for Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems, with the Problems tab selected. The Problems tab is empty. The interface is set against a purple Mac OS X-style desktop background.



Exercise 10

Demo on DML Insert Operation Using Database Methods



A screenshot of a Mac desktop environment. The main focus is a Salesforce developer console window titled "BillingInsert.apxc". The code editor contains the following Apex code:

```
9 ID cu_id =cu.Id;
10 Billing_c[] bill = new List<Billing_c>{
11     new Billing_c(Status_c ='Paid',Amount_Paid_c=5000000,Scustomer_c=cu_id)
12 };
13 Database.SaveResult[] l= Database.insert(bill,false);
14 for(Database.SaveResult sr:l){
15     if(sr.isSuccess()){
16         system.debug('Record inserted. Billing ID: '+sr.getId());
17     }
18     else{
19         for(Database.Error e: sr.getErrors()){
20             system.debug(e.getStatusCode() + ': ' + e.getMessage());
21             system.debug('Billing fields which have error: '+e.getFields());
22         }
23     }
24 }
25 }
26 }
```

The tabs at the bottom of the developer console include "Logs", "Tests", "Checkpoints", "Query Editor", "View State", "Progress", and "Problems". The "Problems" tab is selected. Below the tabs is a search bar with "Name" and "Line" and "Problem" buttons.

A screenshot of a Mac desktop environment. The main focus is a Chrome browser window displaying the Salesforce developer console. The URL is "resourceful-badger-3lwdrz-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage". The tabs at the top of the browser include "Log executeAnonymous @21/02/2023, 16:17:21", "Log executeAnonymous @21/02/2023, 16:18:28", "DisqualifyTestLeads.apxt", "DisqualifyTestLeadsTest.apxc", "BillingInsert.apxc", and "Log executeAnonymous @22/02/2023, 11:28:04".

The developer console interface is identical to the one in the first screenshot, showing the same Apex code and execution log. The execution log table has one entry:

Timestamp	Event	Details
11:28:04:126	USER_DEBUG	[16]:DEBUG Record inserted. Billing ID: a042w00000xtWOMAA2

The tabs at the bottom of the developer console in the browser are "Logs", "Tests", "Checkpoints", "Query Editor", "View State", "Progress", and "Problems". The "Problems" tab is selected. Below the tabs is a search bar with "Name" and "Line" and "Problem" buttons.

Exercise 11

Displaying Records According to the According to the required conditions

The screenshot shows the Salesforce Apex CS Page interface. At the top, there are tabs for DisqualifyTestLeads.apxt and DisqualifyTestLeadstest.apxc. Below the tabs, a message says "Opportunity@7:14 PM". A query is displayed:

```
Select AccountId, Amount, Name, StageName, Account.Industry, Account.website From Opportunity Where Account.Industry = 'Energy' AND Account.AnnualRevenue > 5000
```

The "Query Results - Total Rows: 10" section shows a table with columns: AccountId, Amount, Name, StageName, Account.Industry, and Account.Website. The results are as follows:

AccountId	Amount	Name	StageName	Account.Industry	Account.Website
0012w00001Kvfk8AAJ	125000	United Oil Office Portable Generators	Negotiation/Review	Energy	http://www.uos.com
0012w00001Kvfk8AAJ	270000	United Oil Refinery Generators	Proposal/Price Quote	Energy	http://www.uos.com
0012w00001Kvfk8AAJ	120000	United Oil SLA	Closed Won	Energy	http://www.uos.com
0012w00001Kvfk8AAJ	270000	United Oil Installations	Negotiation/Review	Energy	http://www.uos.com
0012w00001Kvfk8AAJ	270000	United Oil Installations	Closed Won	Energy	http://www.uos.com
0012w00001Kvfk8AAJ	915000	United Oil Refinery Generators	Closed Won	Energy	http://www.uos.com
0012w00001Kvfk8AAJ	235000	United Oil Installations	Closed Won	Energy	http://www.uos.com
0012w00001Kvfk8AAJ	440000	United Oil Emergency Generators	Closed Won	Energy	http://www.uos.com
0012w00001Kvfk8AAJ	120000	United Oil Standby Generators	Closed Won	Energy	http://www.uos.com
0012w00001Kvfk8AAJ	675000	United Oil Plant Standby Generators	Needs Analysis	Energy	http://www.uos.com

Below the results, there is a "Query Grid" section with buttons for Save Rows, Insert Row, Delete Row, and Refresh Grid. The "Logs" tab is selected in the navigation bar. The query editor contains the same DML statement. The history panel shows the query was executed.

Exercise 12

Created a Trigger for Billing Named Customer Trigger

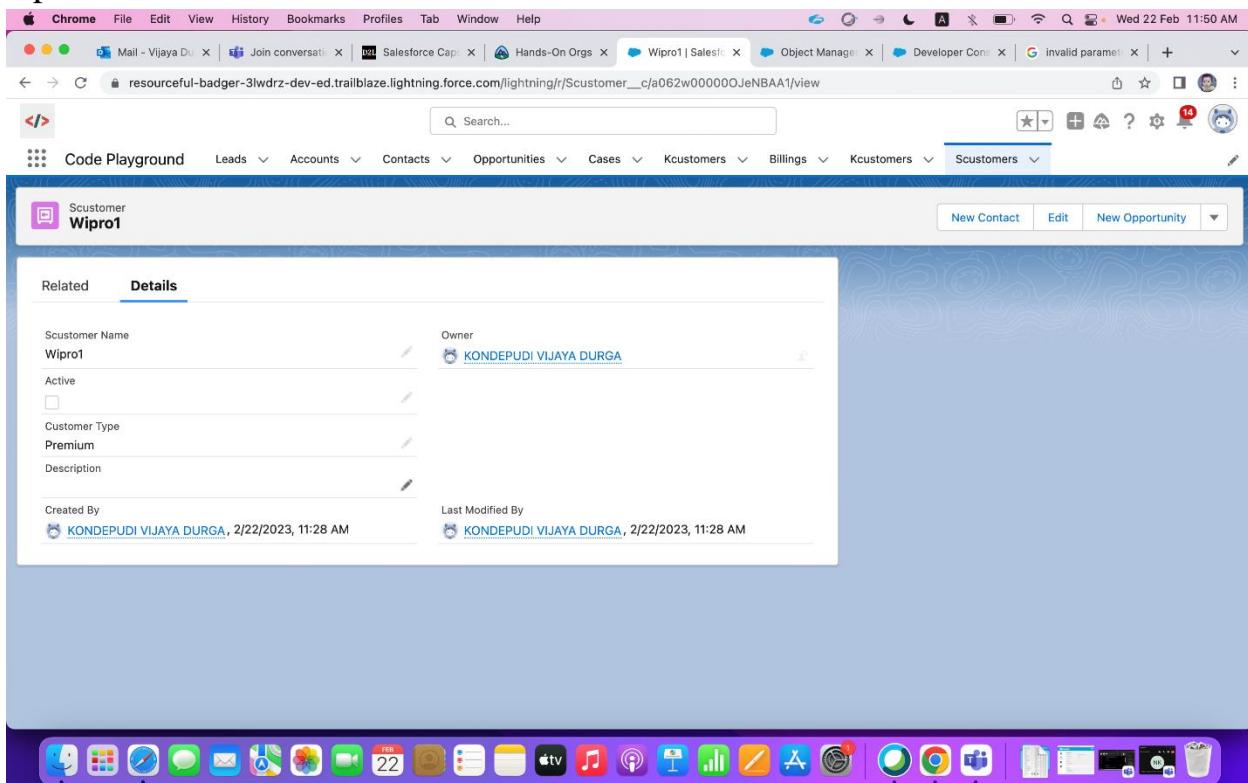
The screenshot shows the Salesforce Apex CS Page interface. At the top, there are tabs for log executeAnonymous @21/02/2023, 16:16:22, Log executeAnonymous @21/02/2023, 16:17:21, Log executeAnonymous @21/02/2023, 16:18:28, DisqualifyTestLeads.apxt, DisqualifyTestLeadsTest.apxc, and CustomerTrigger.apxt. The "CustomerTrigger.apxt" tab is selected.

The code editor displays the following Apex trigger:

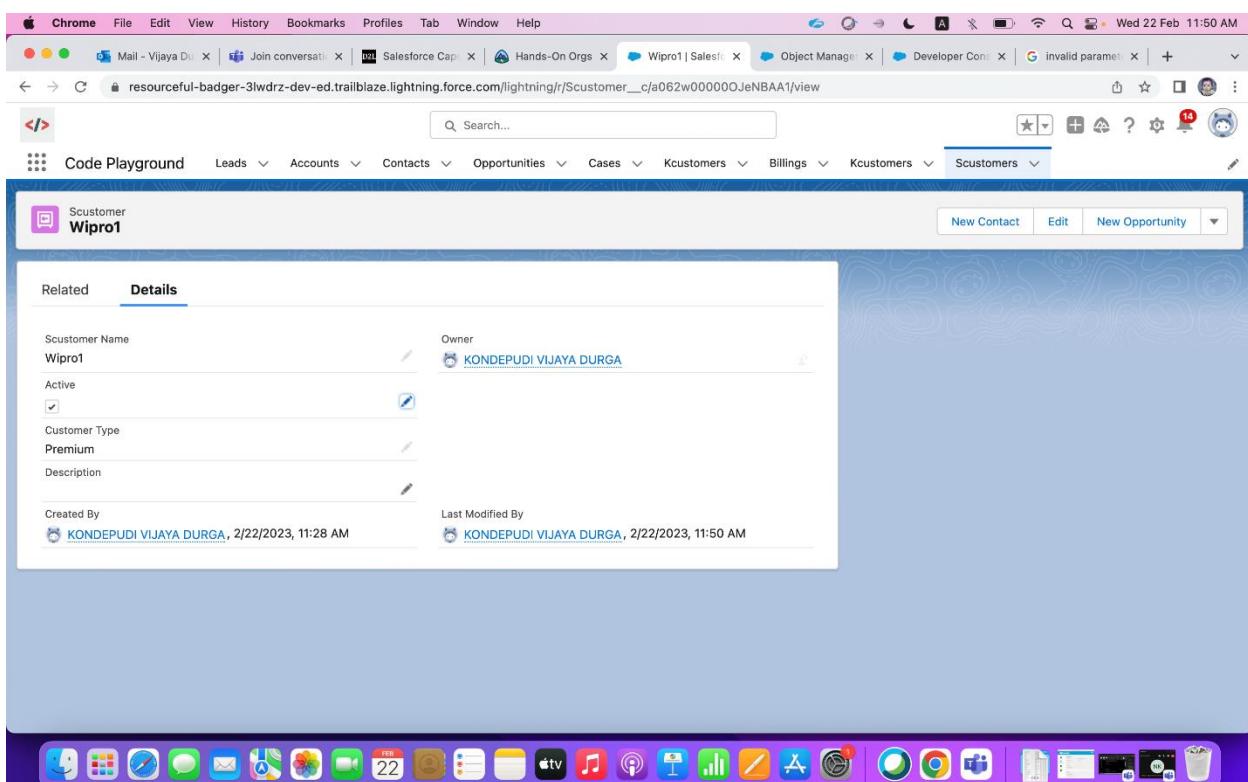
```
trigger CustomerTrigger on Scustomer__c (after update) {
    if(Trigger.isUpdate){
        List<Scustomer__c> c=Trigger.new;
        for(Scustomer__c sc:c){
            if(sc.Active__c == True){
                Billing__c b=new Billing__c();
                b.Status__c='Paid';
                b.Amount_Paid__c=1000000 ;
                b.Scustomer__c='a062w000000JeNBAA1';
                insert b;
            }
        }
    }
}
```

Below the code editor, there are tabs for Logs, Progress, and Problems. The toolbar at the bottom includes various application icons.

Updated Salesforce Customer from in-active to active



The screenshot shows a Salesforce Lightning interface for a customer record named 'Wipro1'. The 'Details' tab is selected. The 'Active' field is checked (unchecked in the image), and the 'Customer Type' is listed as 'Premium'. The record was created by 'KONDEPUDI VIJAYA DURGA' on 2/22/2023 at 11:28 AM and last modified by the same user on the same date and time.



The screenshot shows the same Salesforce Lightning interface for the 'Wipro1' customer record. The 'Active' checkbox is now checked, indicating the customer is active. All other fields remain the same as in the previous screenshot.

New Record Created in Billing Object with Salesforce as Customer

Billing
B - 0026

Related Details

Bill Number
B - 0026

Amount Paid
₹10,00,000

Customer Type
Scustomer
Wipro1

Status
Paid

Created By
KONDEPUDI VIJAYA DURGA, 2/22/2023, 11:50 AM

Last Modified By
KONDEPUDI VIJAYA DURGA, 2/22/2023, 11:50 AM

Exercise 13

Created a Test class for CustomTrigger

```
1 @IsTest
2 public class CustomerTriggerTest {
3     @isTest static void custTest(){
4         List<Scustomer__c> c=new List<Scustomer__c>();
5         Scustomer__c cu= new Scustomer__c();
6         cu.Name='Wipro1';
7         cu.Customer_Type__c = 'Premium';
8         if(cu.Active__c == True){
9             Test.startTest();
10            Billing__c b = new Billing__c();
11            b.Status__c='Paid';
12            b.Amount_Paid__c=1000000 ;
13            Test.stopTest();
14        }
15    }
16 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
KONDEPUDI VIJAYA DURGA	Unknown	/services/data/v57.0/tooling/runTest...	22/02/2023, 12:27:22	Success	Unread	2.83 KB
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	22/02/2023, 12:01:48	Success	Unread	2.83 KB
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	22/02/2023, 12:01:48	Insert failed. First exception on row ...	Unread	14.28 KB
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	22/02/2023, 12:01:48	Success	Unread	996 bytes

Exercise14

Created a Trigger for Leads Named DisqualifyTestLeads

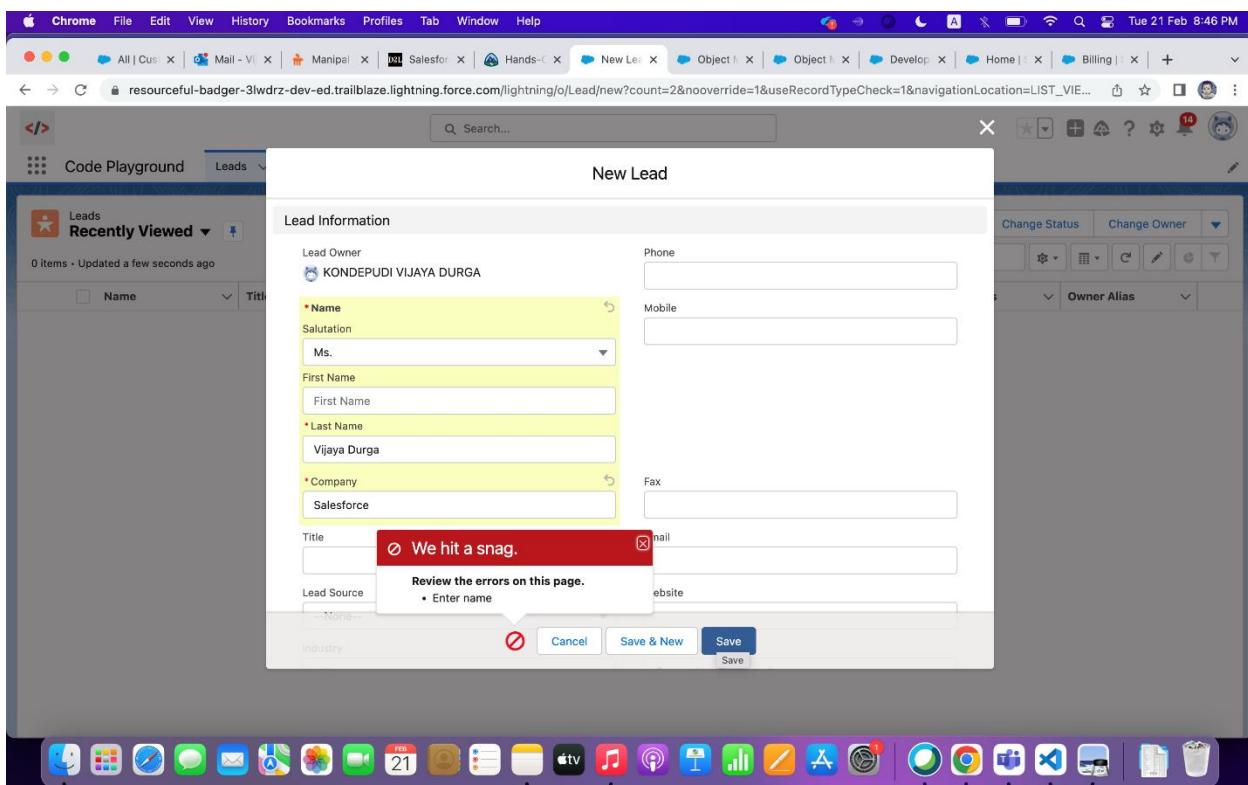
The screenshot shows the Salesforce IDE interface. The top navigation bar includes File, Edit, Debug, Test, Workspace, Help, and tabs for DisqualifyTestLeads.apxt and Opportunity@7:14 PM. Below the tabs, the code editor displays the following Apex trigger:

```
1 trigger DisqualifyTestLeads on Lead (after insert) {
2     List<Lead> l= new List<Lead>();
3     for (Lead mylead: Trigger.new){
4         if(mylead.FirstName=='test' && mylead.LastName.length()!=0 || mylead.LastName == 'test' && mylead.FirstName.length()!=0){
5             System.debug(mylead.FirstName +' '+mylead.LastName+' '+Will be Disqualified');
6             l.add(mylead);
7         }
8         if(mylead.FirstName ==null){
9             mylead.addError('Enter name');
10        }
11    }
12    for(lead mylead2:l){
13        mylead2.Status ='Disqualified';
14    }
15 }
```

Below the code editor is the Logs tab, which displays the following log entries:

User	Application	Operation	Time	Status	Read	Size
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	2/25/2023, 7:35:39 PM	Insert failed. First exception on row 0; ...	Unread	20.16 KB
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	2/25/2023, 7:35:39 PM	Success	Unread	8.88 KB
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	2/25/2023, 7:35:39 PM	Success	Unread	1009 bytes

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



Exercise 15

Created a test class for DisqualifyTestLeads trigger

The screenshot shows the Salesforce IDE interface. The top navigation bar includes File, Edit, Debug, Test, Workspace, Help, and a Go To button. The current file is DisqualifyTestLeads.apxt. The code editor contains the following Apex trigger:

```
1 * trigger DisqualifyTestLeads on Lead (after insert) {
2     List<Lead> l= new List<Lead>();
3     for(Lead mylead: Trigger.new){
4         if(mylead.FirstName=='test' && mylead.FirstName.length()!=0 || mylead.LastName == 'test' && mylead.LastName.length()!=0){
5             System.debug(mylead.FirstName +' '+mylead.LastName+' '+'Will be Disqualified');
6             l.add(mylead);
7         }
8         if(mylead.FirstName ==null){
9             mylead.addError('Enter name');
10        }
11    }
12    for(Lead mylead2:l){
13        mylead2.Status ='Disqualified';
14    }
15 }
```

Below the code editor is a log table with the following data:

User	Application	Operation	Time	Status	Read	Size
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	2/25/2023, 7:35:39 PM	Insert failed. First exception on row 0; ...	Unread	20.16 KB
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	2/25/2023, 7:35:39 PM	Success	Unread	8.88 KB
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	2/25/2023, 7:35:39 PM	Success	Unread	1009 bytes

At the bottom of the log table is a "Filter" input field.

The screenshot shows the Salesforce IDE interface. The top navigation bar includes File, Edit, Debug, Test, Workspace, Help, and a Run Test/Go To button. The current file is DisqualifyTestLeadsTest.apxt. The code editor contains the following Apex test class:

```
1 @isTest
2 public class DisqualifyTestLeadsTest {
3     @isTest
4     private static void insertData(){
5         List<Lead> leadlist = new List<Lead>();
6         Lead l = new Lead();
7         l.FirstName = 'Test';
8         l.LastName = 'Test';
9         l.Company = 'Test';
10        leadlist.add(l);
11        Test.startTest();
12        insert leadlist;
13        Test.stopTest();
14        Lead updateLead =[Select FirstName,LastName,Company From Lead order by CreatedDate];
15        system.Assert(updateLead.LastName!= Null, 'Record cannot be created');
16        Database.SaveResult res = Database.insert(l,false);
17        System.assertEquals('Will be Disqualified', res.getErrors()[0].getMessage());
18    }
}
```

Below the code editor is a log table with the following data:

User	Application	Operation	Time	Status	Read	Size
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	21/02/2023, 23:05:05	Insert failed. First exception on row ...	Unread	14.4 KB
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	21/02/2023, 23:05:05	Success	Unread	997 bytes
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	21/02/2023, 21:02:43	Success	Unread	997 bytes
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	21/02/2023, 21:02:03	Success	Unread	996 bytes
KONDEPUDI VIJAYA DURGA	Browser	/aura	21/02/2023, 20:46:19	Success	Unread	3.61 KB
KONDEPUDI VIJAYA DURGA	Browser	/aura	21/02/2023, 20:45:33	Success	Unread	4.27 KB

At the bottom of the log table is a "Filter" input field. The bottom of the screen shows the Mac OS X dock with various application icons.

The screenshot shows the Salesforce Trailhead exercise page for the 'DisqualifyTestLeads.apxt' test. The browser title is 'resourceful-badger-3lwdrz-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage'. The page displays the execution log with two entries:

Timestamp	Event	Details
23:05:05:127	USER_DEBUG	[5] DEBUG Test Test Will be Disqualified
23:05:05:233	USER_DEBUG	[5] DEBUG Test Test Will be DisQualified

Below the log, there is a table of logs with columns: User, Application, Operation, Time, Status, Read, and Size. The logs show various activities from the user 'KONDEPUDI VIJAYA DURGA' and the browser.

Exercise 16

Created a Visualforce Page OppView and displayed four apex: outputfields

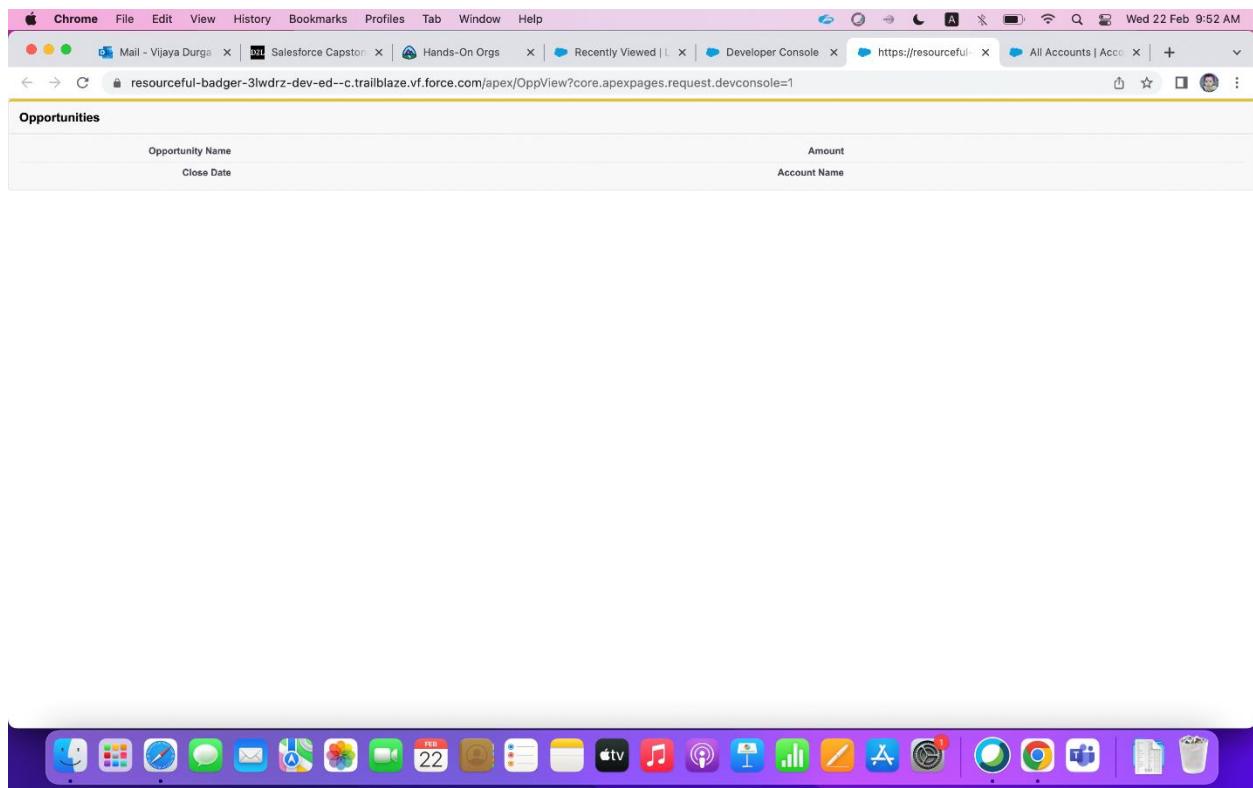
The screenshot shows the Salesforce Trailhead exercise page for the 'OppView.vfp' test. The browser title is 'resourceful-badger-3lwdrz-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage'. The page displays the code editor with the following Apex code:

```

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

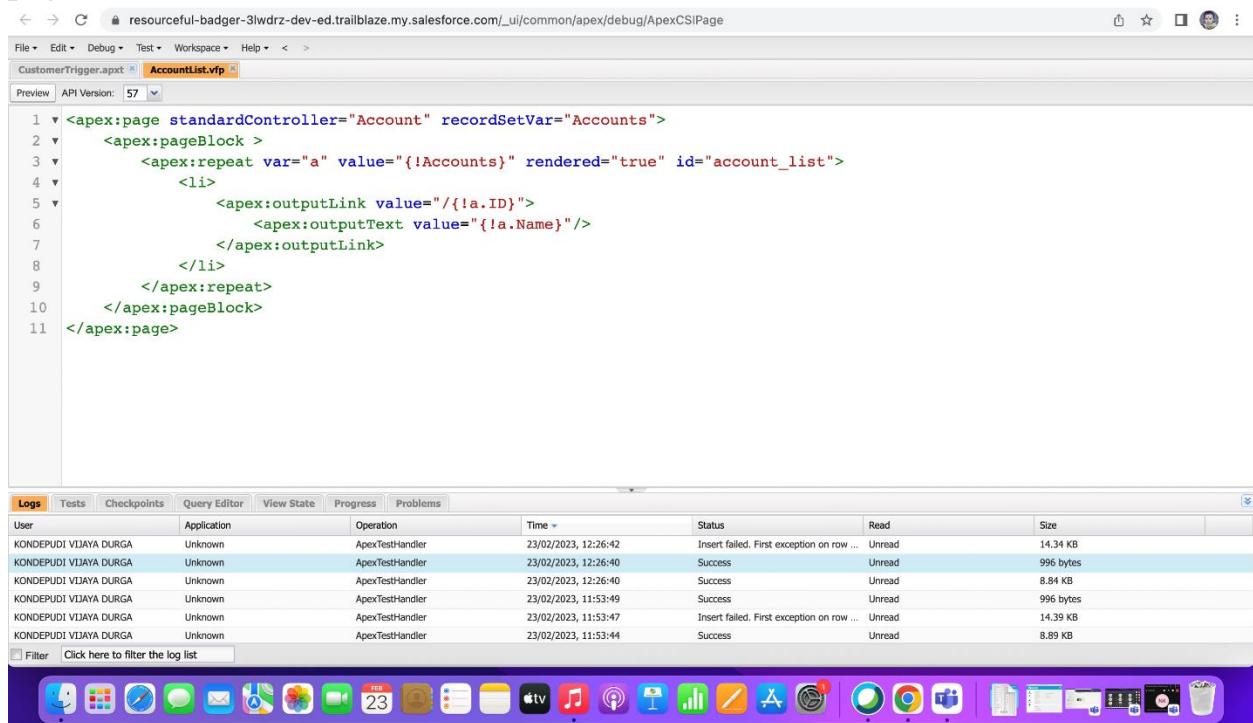
```

Below the code editor, there is a table of logs with columns: User, Application, Operation, Time, Status, Read, and Size. The logs show various activities from the user 'KONDEPUDI VIJAYA DURGA' and the browser.



Exercise 17

Created a Visualforce Page that shows a list of Accounts linked to their record pages



A screenshot of a web browser window. The address bar shows the URL: https://resourceful-badger-3lwdrz-dev-ed--c.trailblaze.vf.force.com/apex/AccountList?core.apexpages.request.devconsole=1. The page content lists various companies:

- Burlington Textiles Corp of America
- Dickenson plc
- Edge Communications
- Express Logistics and Transport
- GenePoint
- Grand Hotels & Resorts Ltd
- Pyramid Construction Inc.
- Sample Account for Entitlements
- Siemens
- United Oil & Gas Corp.
- United Oil & Gas, Singapore
- United Oil & Gas, UK
- University of Arizona



Exercise 18

Created a VF page that uses an Apex class to display a list of cases with the status of 'New'

A screenshot of the Salesforce Developer Console. The top navigation bar shows the URL: https://resourceful-badger-3lwdrz-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage. The tabs include File, Edit, Debug, Test, Workspace, Help, and a preview of the code. The code editor contains the following Apex code:

```
1 <apex:page controller="NewCaseListController">
2   <apex:repeat var="case" value="{!NewCases}">
3     <li>
4       <apex:outputLink value="/{!case.id}">{!case.id}</apex:outputLink>
5       {!case.CaseNumber}
6     </li>
7   </apex:repeat>
8 </apex:page>
```

Below the code editor is a log viewer with the following entries:

User	Application	Operation	Time	Status	Read	Size
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	23/02/2023, 12:26:42	Insert failed. First exception on row ...	Unread	14.34 KB
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	23/02/2023, 12:26:40	Success	Unread	996 bytes
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	23/02/2023, 12:26:40	Success	Unread	8.84 KB
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	23/02/2023, 11:53:49	Success	Unread	996 bytes
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	23/02/2023, 11:53:47	Insert failed. First exception on row ...	Unread	14.39 KB
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	23/02/2023, 11:53:44	Success	Unread	8.89 KB

At the bottom of the screen is the Mac OS X Dock.

← → C 🔒 resourceful-badger-3lwdrz-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

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

CustomerTriggerTest.apxc 7072w00008Kgxoa Log ApexTestHandler @22/02/2023, 11:59:18 studentGrades.apxc Log executeAnonymous @22/02/2023, 13:05:07 CustomerTrigger.apxc NewCaseListController.apxc Go To

Code Coverage: None API Version: 57

```
1 public class NewCaseListController {
2     List<case> newcase=new list<case>();
3     public list<case> GetNewCases()
4     {
5         newcase =[Select Id,CaseNumber from case where status='New'];
6         return newcase;
7     }
8 }
```

Log Tests Checkpoints Query Editor View State Progress Problems

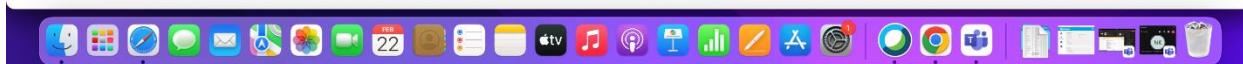
User	Application	Operation	Time	Status	Read	Size
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	23/02/2023, 12:36:34	Success	Unread	996 bytes
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	23/02/2023, 12:36:33	Success	Unread	8.8 KB
KONDEPUDI VIJAYA DURGA	Unknown	ApexTestHandler	23/02/2023, 12:36:32	Insert failed. First exception on row ...	Unread	14.28 KB

Filter Click here to filter the log list



← → C 🔒 resourceful-badger-3lwdrz-dev-ed--c.trailblaze.vf.force.com/apex/NewCaseListController?core.apexpages.request.devconsole=1

- 5002w0000000f0dPAAO 00001002
- 5002w0000000f0dAA 00001016
- 5002w0000000f0dIAAA 00001024



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](#)