



Capstone Project Report On “ Travel Approval App “

Submitted by:

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Date: 28/02/2023

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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 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.

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

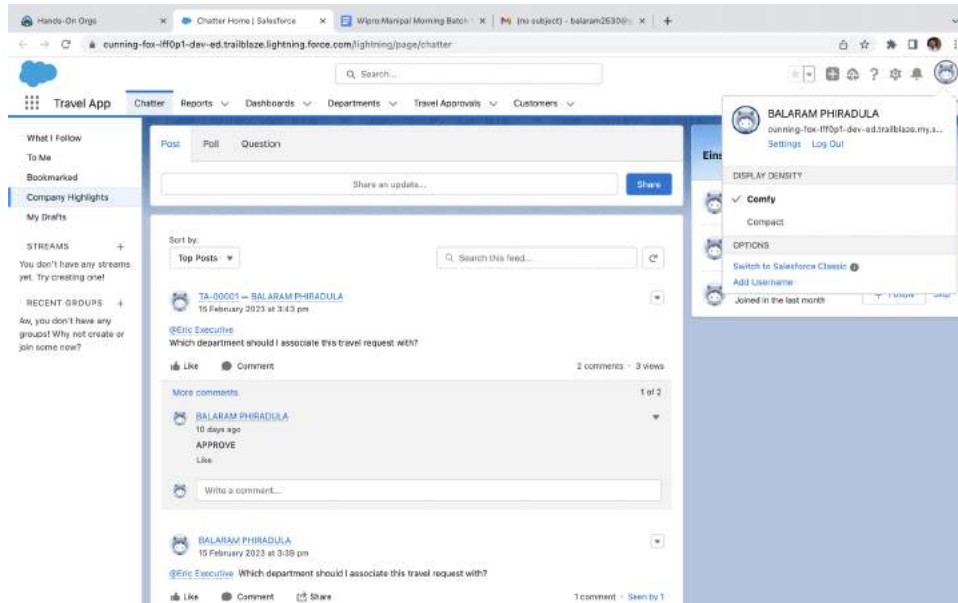
OR

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

Capstone Project Module 1

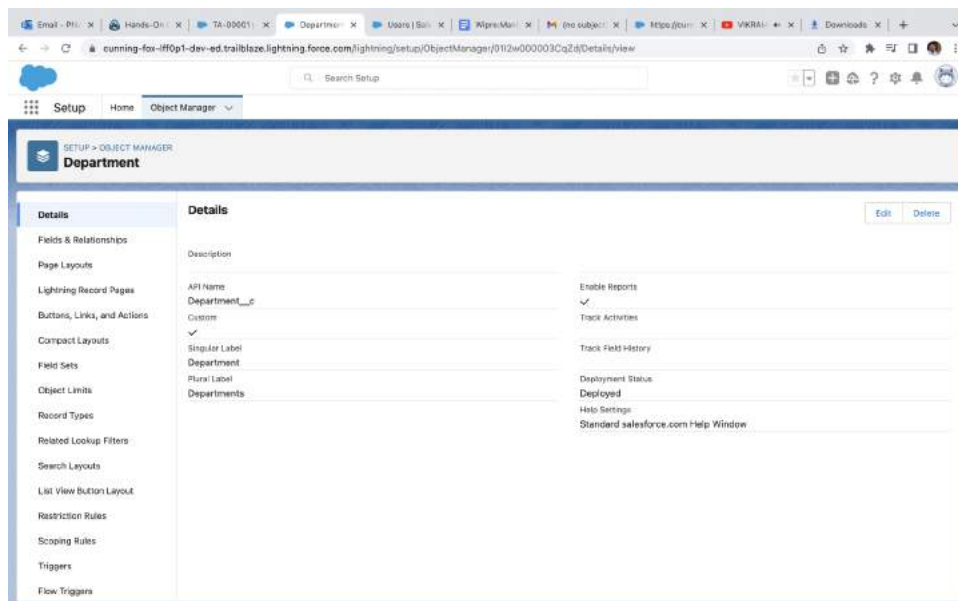
Exercise –1

Step – 1



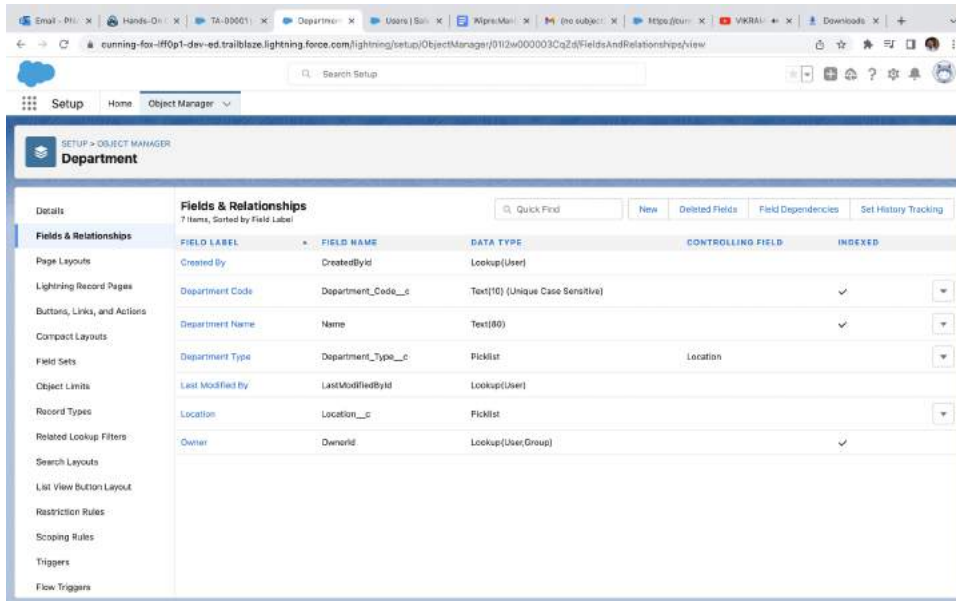
Step –2

Created Department Object



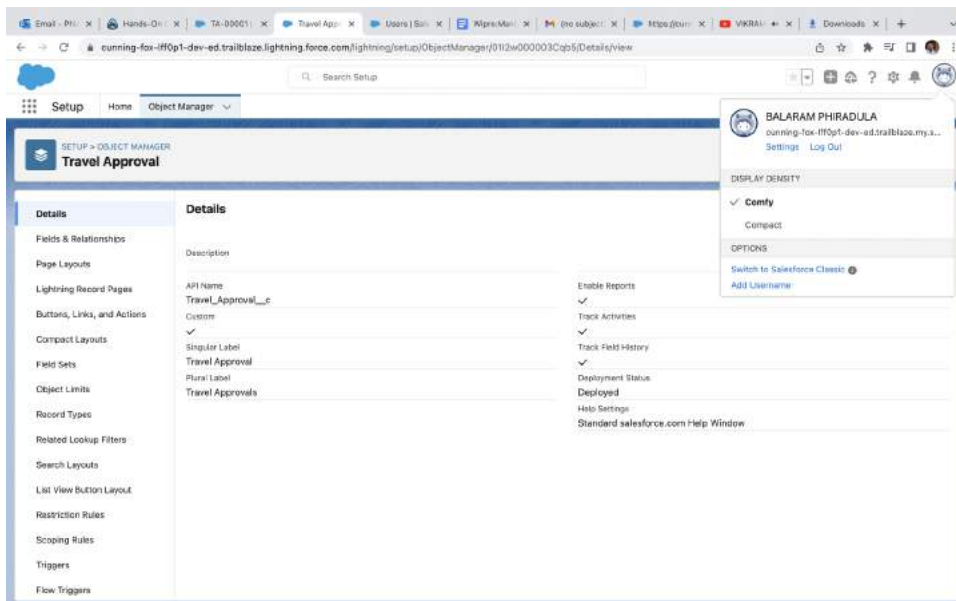
Step – 3

Created all the required Custom fields

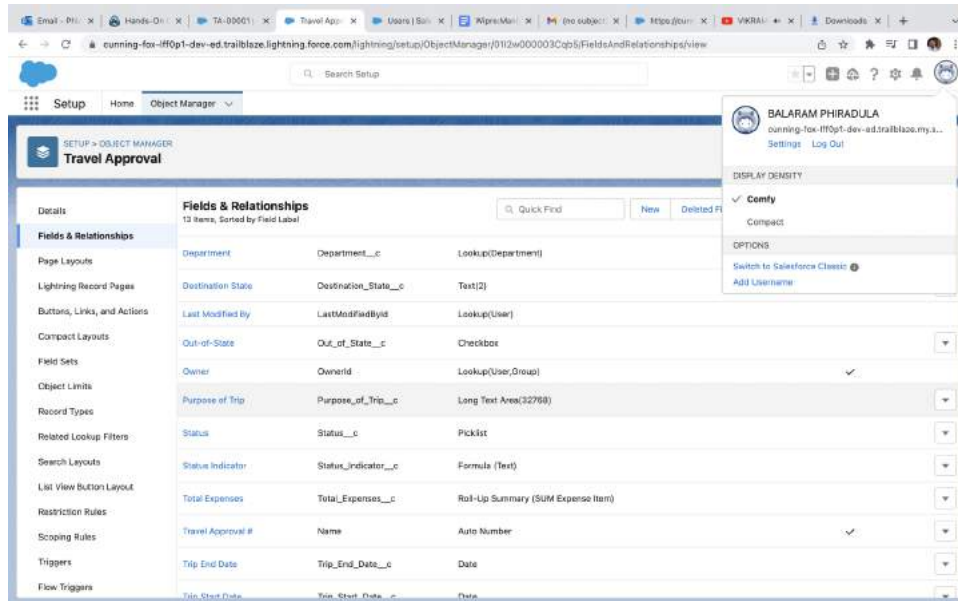


Step – 4

Created Travel Approval Object

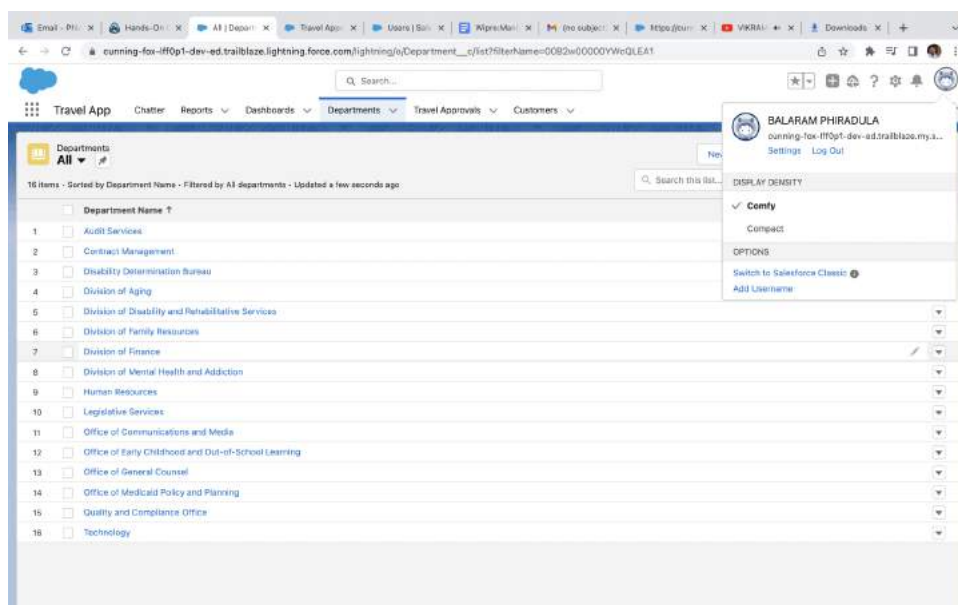


Created the required fields



Step – 5

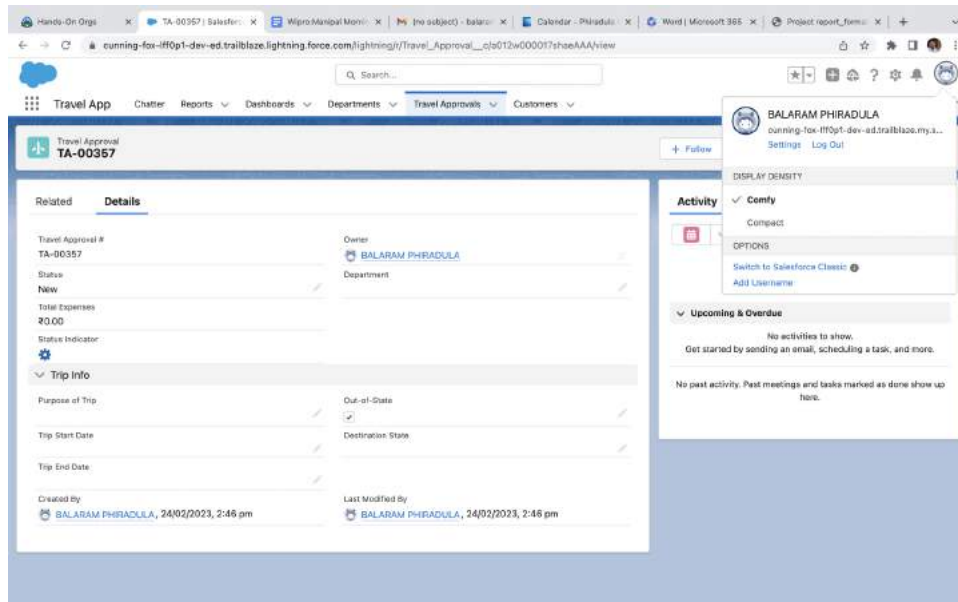
Imported Department.CSV file using Data Import Wizard



Exercise –2

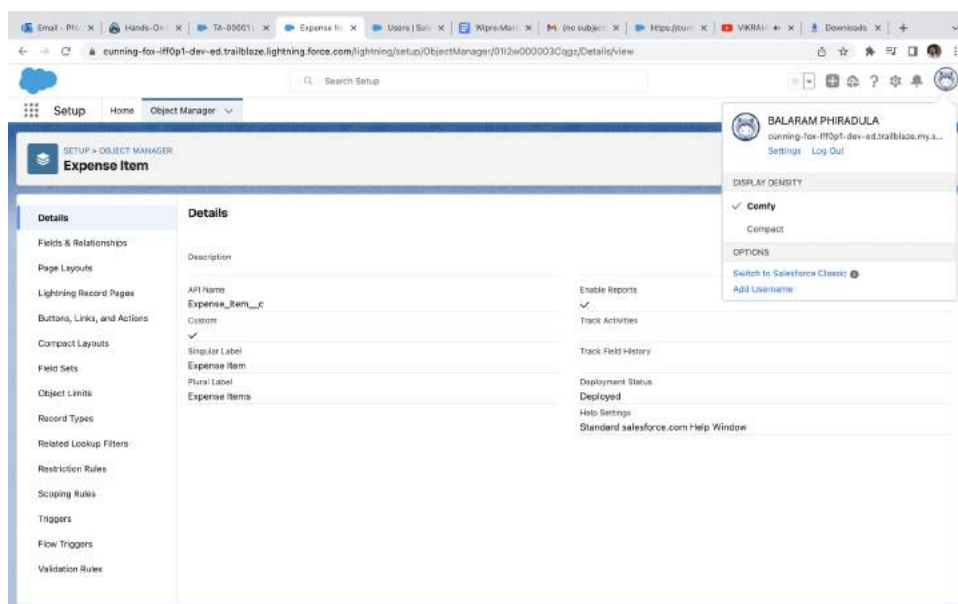
Step – 1

Created Travel Approval record



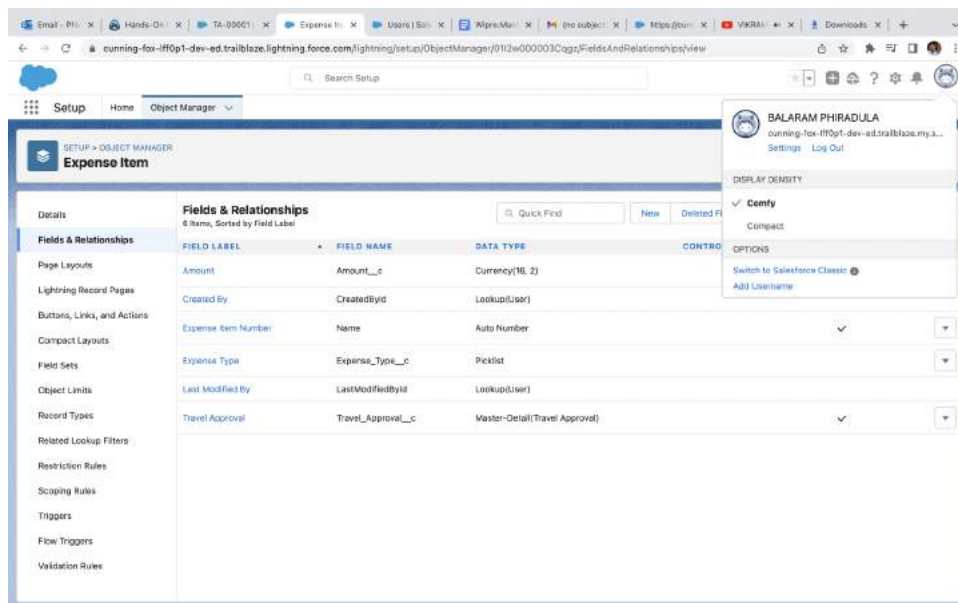
Step –2

Created Expense Item Custom Object



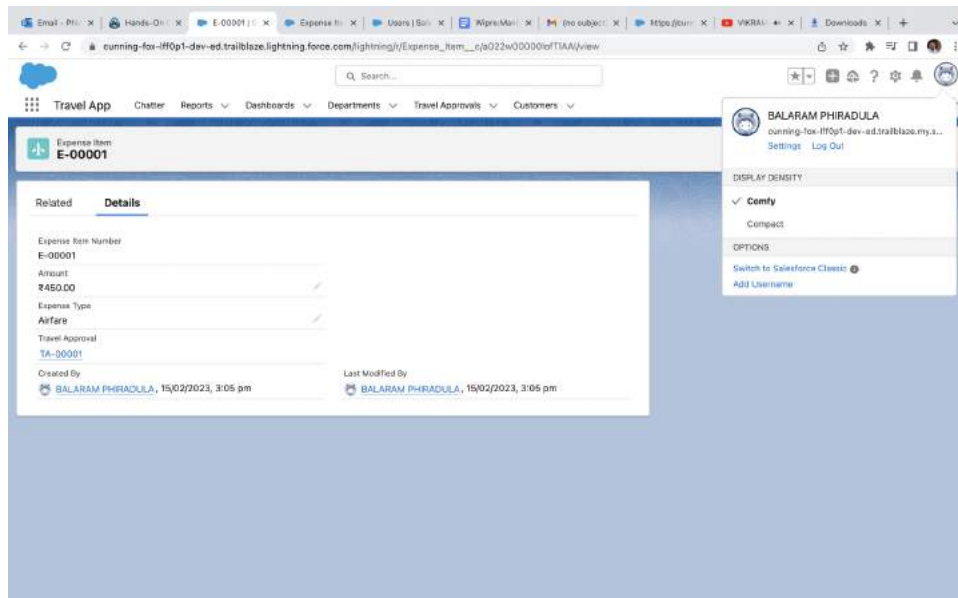
CStep –3

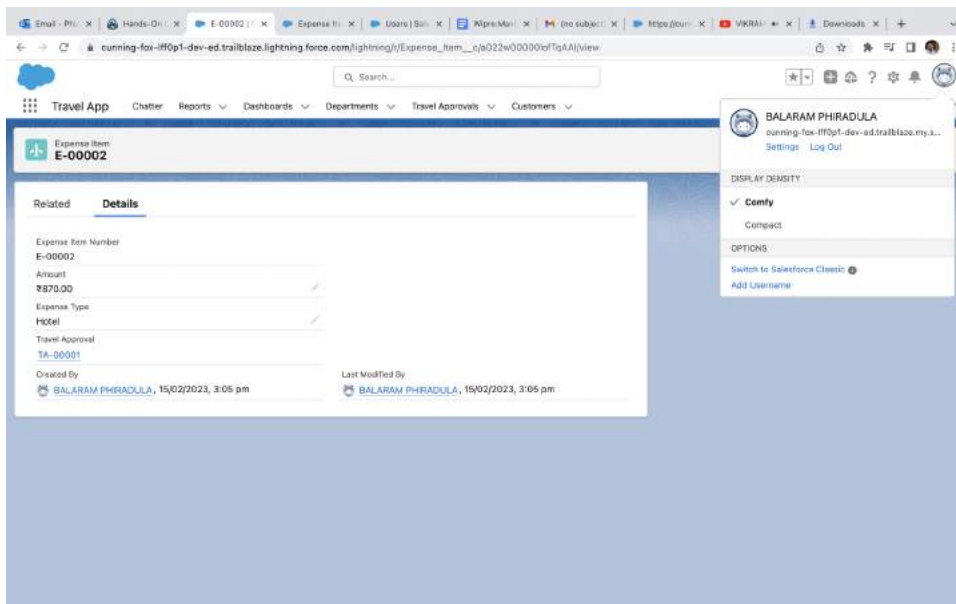
Created Custom fields



Step – 4

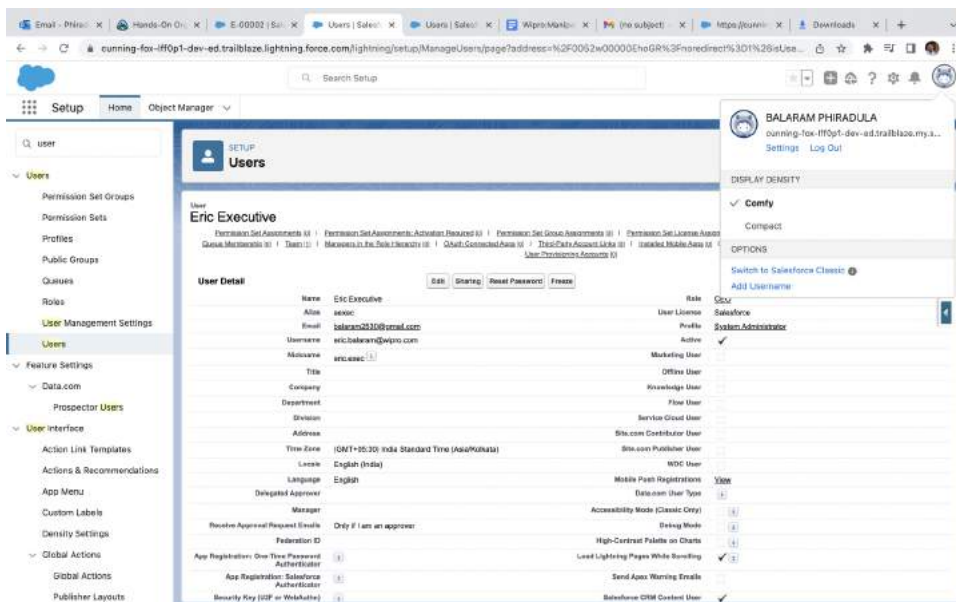
Create Records





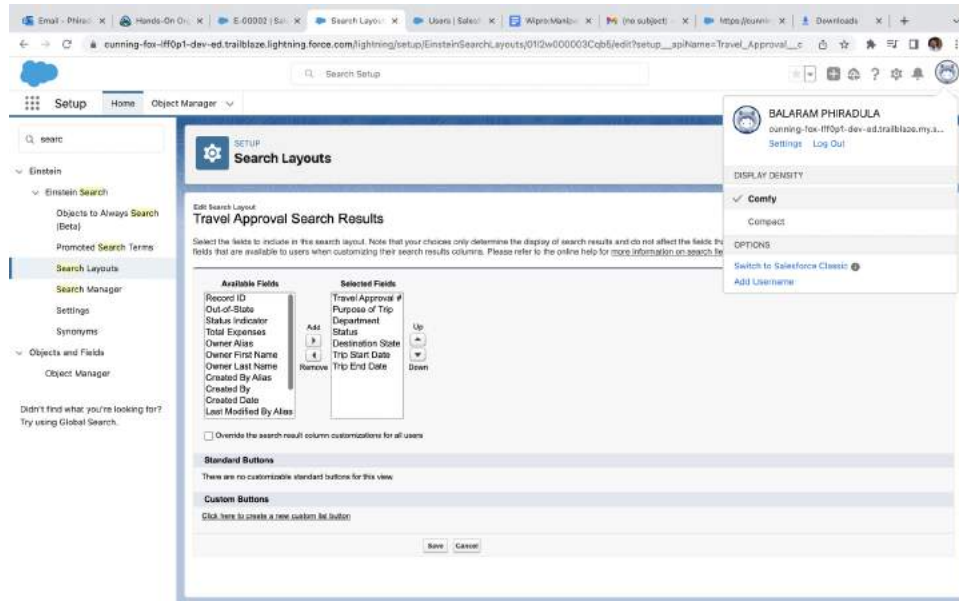
Step – 5

Created User Eric Executive



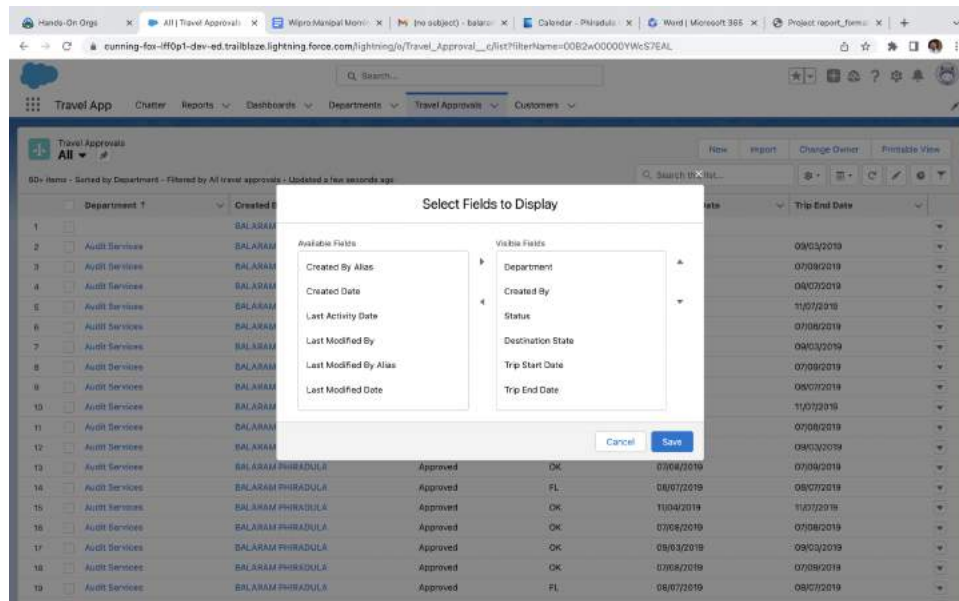
Step –6

Customized the Travel Approval Default Search



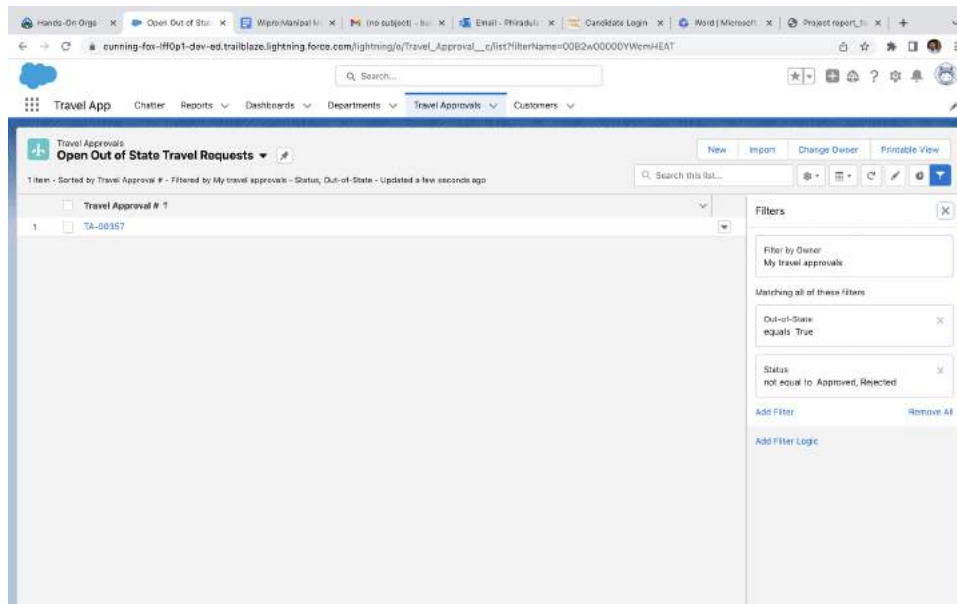
Step –7

Selected all the fields to Display



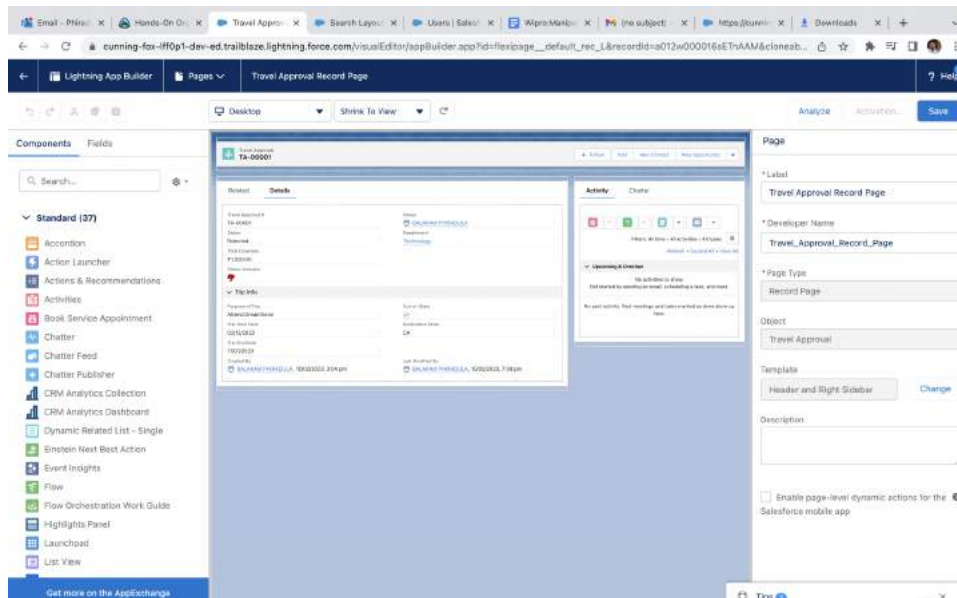
Step – 8

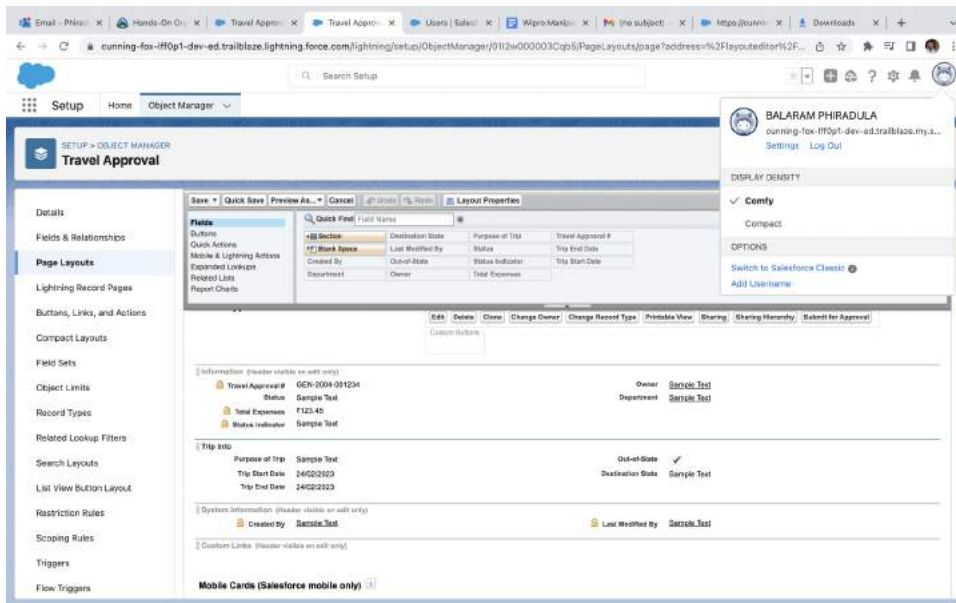
Created Travel Approval custom list view Open Out of State Travel Requests



Step – 9

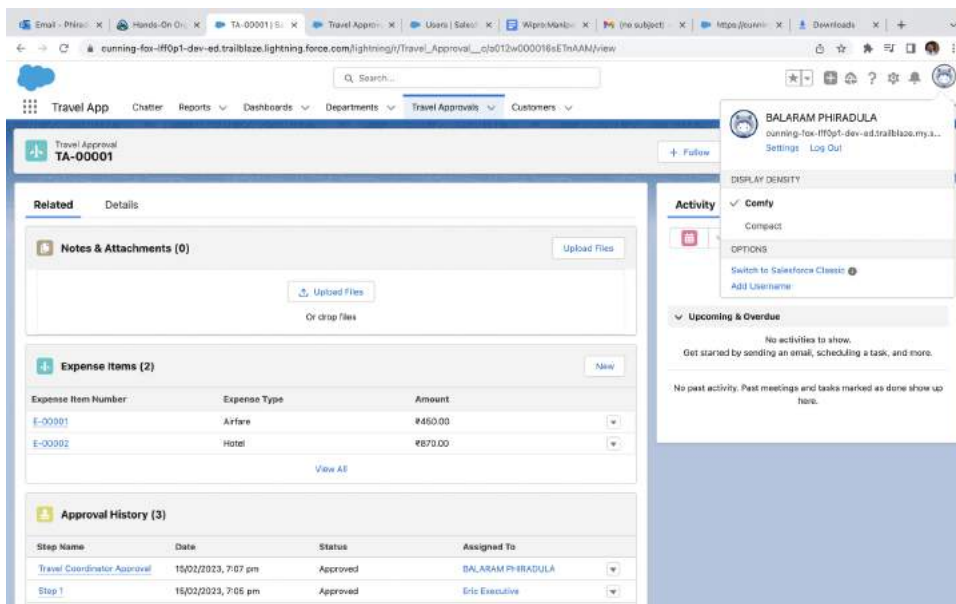
Customized Travel Approval Page Layout





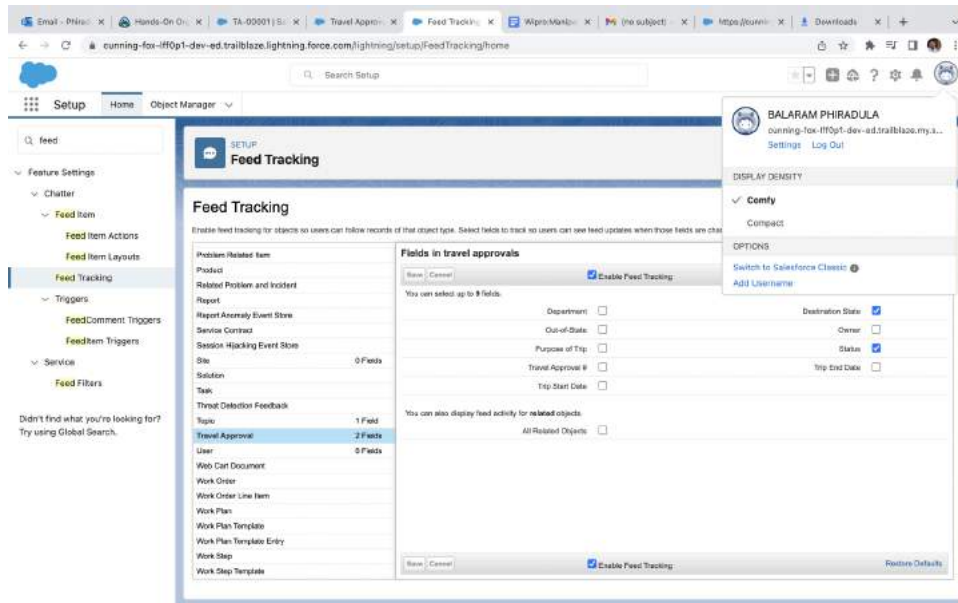
Step – 10

Customized the Expense Item Related list under Travel Approval Page Layout



Step – 11

Enable Field Tracking

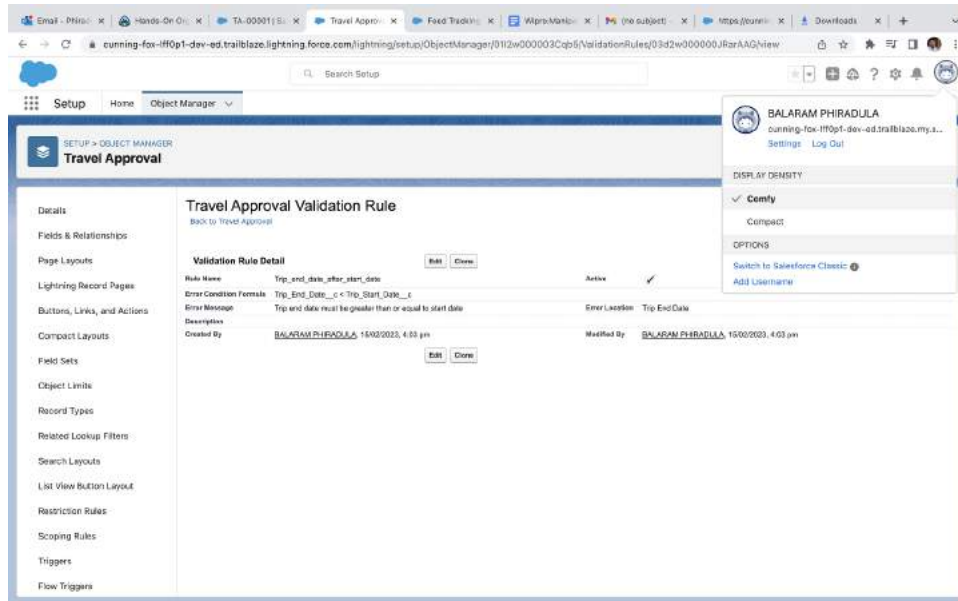


Capstone Project Module 2

Exercise –1

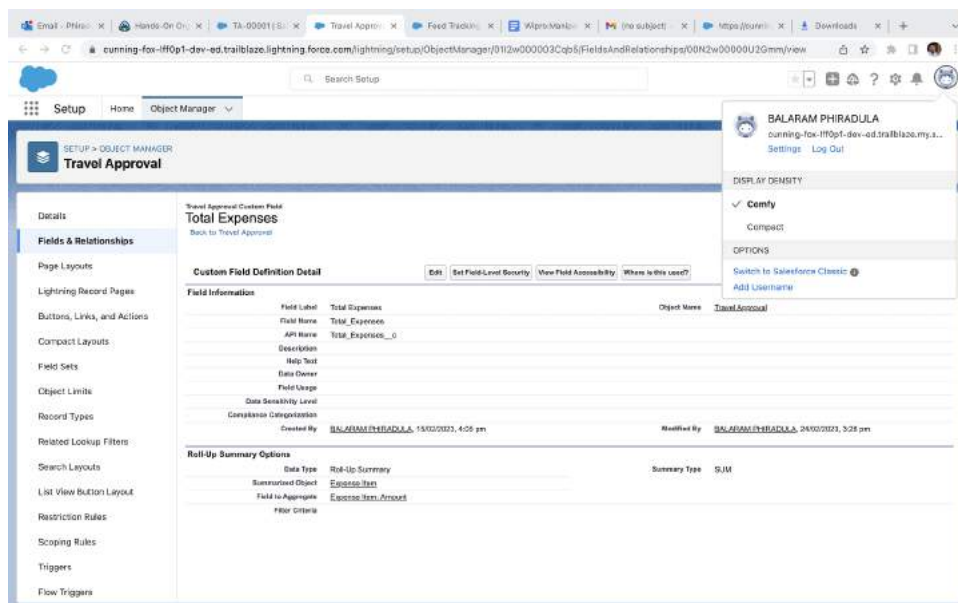
Step –1

Created Trip End Date after start date validation rule



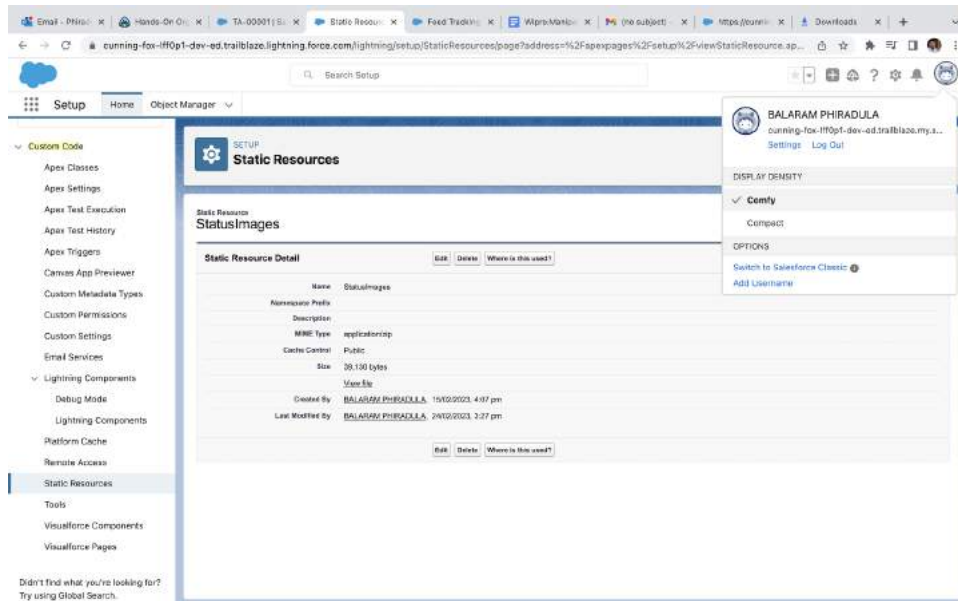
Step – 2

Created a Roll up summary field total expenses



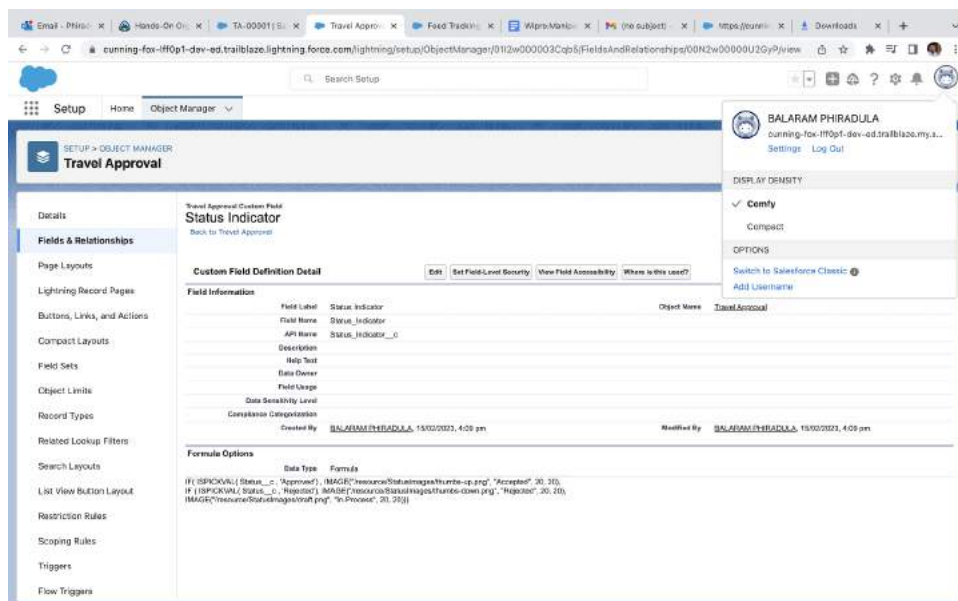
Step – 3

Created a formula field Status Images



Step – 4

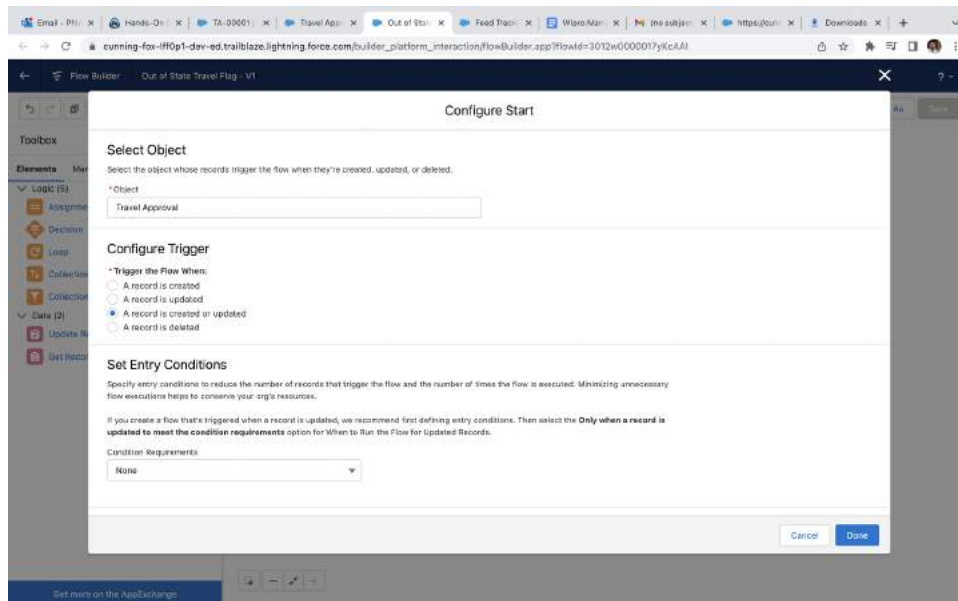
Created a formula field Status Indicator



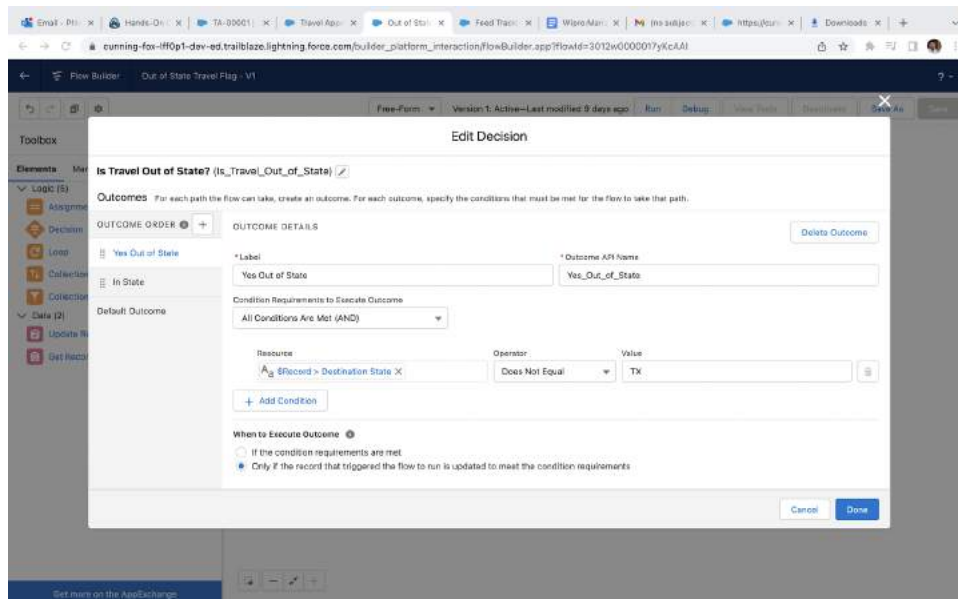
Step –5

Created a record - Trigger flow

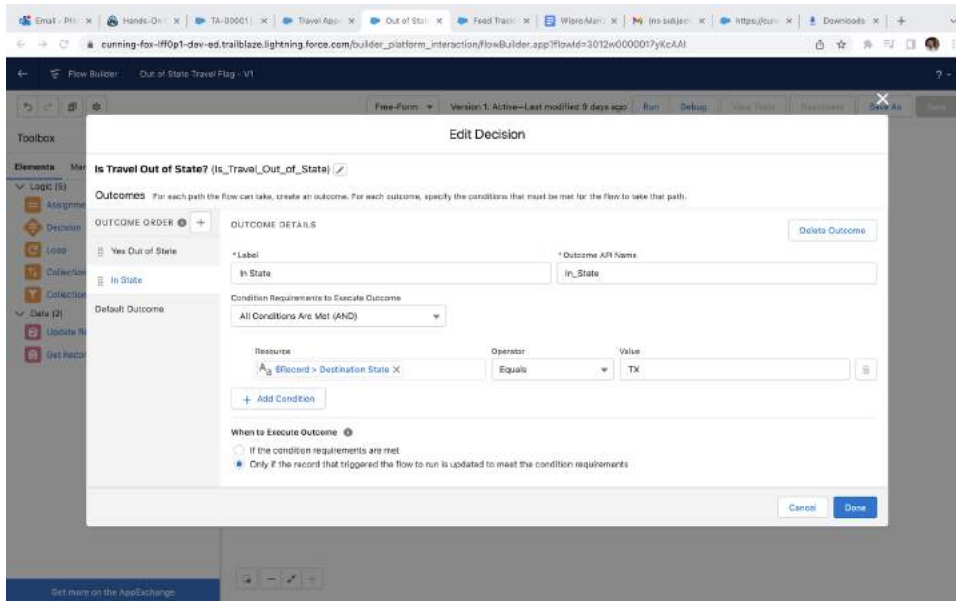
Decision Block



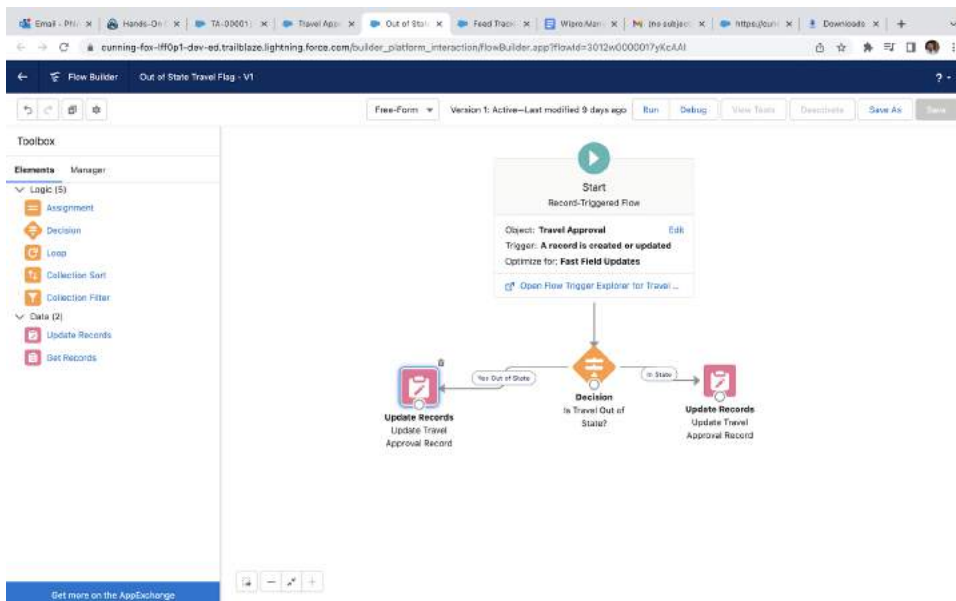
Updated Travel Approval Record (Yes out of state)



Updated Travel Approval Record (In state)



Out of State Travel Flag (flow)



Step – 6

Created an approval process Travel Approval Request

The screenshot shows the Salesforce Setup interface. The left sidebar has a search bar with 'acore' and a list of categories: Data, Process Automation, and Approval Processes. The main content area is titled 'Approval Processes' and shows 'Step 1. Enter Name and Description'. There are input fields for 'Process Name' (Travel Approval Request), 'Unique Name' (Travel_Approval_Request), and 'Description'. A 'Save' button is at the bottom right.

Setup

Approval Processes

Step 1. Enter Name and Description

Enter a name and description for your new approval process.

Enter Name and Description

Process Name: Travel Approval Request

Unique Name: Travel_Approval_Request

Description:

Save Next Cancel

The screenshot shows the 'Process Definition Detail' for the 'Travel Approval Request' approval process. It includes fields for 'Process Name', 'Unique Name', 'Description', 'Entry Criteria', 'Record Editability', 'Approval Assignment Email Template', 'Initial Submitter', 'Created By', and 'Modified By'. There are also sections for 'Initial Submission Actions' and 'Approval Steps'.

Setup

Approval Processes

Travel Approval: Travel Approval Request

Process Definition Detail

Process Name: Travel Approval Request

Unique Name: Travel_Approval_Request

Description: Most Automated Approver Determined By

Entry Criteria: True

Record Editability: Administrator ONLY

Approval Assignment Email Template: Allow Submitters to Recall Approval Requests

Initial Submitter: Travel Approval Owner

Created By: BALARAM PHIRADULA, 15/02/2023, 8:43 pm

Modified By: BALARAM PHIRADULA, 14/02/2023, 10:51 pm

Initial Submission Actions

Action Type: Record Lock

Description: Lock the record from being edited

Approval Steps

Action	Step Number	Name	Description	Criteria	Assigned Approver	Repeat Behavior
Show Actions	1	Step 1				
Show Actions	2	Travel Coordinator Approval	Travel Approval: Out-of-State Status True		Manager	Final Rejection

Final Approval Actions

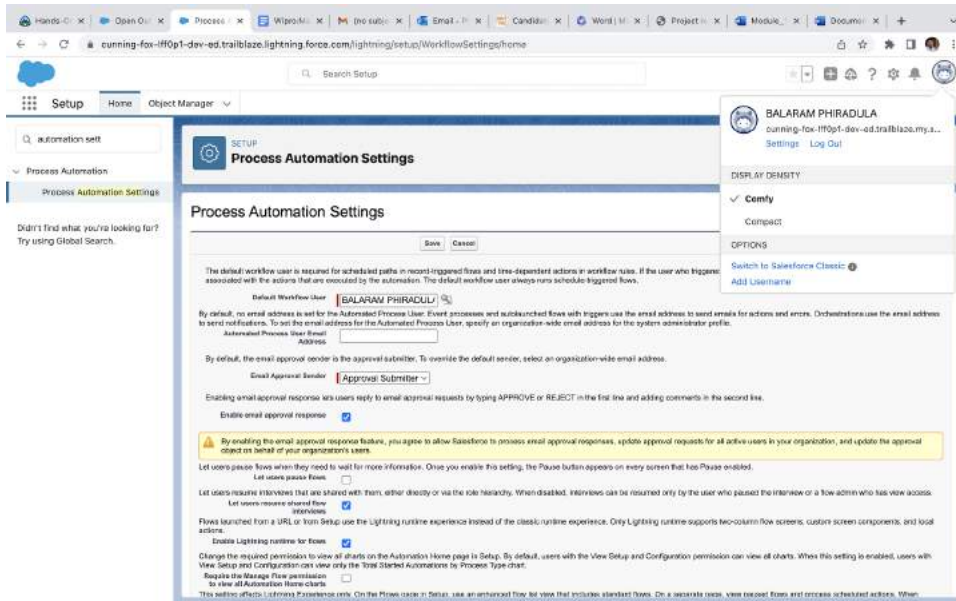
Final Approval Actions

The screenshot shows the Salesforce Setup interface for configuring a Field Update. The page title is "Field Updates". The sub-header is "Set Status to Approved". Below this, there is a description: "Define the field update, including the object associated with the workflow rule, approval process, or entitlement process, the field to update, and the related object. Fields are shown only for the type that you select." The main form is titled "Field Update Edit" and contains several sections: "Identification" with fields for Name (Set Status to Approved), Unique Name (Set_Status_to_Approve), and Description; "Object" set to Travel Approval; "Field to Update" set to Travel Approval Status; "Field Data Type" set to Picklist; and a checkbox for "Re-evaluate Workflow Rules after Field Change" which is unchecked. The "Specify New Field Value" section includes "Picklist Options" with three radio buttons: "The value above the current one", "The value below the current one", and "A specific value" (selected), with a dropdown menu showing "Approved". The right sidebar shows the user profile for BALARAM PHIRADULA and display density options (Cemily, Compact).

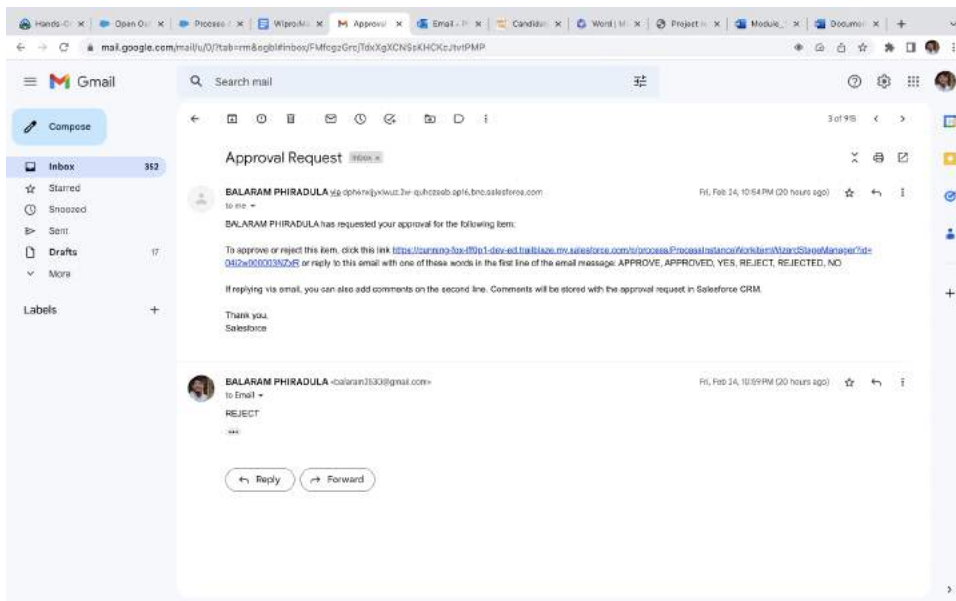
Final Rejection Actions

The screenshot shows the Salesforce Setup interface for configuring a Field Update. The page title is "Field Updates". The sub-header is "Set Status to Rejected". Below this, there is a description: "Define the field update, including the object associated with the workflow rule, approval process, or entitlement process, the field to update, and the related object. Fields are shown only for the type that you select." The main form is titled "Field Update Edit" and contains several sections: "Identification" with fields for Name (Set Status to Rejected), Unique Name (Set_Status_to_Reject), and Description; "Object" set to Travel Approval; "Field to Update" set to Travel Approval Status; "Field Data Type" set to Picklist; and a checkbox for "Re-evaluate Workflow Rules after Field Change" which is unchecked. The "Specify New Field Value" section includes "Picklist Options" with three radio buttons: "The value above the current one", "The value below the current one", and "A specific value" (selected), with a dropdown menu showing "Rejected". The right sidebar shows the user profile for BALARAM PHIRADULA and display density options (Cemily, Compact).

Testing the Approval Process



Received an Email



Assigned to Eric Executive

This screenshot shows the 'Step 2: Specify Step Criteria' configuration page in Salesforce Setup. The page is titled 'Approval Processes' and includes a sidebar with navigation links like 'Data', 'Process Automation', and 'Approval Processes'. The main content area is divided into sections for 'Specify whether a record must meet certain criteria before entering this approval step' and 'Specify Step Criteria'. The 'Specify Step Criteria' section has two radio buttons: 'All records should enter this step' (selected) and 'Enter this step if the following criteria are met'. Below this is a table for defining criteria with columns for 'Field', 'Operator', and 'Value'. The first row is pre-filled with 'Travel Approval: Out-of-State', 'equals', and 'True'. There are also 'Previous Approval Step Information' and 'Add Filter Logic' sections. A user profile for 'BALARAM PHIRADULA' is visible in the top right corner.

Field	Operator	Value
Travel Approval: Out-of-State	equals	True
None	None	
None	None	
None	None	
None	None	

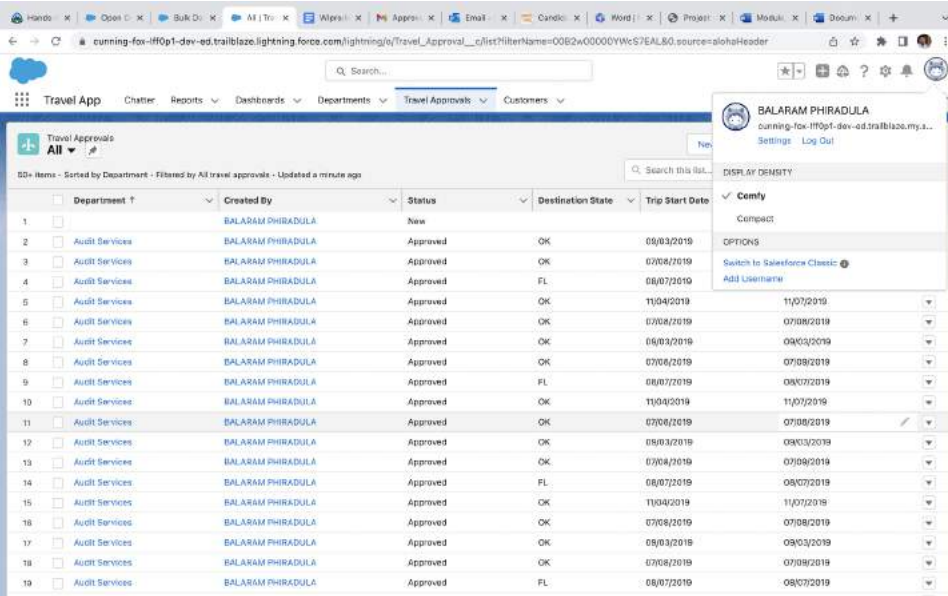
This screenshot shows the 'Step 3: Select Assigned Approver' configuration page in Salesforce Setup. The page is titled 'Approval Processes' and includes a sidebar with navigation links like 'Data', 'Process Automation', and 'Approval Processes'. The main content area is divided into sections for 'Specify the user who should approve records that enter this step' and 'Select Approver'. The 'Select Approver' section has three radio buttons: 'Let the submitter choose the approver manually', 'Automatically assign using the user field selected earlier (Manager)', and 'Automatically assign to owner' (selected). Below this is a table for defining criteria with columns for 'Field', 'Operator', and 'Value'. The first row is pre-filled with 'User', 'equals', and 'Eric Executive'. There are also 'Add Row/Remove Row', 'When multiple approvers are selected', and 'Reject Behavior' sections. A user profile for 'BALARAM PHIRADULA' is visible in the top right corner.

Field	Operator	Value
User	equals	Eric Executive

Exercise – 2

Step –1

Imported Travel Approval Records



Travel App | Chatter | Reports | Dashboards | Departments | Travel Approvals | Customers

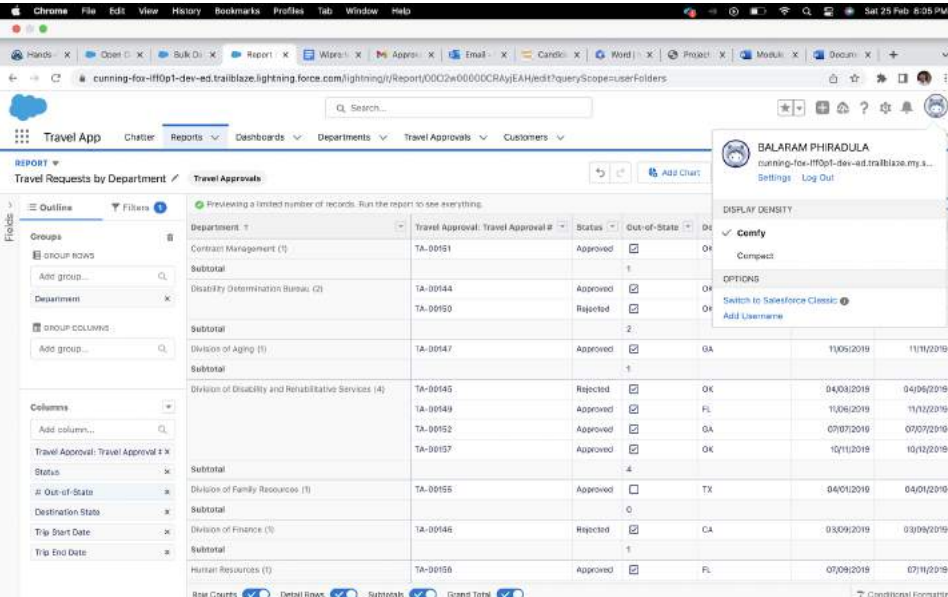
Travel Approvals
All ▼

52+ Items - Sorted by Department - Filtered by All travel approvals - Updated a minute ago

	Department	Created By	Status	Destination State	Trip Start Date
1		BALARAM PHIRADULA	New		
2	Audit Services	BALARAM PHIRADULA	Approved	OK	06/03/2019
3	Audit Services	BALARAM PHIRADULA	Approved	OK	07/08/2019
4	Audit Services	BALARAM PHIRADULA	Approved	FL	08/07/2019
5	Audit Services	BALARAM PHIRADULA	Approved	OK	11/04/2019
6	Audit Services	BALARAM PHIRADULA	Approved	OK	07/08/2019
7	Audit Services	BALARAM PHIRADULA	Approved	OK	06/03/2019
8	Audit Services	BALARAM PHIRADULA	Approved	OK	07/08/2019
9	Audit Services	BALARAM PHIRADULA	Approved	FL	08/07/2019
10	Audit Services	BALARAM PHIRADULA	Approved	OK	11/04/2019
11	Audit Services	BALARAM PHIRADULA	Approved	OK	07/08/2019
12	Audit Services	BALARAM PHIRADULA	Approved	OK	08/03/2019
13	Audit Services	BALARAM PHIRADULA	Approved	OK	07/08/2019
14	Audit Services	BALARAM PHIRADULA	Approved	FL	08/07/2019
15	Audit Services	BALARAM PHIRADULA	Approved	OK	11/04/2019
16	Audit Services	BALARAM PHIRADULA	Approved	OK	07/08/2019
17	Audit Services	BALARAM PHIRADULA	Approved	OK	08/03/2019
18	Audit Services	BALARAM PHIRADULA	Approved	OK	07/08/2019
19	Audit Services	BALARAM PHIRADULA	Approved	FL	08/07/2019

Step – 2

Created a Report on Travel Requests by Department



Chrome | File | Edit | View | History | Bookmarks | Profiles | Tab | Window | Help

Travel App | Chatter | Reports | Dashboards | Departments | Travel Approvals | Customers

REPORT ▼
Travel Requests by Department

Travel Approvals

Previewing a limited number of records. Run the report to see everything.

Departments	Travel Approval	Status	Out-of-State	OK
Contract Management (1)	TA-00151	Approved		OK
Subtotal			1	
Disability Determination Bureau (2)	TA-00144	Approved		OK
	TA-00150	Rejected		OK
Subtotal			2	
Division of Aging (1)	TA-00147	Approved	GA	
Subtotal			1	
Division of Disability and Rehabilitative Services (4)	TA-00145	Rejected	OK	
	TA-00149	Approved	FL	
	TA-00152	Approved	GA	
	TA-00157	Approved	OK	
Subtotal			4	
Division of Family Resources (1)	TA-00155	Approved	TX	
Subtotal			0	
Division of Finance (1)	TA-00148	Rejected	CA	
Subtotal			1	
Human Resources (1)	TA-00158	Approved	FL	
Subtotal			1	

Row Counts: [X] Detail Rows: [X] Subtotals: [X] Grand Totals: [X]

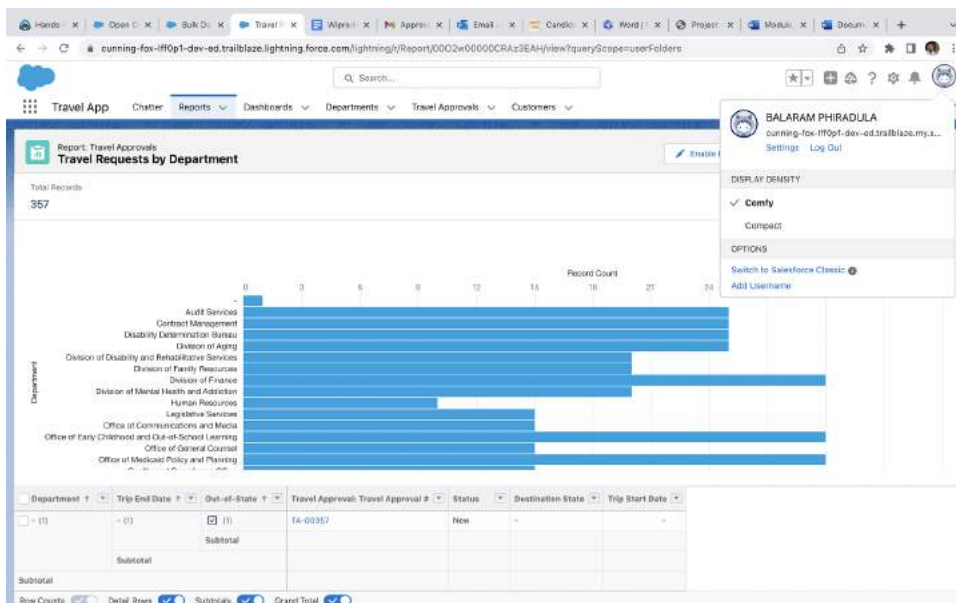
After Testing

Report: Travel Approvals
Travel Requests by Department

Total Records: 357
Total Out-of-State: 272

Department	Travel Approval #	Status	Out-of-State	Destination State	Trip Start Date	Trip End Date
Subtotal	1	New	-	-	-	-
Audit Services (25)	TA-00166	Approved	OK	OK	08/03/2019	09/03/2019
	TA-00174	Approved	OK	OK	07/08/2019	07/09/2019
	TA-00182	Approved	FL	OK	08/07/2019	08/07/2019
	TA-00188	Approved	OK	OK	11/04/2019	11/07/2019
	TA-00191	Approved	OK	OK	07/08/2019	07/08/2019
	TA-00224	Approved	OK	OK	08/03/2019	09/03/2019
	TA-00332	Approved	OK	OK	07/08/2019	07/09/2019
	TA-00440	Approved	FL	OK	08/07/2019	08/07/2019
	TA-00444	Approved	OK	OK	11/04/2019	11/07/2019
	TA-00449	Approved	OK	OK	07/08/2019	07/08/2019
	TA-00227	Approved	OK	OK	08/03/2019	09/03/2019
	TA-00246	Approved	OK	OK	07/08/2019	07/09/2019
	TA-00253	Approved	FL	OK	08/07/2019	08/07/2019
	TA-00257	Approved	OK	OK	11/04/2019	11/07/2019
	TA-00262	Approved	OK	OK	07/08/2019	07/08/2019

Row Counts: Detail Rows Subtotals Grand Total



Step – 3

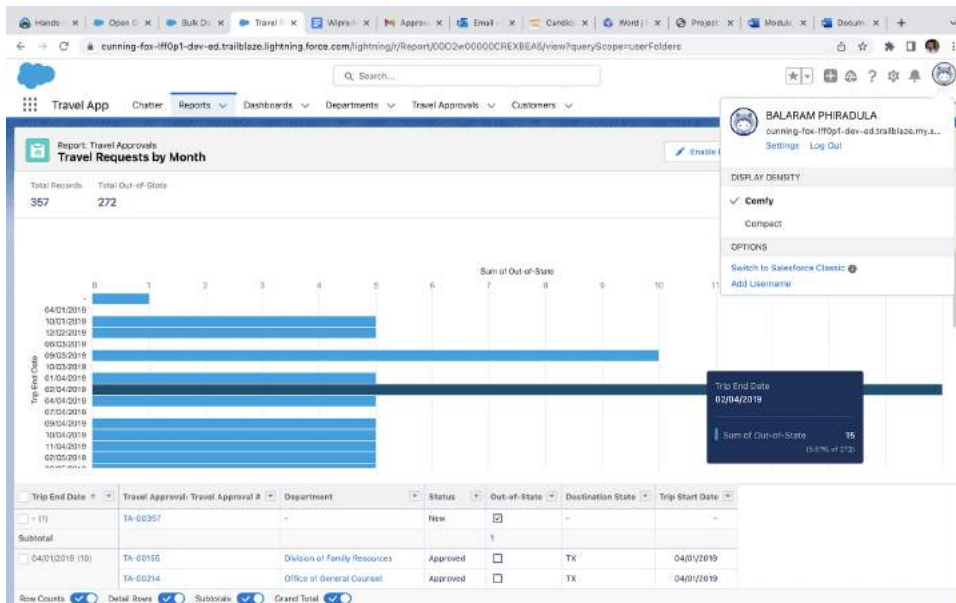
Created a Travel Requests by Monthly Report

Previewing a limited number of records. Run the report to see everything.

Trip End Date	Travel Approval #	Department	Status	Out-of-State
January 2019 (2)	TA-00144	Disability Determination Bureau	Approved	
	TA-00155	Division of Family Resources	Approved	
Subtotal				
March 2019 (1)	TA-00158	Legislative Services	Approved	
Subtotal				
April 2019 (2)	TA-00161	Office of Early Childhood and Out-of-School Learning	Approved	FL
	TA-00163	Legislative Services	Approved	FL
Subtotal				
May 2019 (1)	TA-00150	Quality and Compliance Office	Approved	CA
Subtotal				
June 2019 (1)	TA-00145	Division of Disability and Rehabilitative Services	Rejected	OK
Subtotal				
July 2019 (2)	TA-00150	Disability Determination Bureau	Rejected	OK
	TA-00152	Division of Disability and Rehabilitative Services	Approved	GA
Subtotal				
August 2019 (1)	TA-00158	Office of General Counsel	Approved	FL
Subtotal				
September 2019 (2)	TA-00146	Division of Finance	Rejected	CA
	TA-00148	Technology	Approved	TX
Row Counts				

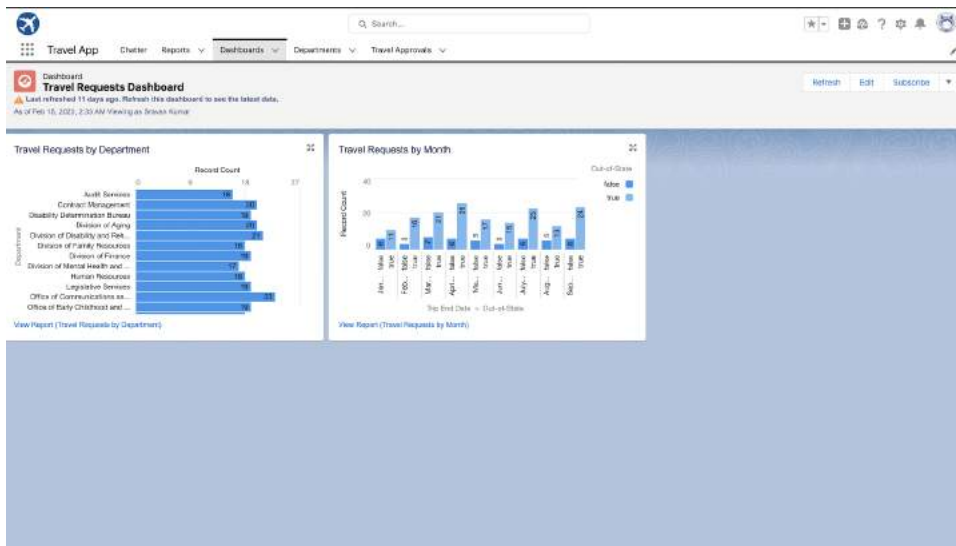
Previewing a limited number of records. Run the report to see everything.

Trip End Date	Travel Approval #	Department	Status	Out-of-State	Trip Start Date
1	TA-00144	Disability Determination Bureau	Approved		
2	TA-00145	Division of Disability and Rehabilitative Services	Rejected		
3	TA-00146	Division of Finance	Rejected		
4	TA-00147	Division of Aging	Approved		
5	TA-00148	Technology	Approved		
6	TA-00149	Division of Disability and Rehabilitative Services	Approved	FL	
7	TA-00150	Disability Determination Bureau	Rejected	OK	
8	TA-00151	Contract Management	Approved	OK	
9	TA-00152	Division of Disability and Rehabilitative Services	Approved	GA	
10	TA-00153	Office of Communications and Media	Approved	OK	
11	TA-00154	Office of Medicaid Policy and Planning	Approved	CA	
12	TA-00155	Division of Family Resources	Approved	TX	
13	TA-00156	Human Resources	Approved	FL	
14	TA-00157	Division of Disability and Rehabilitative Services	Approved	OK	
15	TA-00158	Office of General Counsel	Approved	FL	
16	TA-00159	Legislative Services	Approved	TX	
17	TA-00160	Quality and Compliance Office	Approved	CA	
18	TA-00161	Office of Early Childhood and Out-of-School Learning	Approved	FL	
19	TA-00162	Office of Communications and Media	Approved	FL	
20	TA-00163	Legislative Services	Approved	FL	



Step – 4

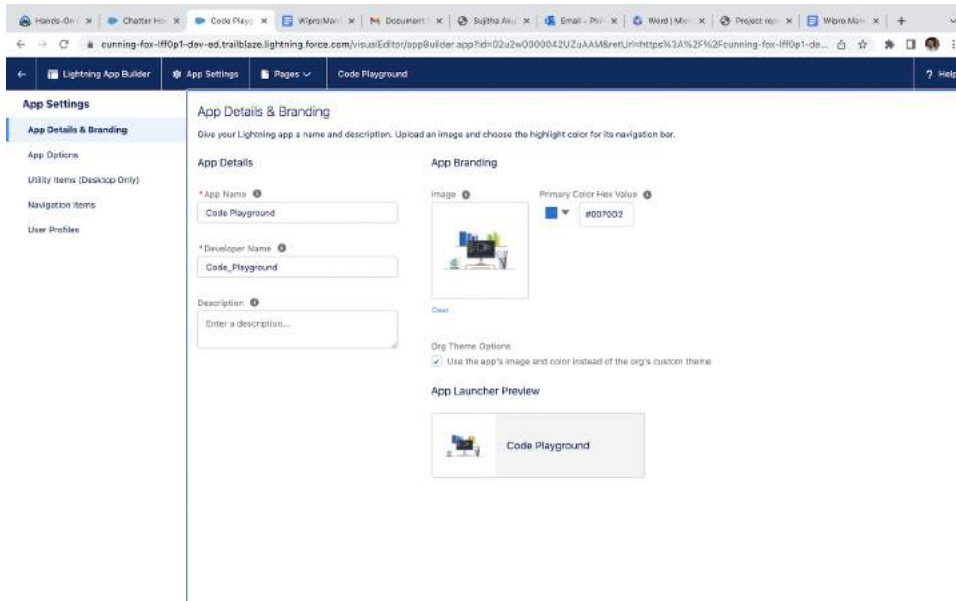
Created a Report and Dashboard for Travel Approvals



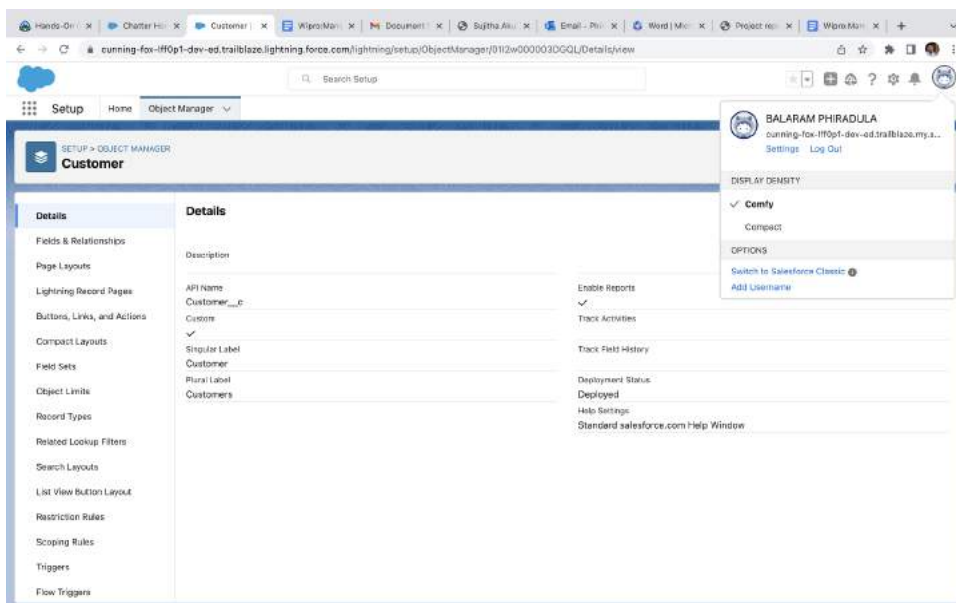
Capstone Project Module 3

Exercise – 1

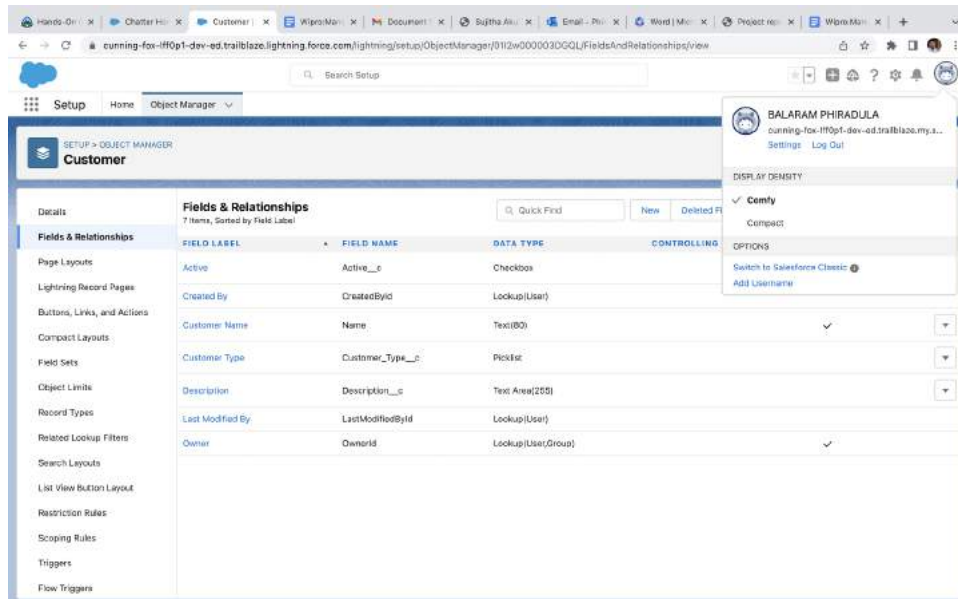
Created Code Playground App



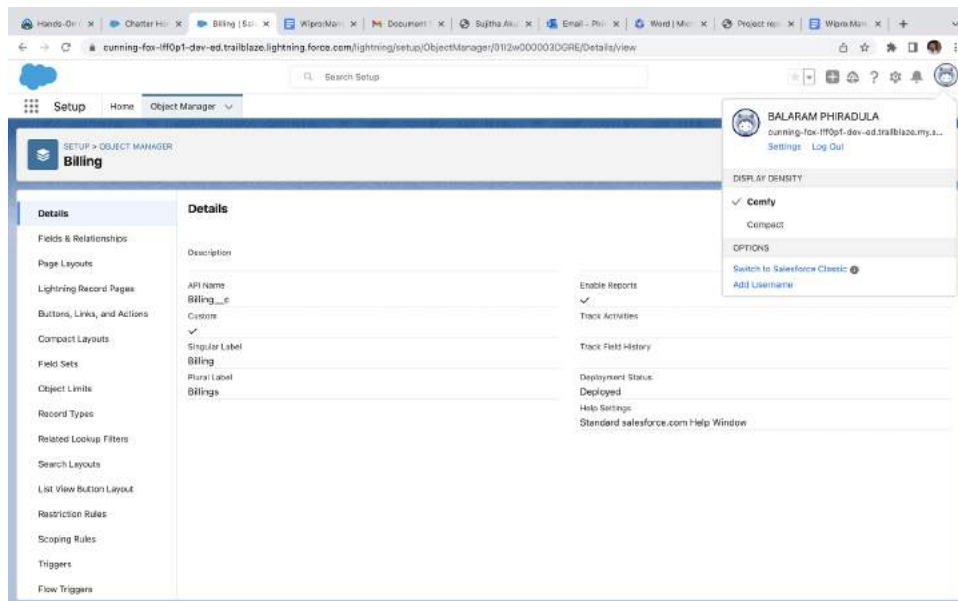
Created the Custom Object Customer as (SCustomer) as there is already a Standard Object named Customer



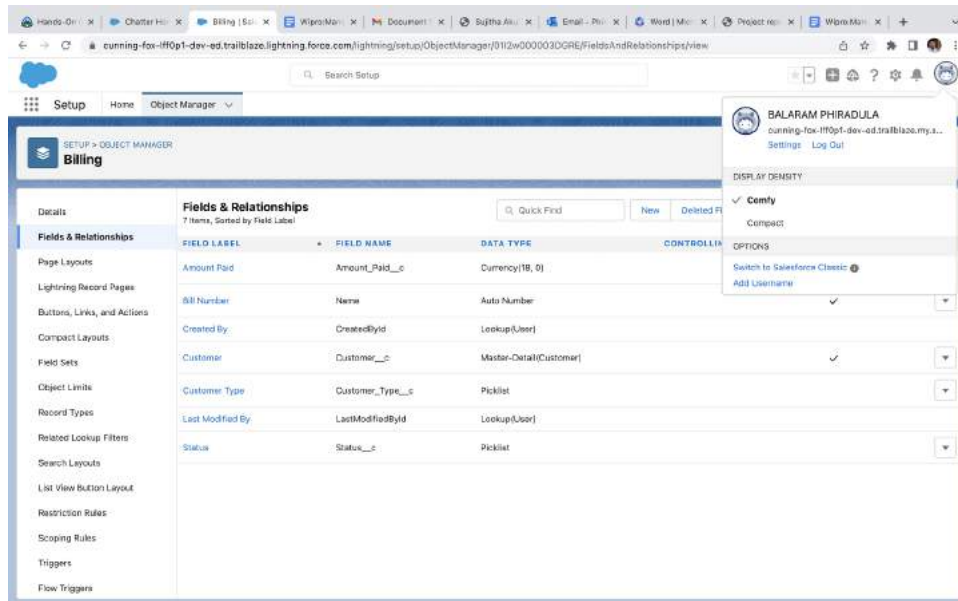
Created all the Custom Fields



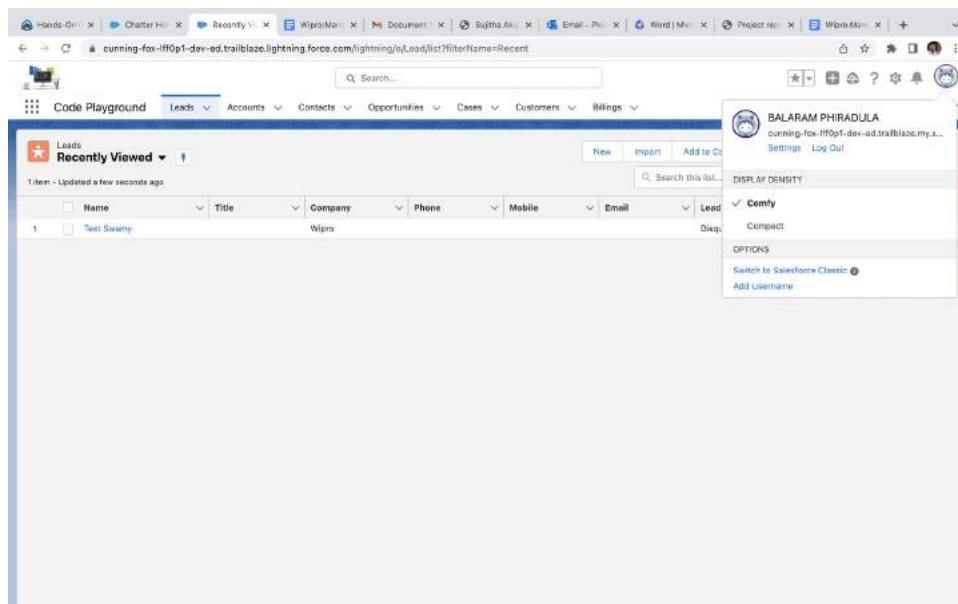
Created a Custom Object named Billing



Created Custom fields for billing object

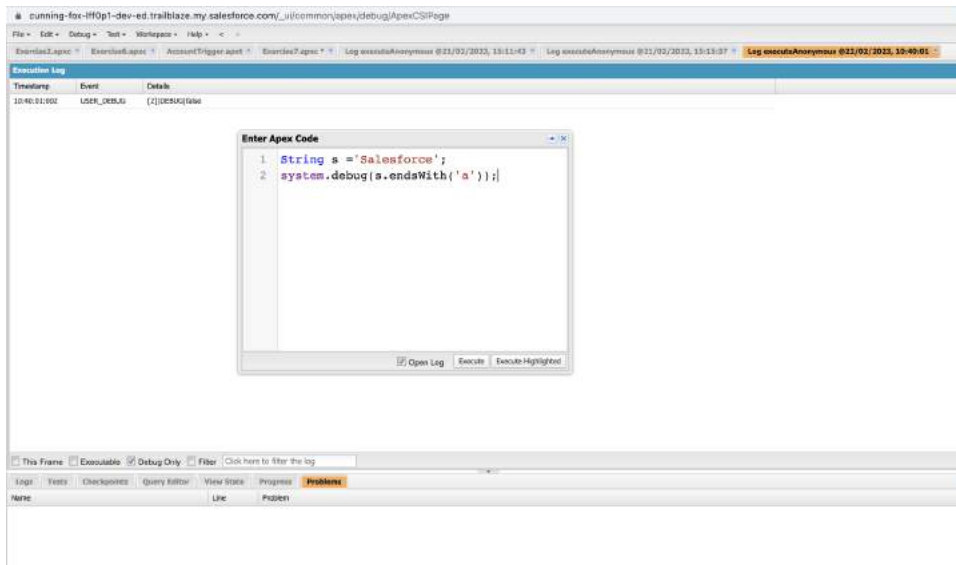


Code Playground App

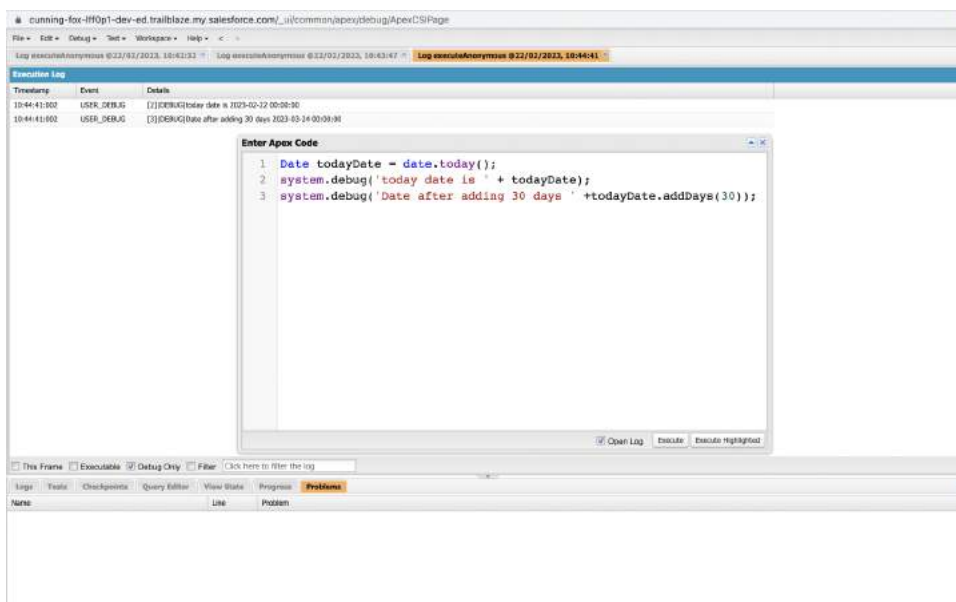


Exercise – 2

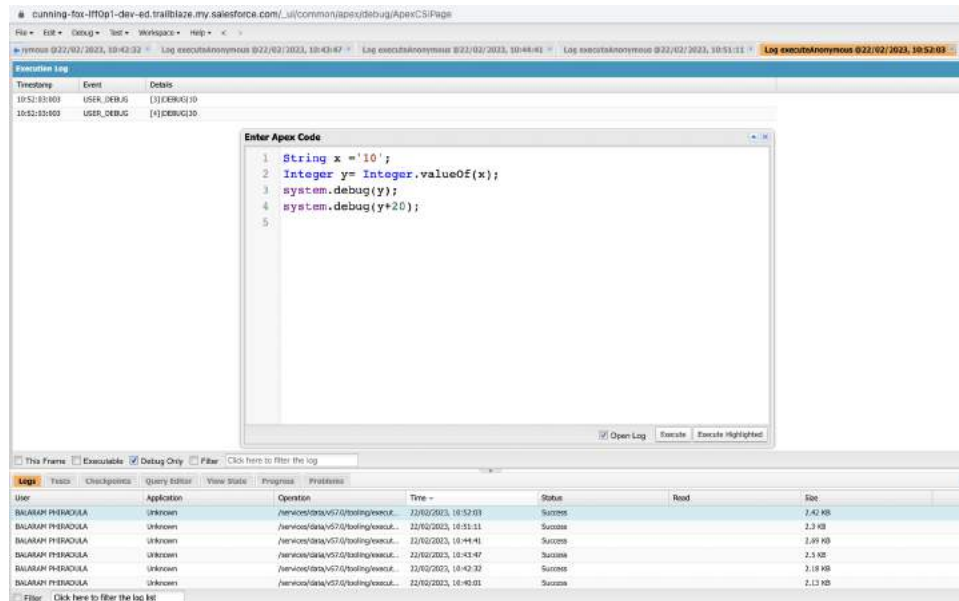
String Variable using endsWith() method



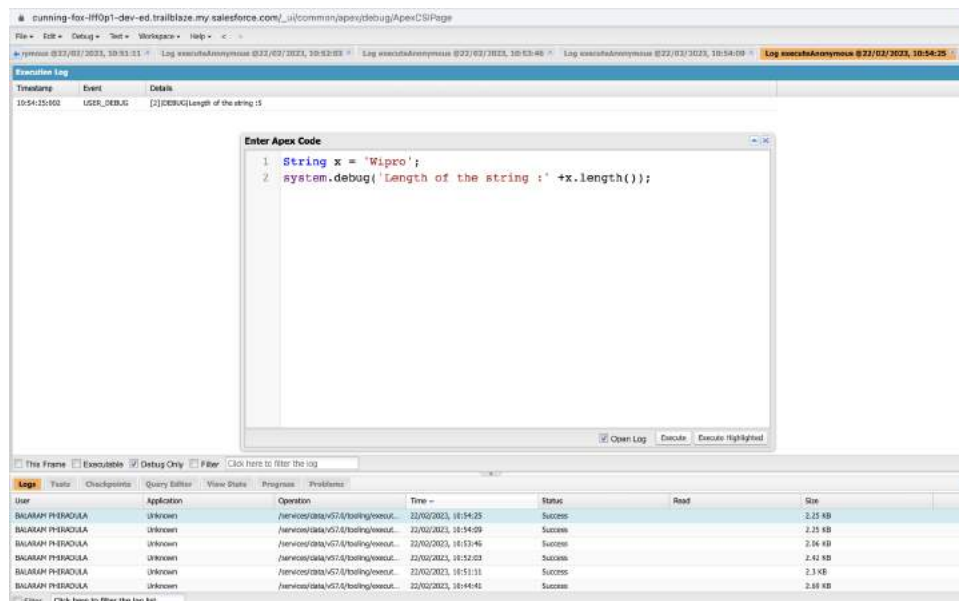
Use the Date method and display the Date



Converted the string to integer and added 20 to it



Used Length method to display String length



cunning-fox-if01-dev-ed-trailblaze.my.salesforce.com/_ui/commen/apex/debug/ApexCSFPage

File Edit Debug Test Workspace Help

Refresh 02/02/2023, 10:54:25 Log executionAnonymous 02/02/2023, 10:58:28 Log executionAnonymous 02/02/2023, 10:59:22 Log executionAnonymous 02/02/2023, 11:00:25 Log executionAnonymous 02/02/2023, 11:01:26

Execution Log

Timestamp	Event	Details
11:01:10:660	USER_DEBUG	{5}DEBUG(list using add()) method : {100, 200, 300}
11:01:20:660	USER_DEBUG	{6}DEBUG(list using get()) method : 200
11:01:30:660	USER_DEBUG	{8}DEBUG(list after using set()) method : {100, 250, 300}
11:01:40:660	USER_DEBUG	{10}DEBUG(list after using clear()) method : []

Enter Apex Code

```

1 List<Integer> myList = new List<Integer>();
2 myList.add(100);
3 myList.add(200);
4 myList.add(300);
5 system.debug('list using add() method : '+myList);
6 system.debug('list using get() method : '+myList.get(1));
7 myList.set(1,250);
8 system.debug('list after using set() method : '+myList);
9 myList.clear();
10 system.debug('list after using clear() method : '+myList);

```

☐ This Frame
☐ Executable
☒ Debug Only
☐ Filter

Logs	Tests	Checkpoints	Query Editor	View State	Progress	Problems
User	Application	Operation	Time	Status	Read	Size
BALARAH PERASOJA	Unknown	/services/data/v57.0/testing/execute...	22/02/2023, 11:01:20	Success		4.15 KB
BALARAH PERASOJA	Unknown	/services/data/v57.0/testing/execute...	22/02/2023, 11:00:22	Success		1.73 KB
BALARAH PERASOJA	Unknown	/services/data/v57.0/testing/execute...	22/02/2023, 10:59:22	Success		1.27 KB
BALARAH PERASOJA	Unknown	/services/data/v57.0/testing/execute...	22/02/2023, 10:58:28	Success		2.34 KB
BALARAH PERASOJA	Unknown	/services/data/v57.0/testing/execute...	22/02/2023, 10:54:35	Success		3.35 KB
BALARAH PERASOJA	Unknown	/services/data/v57.0/testing/execute...	22/02/2023, 10:54:08	Success		2.25 KB

☐ Filter

The screenshot shows the Salesforce IDE interface. The top bar indicates the user is logged in as 'admin@my.salesforce.com'. The main workspace is divided into three panes:

- Execution Log (Left):** A list of events from the 'execute_anonymous Apex' session. The events include 'USER_INFO', 'EXECUTION_START', 'CODE_UNIT_START', 'VARIABLE_SCOPE', 'HEAP_ALLOCATE', 'STATEMENT_EXECUTE', 'LIMIT_USAGE', and 'COMPLETIVE...'. The log shows the execution of a loop that increments a variable x from 0 to 20.
- Enter Apex Code (Right):** A code editor showing the following Apex code:


```
1 Integer x= 20;
2 while(x>20){
3     for(Integer x=0 ;x<10; x++){
4         system.debug('Value of x is ' +x);
5     }
6 }
```
- Log Table (Bottom):** A table showing the execution log entries. The columns are 'User', 'Application', 'Operation', 'Time', 'Status', 'Read', and 'Size'. The entries show the execution of the 'execute_anonymous Apex' session.

Exercise – 3

The screenshot shows the Salesforce Developer Console interface. At the top, the browser address bar displays the URL: `running-fox-ff0p1-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSPage`. Below the address bar, there are tabs for "Log executionAnonymous @12/02/2023, 11:03:54", "Log executionAnonymous @12/02/2023, 11:05:08", "Log executionAnonymous @12/02/2023, 11:07:22", and "Log executionAnonymous @12/02/2023, 11:08:54". The "Execution Log" tab is selected, showing a table with columns: Timestamp, Event, and Details. The log entry for 11:08:55:002 shows the event "USER_DEBUG" with details "[v]ICEBKG/mie".

In the center, the "Enter Apex Code" window is open, displaying the following code:

```
1 Integer myunluckyNumber = 7;
2 Integer myluckyNumber = 15;
3 system.debug(myLuckyNumber != myunluckyNumber + 8);
4
```

At the bottom, the "Log" tab is selected, showing a table with columns: User, Application, Operation, Time, Status, Read, and Size. The log entries are as follows:

User	Application	Operation	Time	Status	Read	Size
BALAHAM PIRADJALA	Unknown	/services/data/v57.0/tooling/execute...	22/02/2023, 11:08:55	Success		2.42 KB
BALAHAM PIRADJALA	Unknown	/services/data/v57.0/tooling/execute...	22/02/2023, 11:07:22	Success		2.01 KB
BALAHAM PIRADJALA	Unknown	/services/data/v57.0/tooling/execute...	22/02/2023, 11:05:08	Success		2.01 KB
BALAHAM PIRADJALA	Unknown	/services/data/v57.0/tooling/execute...	22/02/2023, 11:03:54	Success		2.01 KB
BALAHAM PIRADJALA	Unknown	/services/data/v57.0/tooling/execute...	22/02/2023, 11:03:04	Success		2 KB
BALAHAM PIRADJALA	Unknown	/services/data/v57.0/tooling/execute...	22/02/2023, 11:01:20	Success		4.15 KB

Exercise – 4

The screenshot shows the Salesforce Developer Console interface. At the top, the browser address bar displays the URL: `running-fox-ff0p1-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSPage`. Below the address bar, there are tabs for "Log executionAnonymous @12/02/2023, 11:03:54", "Log executionAnonymous @12/02/2023, 11:05:08", "Log executionAnonymous @12/02/2023, 11:07:22", "Log executionAnonymous @12/02/2023, 11:08:54", and "Log executionAnonymous @12/02/2023, 11:10:10". The "Execution Log" tab is selected, showing a table with columns: Timestamp, Event, and Details. The log entry for 11:10:10:002 shows the event "USER_DEBUG" with details "[v]ICEBKG/mie".

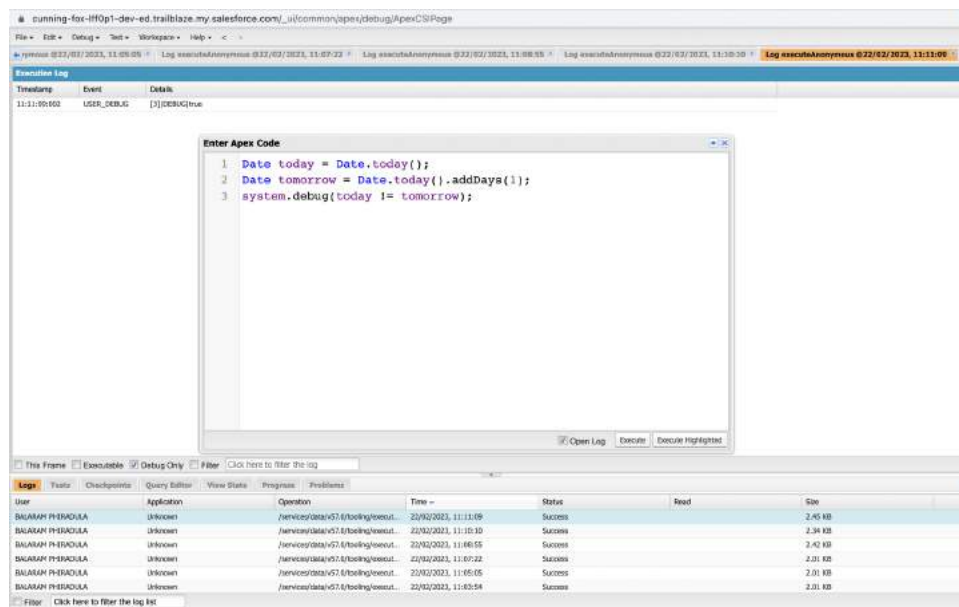
In the center, the "Enter Apex Code" window is open, displaying the following code:

```
1 Boolean isTrue = true;
2 Boolean isFalse = false;
3 system.debug(isTrue || isFalse);
4
```

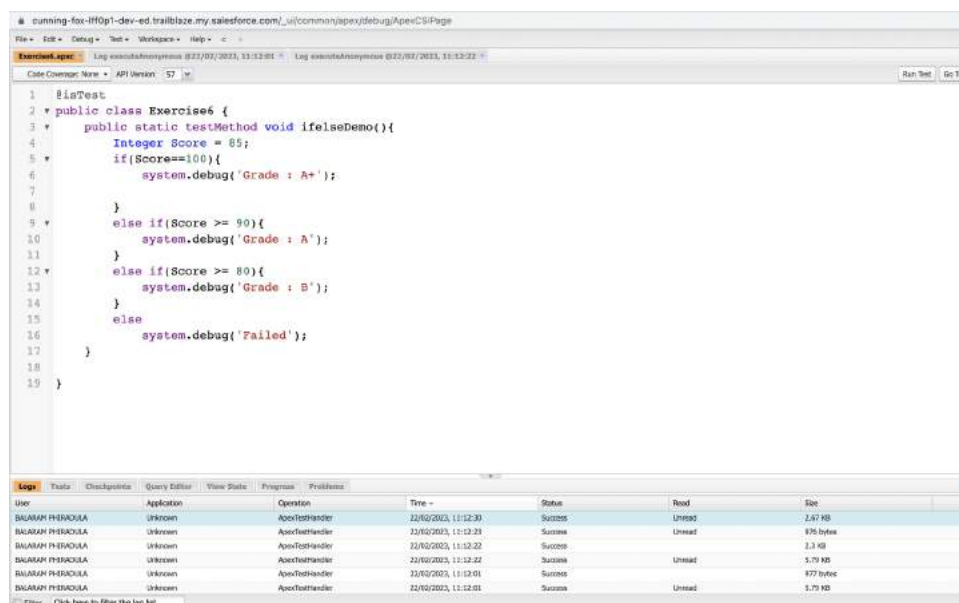
At the bottom, the "Log" tab is selected, showing a table with columns: User, Application, Operation, Time, Status, Read, and Size. The log entries are as follows:

User	Application	Operation	Time	Status	Read	Size
BALAHAM PIRADJALA	Unknown	/services/data/v57.0/tooling/execute...	22/02/2023, 11:10:10	Success		2.34 KB
BALAHAM PIRADJALA	Unknown	/services/data/v57.0/tooling/execute...	22/02/2023, 11:08:55	Success		2.42 KB
BALAHAM PIRADJALA	Unknown	/services/data/v57.0/tooling/execute...	22/02/2023, 11:07:22	Success		2.01 KB
BALAHAM PIRADJALA	Unknown	/services/data/v57.0/tooling/execute...	22/02/2023, 11:05:08	Success		2.01 KB
BALAHAM PIRADJALA	Unknown	/services/data/v57.0/tooling/execute...	22/02/2023, 11:03:54	Success		2.01 KB
BALAHAM PIRADJALA	Unknown	/services/data/v57.0/tooling/execute...	22/02/2023, 11:03:04	Success		2 KB

Exercise – 5



Exercise – 6 Program for Finding the Grade based on Score



The screenshot shows the Salesforce ApexCSPage interface. At the top, there's a navigation bar with 'File', 'Edit', 'Debug', 'Test', 'Workspace', and 'Help'. Below it, a tab bar shows 'BillingRecords.apex', 'CustomerTrigger.apex', and several 'Log executeAnonymous' tabs. The main area is titled 'Execution Log' and contains a table with columns: Timestamp, Event, and Details. The table shows a single entry at 15:28:17:603 for event 'USER_DEBUG' with details '[1]DEBUG:Grade : B'. Below the log, there's a 'Filter' button and a 'Click here to filter the log' link. At the bottom, there's a table with columns: User, Application, Operation, Time, Status, Row, and Size. It lists five entries for 'BALARAH PITHAKULA' using 'ApexTestHandler' at 15:28:37, all with 'Success' status. The last two entries show 'Apex CPU time limit exceeded' with 'Unread' status and sizes of 17.67 MB and 17.49 MB.

Timestamp	Event	Details
15:28:17:603	USER_DEBUG	[1]DEBUG:Grade : B

User	Application	Operation	Time	Status	Row	Size
BALARAH PITHAKULA	Unknown	ApexTestHandler	23/02/2023, 15:28:37	Success		2.3 KB
BALARAH PITHAKULA	Unknown	ApexTestHandler	23/02/2023, 15:28:37	Success		5.70 KB
BALARAH PITHAKULA	Unknown	ApexTestHandler	23/02/2023, 15:28:36	Success	Unread	877 bytes
BALARAH PITHAKULA	Unknown	/services/data/v57.0/testing/execute...	23/02/2023, 15:28:06	Apex CPU time limit exceeded	Unread	17.67 MB
BALARAH PITHAKULA	Unknown	/services/data/v57.0/testing/execute...	23/02/2023, 15:27:31	Apex CPU time limit exceeded	Unread	17.49 MB

Exercise – 7

Program to execute Apex – for loop

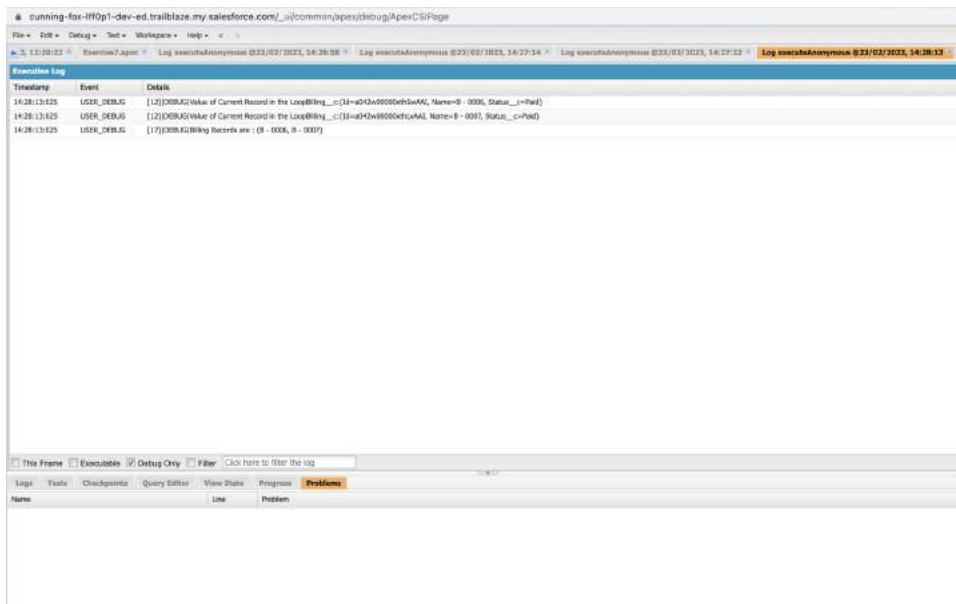
The screenshot shows the Salesforce ApexCSPage code editor. The top bar includes 'File', 'Edit', 'Debug', 'Test', 'Workspace', and 'Help'. Below it, a tab bar shows 'Exercise7.apex' and several 'Log executeAnonymous' tabs. The main area is titled 'Code Coverage: None' and 'API Version: 57'. It contains the following Apex code:

```

1 public class Exercise7 {
2
3     public static void BillingRecords(){
4
5         list <Billing__c> BillingList =[select Id,Name,Status__c from Billing__c where CreatedDate=today];
6         // system.debug(BillingList);
7         list <String> billList = new List <String>();
8         for(Billing__c bill:BillingList){
9             if(bill.Status__c=='Paid'){
10
11                 system.debug('Value of Current Record in the Loop' +bill);
12                 billList.add(bill.Name);
13             }
14         }
15         system.debug('Billing Records are : ' +billList);
16     }
17 }
18
19

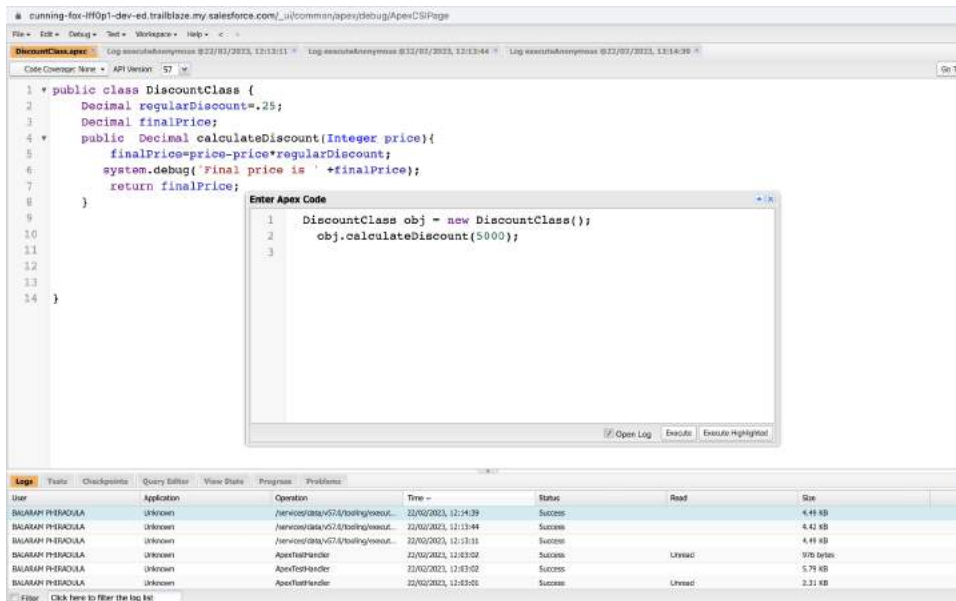
```

At the bottom, there's a table with columns: Name, Line, and Problem. It is currently empty.



Exercise – 8

Created a Class to demonstrate constants in Apex



running-fox-if0p1-dev-ed.trailblaze.my.salesforce.com/_ui/comm/an/apex/debug/ApexCSPage

File Edit Debug Test Workspace Help

InterfaceExample.apex PremiumCustomer.apex normalCustomer.apex Log eventAnonymous @22/02/2023, 14:38:05 Log eventAnonymous @22/02/2023, 14:48:54 Log eventAnonymous @22/02/2023, 14:53:47

Code Coverage: None API Version: 57

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

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
BALAMAH PIRADULLA	Unknown	/services/data/v57.0/testing/execute...	22/02/2023, 14:53:47	Success		3.81 KB
BALAMAH PIRADULLA	Unknown	ApexTestHandler	22/02/2023, 14:48:54	Success		1.75 KB
BALAMAH PIRADULLA	Unknown	ApexTestHandler	22/02/2023, 14:48:45	Success	Unread	677 bytes
BALAMAH PIRADULLA	Unknown	ApexTestHandler	22/02/2023, 14:48:45	Success	Unread	2.31 KB
BALAMAH PIRADULLA	Unknown	ApexTestHandler	22/02/2023, 14:46:23	Success		476 bytes
BALAMAH PIRADULLA	Unknown	ApexTestHandler	22/02/2023, 14:46:22	Success	Unread	1.75 KB

Filter Click here to filter the log list

running-fox-if0p1-dev-ed.trailblaze.my.salesforce.com/_ui/comm/an/apex/debug/ApexCSPage

File Edit Debug Test Workspace Help

InterfaceExample.apex PremiumCustomer.apex normalCustomer.apex Log eventAnonymous @22/02/2023, 14:38:05 Log eventAnonymous @22/02/2023, 14:48:54 Log eventAnonymous @22/02/2023, 14:53:47

Code Coverage: None API Version: 57

```
1 * public class normalCustomer implements InterfaceExample{
2 *     public Double percentageDiscountTobeApplied(){
3 *         return 0.1;
4 *     }
5 * }
6 }
```

Enter Apex Code

```
1 normalCustomer x= new normalCustomer();
2 Double y = x.percentageDiscountTobeApplied();
3 system.debug(y);
```

Open Log Execute Execute Highlighted

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
BALAMAH PIRADULLA	Unknown	/services/data/v57.0/testing/execute...	22/02/2023, 14:53:47	Success		3.81 KB
BALAMAH PIRADULLA	Unknown	ApexTestHandler	22/02/2023, 14:48:54	Success		1.75 KB
BALAMAH PIRADULLA	Unknown	ApexTestHandler	22/02/2023, 14:48:45	Success	Unread	677 bytes
BALAMAH PIRADULLA	Unknown	ApexTestHandler	22/02/2023, 14:48:45	Success	Unread	2.31 KB
BALAMAH PIRADULLA	Unknown	ApexTestHandler	22/02/2023, 14:46:23	Success		476 bytes
BALAMAH PIRADULLA	Unknown	ApexTestHandler	22/02/2023, 14:46:22	Success	Unread	1.75 KB

Filter Click here to filter the log list

Running for iF0p1-dev-ed.trailblaze.my.salesforce.com/_ui/comm/apex/debug/ApexCSPage

File Edit Debug Test Workspace Help

normalCustomer.apex Log executeAnonymous @22/02/2023, 14:13:05 Log executeAnonymous @22/02/2023, 14:46:54 Log executeAnonymous @22/02/2023, 14:53:47 Log executeAnonymous @22/02/2023, 14:54:36

Executive Log

Timestamp	Event	Details
14:53:47:520	USER_DEBUG	[1]DEBUG[1]

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
BALAHAN PIRADULLA	Unknown	/services/data/v57.0/testing/insert...	22/02/2023, 14:54:36	Success		3.79 KB
BALAHAN PIRADULLA	Unknown	/services/data/v57.0/testing/insert...	22/02/2023, 14:53:47	Success		3.84 KB
BALAHAN PIRADULLA	Unknown	ApexTestHandler	22/02/2023, 14:46:54	Success		5.76 KB
BALAHAN PIRADULLA	Unknown	ApexTestHandler	22/02/2023, 14:46:45	Success	Unread	977 bytes
BALAHAN PIRADULLA	Unknown	ApexTestHandler	22/02/2023, 14:46:23	Success	Unread	2.31 KB
BALAHAN PIRADULLA	Unknown	ApexTestHandler	22/02/2023, 14:46:23	Success	Unread	976 bytes

Filter Click here to filter the log list

Exercise – 10

Demo on DML Insert Operation Using Database Methods

Developer Console

Running for iF0p1-dev-ed.trailblaze.my.salesforce.com/_ui/comm/apex/debug/ApexCSPage

File Edit Debug Test Workspace Help

BillingRecord.apex CustomerTrigger.apex ExecuteTest.apex ExecuteTest.apex DiscountClass.apex Log executeAnonymous @23/02/2023, 15:33:58 Log executeAnonymous @23/02/2023, 15:41:58

Code Coverage: None API Version: 57 Go To

```

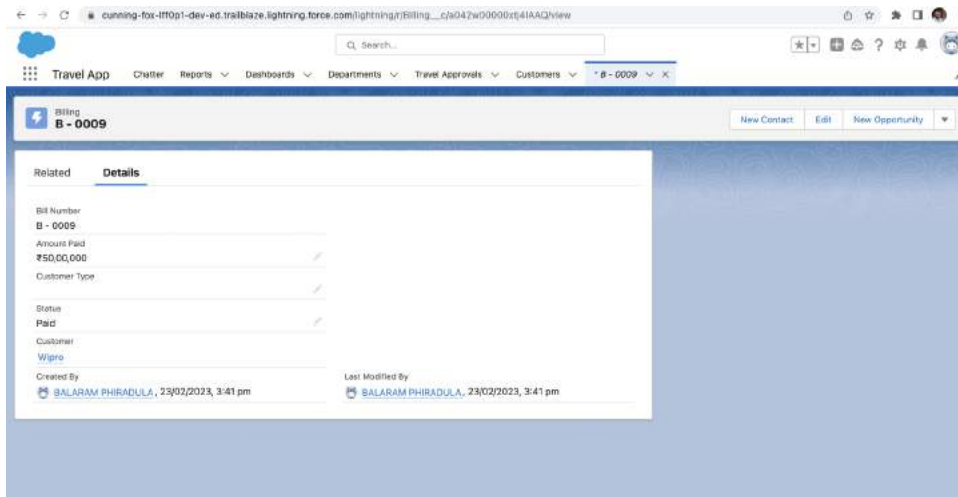
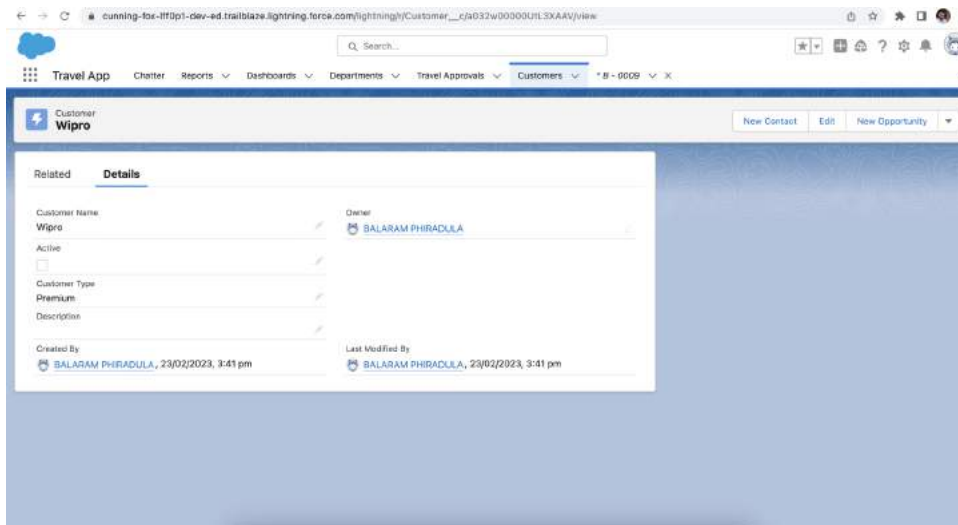
1 public class BillingRecord {
2     public static void BillingRecordInsertion(){
3         Customer__c cust = new Customer__c(Name = 'Wipro', Customer_Type__c = 'Premium');
4         insert cust;
5         Id cust_id = cust.Id;
6
7         List<Billing__c> billings = new List<Billing__c>{
8             new Billing__c(Status__c='Paid',Amount_Paid__c =5000000,Customer__c=cust_id)
9         };
10        Database.SaveResult[] srlst= Database.insert(billings,false);
11
12        for(Database.SaveResult li : srlst){
13            if(li.isSuccess()){
14                System.debug('Record Inserted , Billing ID: '+li.getId());
15            }
16            else{
17                for(Database.Error e: li.getErrors()){
18                    System.debug(e.getStatusCode() + ' : ' +e.getMessage());
19                    System.debug('Billing fields which are having errors: '+e.getFields());
20                }
21            }
22        }
23    }
24 }

```

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
BALAHAN PIRADULLA	Unknown	/services/data/v57.0/testing/insert...	23/02/2023, 15:41:58	Success		5.46 KB
BALAHAN PIRADULLA	Unknown	/services/data/v57.0/testing/insert...	23/02/2023, 15:33:59	Success		6.54 KB
BALAHAN PIRADULLA	Unknown	ApexTestHandler	23/02/2023, 15:28:37	Success		2.3 KB
BALAHAN PIRADULLA	Unknown	ApexTestHandler	23/02/2023, 15:28:37	Success		5.76 KB
BALAHAN PIRADULLA	Unknown	ApexTestHandler	23/02/2023, 15:28:36	Success	Unread	877 bytes
BALAHAN PIRADULLA	Unknown	/services/data/v57.0/testing/insert...	23/02/2023, 15:28:05	Apex CPU time limit exceeded	Unread	17.67 MB

Filter Click here to filter the log list



Exercise – 11

Displaying Records According to the required conditions

Running-fox-ff0p1-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSPage

File • Edit • Debug • Test • Workspace • Help •

BillingRecord.apex • Opportunity@10:28 AM • Opportunity@10:28 AM

Select AccountId, Amount, Name, StageName, Account.Industry, Account.Website FROM Opportunity where Account.Industry = 'Energy' AND Account.AnnualRevenue > 5000

Query Results - Total Rows: 10

AccountId	Amount	Name	StageName	Account.Industry	Account.Website
0012400001130HAA8	125000	United Oil Office Portable Generators	Negotiation/Review	Energy	http://www.uoa.com
0012400001130HAA8	270000	United Oil Refinery Generators	Proposal/Price Quote	Energy	http://www.uoa.com
0012400001130HAA8	130000	United Oil SLA	Closed Won	Energy	http://www.uoa.com
0012400001130HAA8	270000	United Oil Installations	Negotiation/Review	Energy	http://www.uoa.com
0012400001130HAA8	270000	United Oil Installations	Closed Won	Energy	http://www.uoa.com
0012400001130HAA8	915000	United Oil Refinery Generators	Closed Won	Energy	http://www.uoa.com
0012400001130HAA8	235000	United Oil Installations	Closed Won	Energy	http://www.uoa.com
0012400001130HAA8	440000	United Oil Emergency Generators	Closed Won	Energy	http://www.uoa.com
0012400001130HAA8	130000	United Oil Standby Generators	Closed Won	Energy	http://www.uoa.com
0012400001130HAA8	675000	United Oil Plant Standby Generators	Needs Analysis	Energy	http://www.uoa.com

Query Grid: Save Rows Import Row Delete Row Refresh Grid

Access in Salesforce: Create New Open Detail Page Edit Page

Log • Trail Checkpoints Query Editor View State Progress Problems

Select AccountId, Amount, Name, StageName, Account.Industry, Account.Website FROM Opportunity where Account.Industry = 'Energy' AND Account.AnnualRevenue > 5000

Any query errors will appear here...

History

Executed

Select Account, PkId, c, Status, c from Billing, c where Status, c...

Select AccountId, Amount, Name, StageName FROM Opportunity

Select AccountId, Amount, Name, StageName, Account.Industry, Account...

Execute Use Tooling API

Exercise – 12

Created a Trigger for Billing Named CustomerTrigger

Developer Console

Running-fox-ff0p1-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSPage

File • Edit • Debug • Test • Workspace • Help •

DisplayMyTestLead.apex • CustomerTrigger.apex • AccountList.apex • AccountList.apex • ReviewCaseListController.apex

Code Coverage: None API Version: 57

```

1 trigger CustomerTrigger on Customer_c (after update) {
2     if (Trigger.isUpdate && Trigger.isAfter) {
3         List<Customer_c> cus = Trigger.new;
4         for (Customer_c obj : cus) {
5             if (obj.Active_c == True) {
6                 Billing_c bill = new Billing_c();
7                 bill.Customer_c = obj.Id;
8                 bill.Status_c = 'Paid';
9                 bill.AmountPaid_o = 1000000;
10                insert bill;
11            }
12        }
13    }
14 }
15

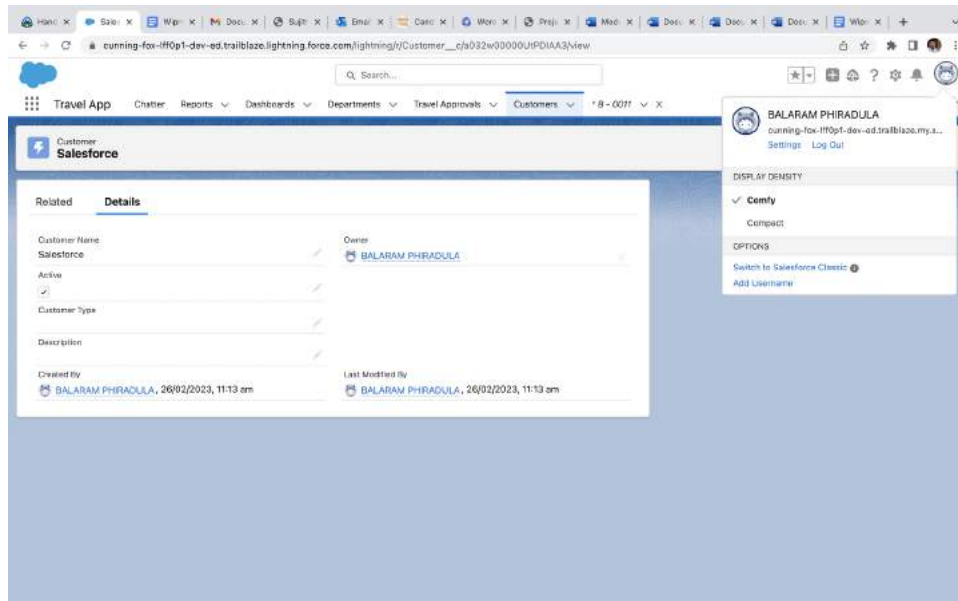
```

Log • Trail Checkpoints Query Editor View State Progress Problems

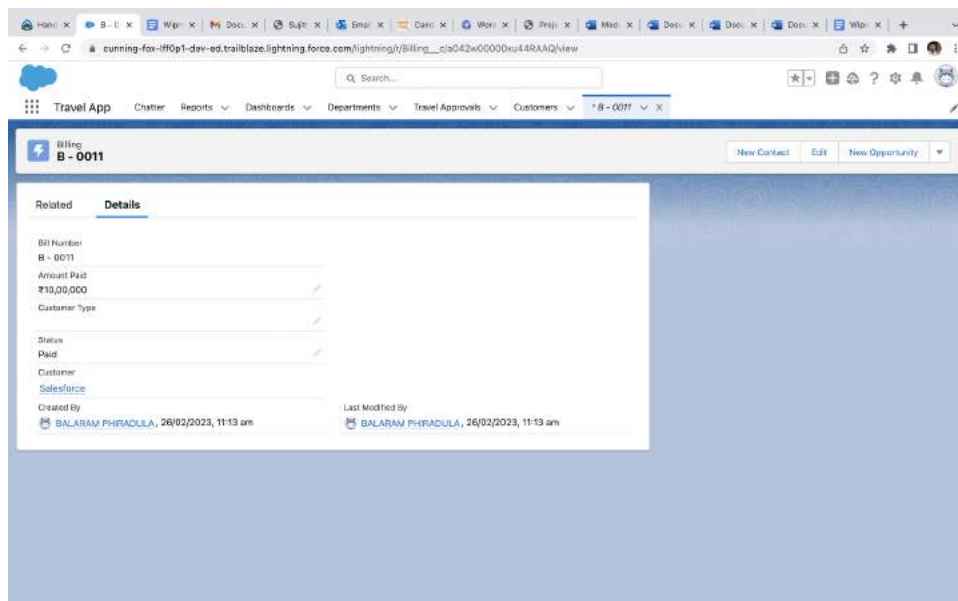
User	Application	Operation	Time	Status	Read	Size
BAJARAN PIRADJALA	Unknown	ApexTestHandler	26/10/2023, 11:06:34	Success	Unread	2.31 KB
BAJARAN PIRADJALA	Unknown	ApexTestHandler	26/10/2023, 11:06:34	Success	Unread	477 bytes
BAJARAN PIRADJALA	Unknown	ApexTestHandler	26/10/2023, 11:06:34	Insert failed. First exception on row ...	Unread	18.83 KB
BAJARAN PIRADJALA	Unknown	ApexTestHandler	26/10/2023, 11:06:34	Success	Unread	8.71 KB
BAJARAN PIRADJALA	Unknown	ApexTestHandler	26/10/2023, 11:06:34	Success	Unread	5.79 KB
BAJARAN PIRADJALA	Unknown	ApexTestHandler	26/10/2023, 11:01:43	Success	Unread	975 bytes

Filter Click here to filter the log list

Updated Salesforce Customer from in active to active



New Record Created in Billing Object with Salesforce as Customer



Exercise – 13

Created a Test class for CustomTrigger

The screenshot shows the Salesforce IDE with a test class named `CustomerTrigger.apex`. The code defines a `CustomerTrigger` class with a `testCustomer()` method. This method creates a `Customer__c` object, inserts it, updates its `Active__c` field to `True`, and then creates a `Billing__c` object, inserting it with a status of `Paid` and an amount of `1000000`. It also includes assertions to verify the status and amount.

```
1  @isTest
2  public class CustomerTrigger {
3
4      @isTest
5      static void testCustomer(){
6          Customer__c cust1 = new Customer__c();
7          cust1.Name='test1';
8          cust1.Customer_Type__c = 'Premium';
9          insert cust1;
10         cust1.Active__c = True;
11         update cust1;
12         if(cust1.Active__c == True){
13             Test.startTest();
14             Billing__c billing = new Billing__c();
15             billing.Status__c = 'Paid';
16             billing.Amount_Paid__c = 1000000;
17             Test.stopTest();
18             system.assertEquals('Paid', billing.Status__c);
19             system.assertEquals(1000000, billing.Amount_Paid__c);
20         }
21     }
22 }
23
```

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

User	Application	Operation	Time	Status	Read	Size
BAHARAH PIRAKOULA	Unknown	ApexTestHandler	24/02/2023, 12:27:03	Success	Unread	8.72 KB
BAHARAH PIRAKOULA	Unknown	ApexTestHandler	24/02/2023, 12:27:02	Success	Unread	962 bytes
BAHARAH PIRAKOULA	Unknown	ApexTestHandler	24/02/2023, 12:27:02	Success	Unread	2.31 KB
BAHARAH PIRAKOULA	Unknown	ApexTestHandler	24/02/2023, 12:27:02	Success	Unread	5.79 KB
BAHARAH PIRAKOULA	Unknown	ApexTestHandler	24/02/2023, 12:25:41	Success	Unread	3.3 KB
BAHARAH PIRAKOULA	Unknown	ApexTestHandler	24/02/2023, 12:25:41	Success	Unread	879 bytes

Exercise – 14

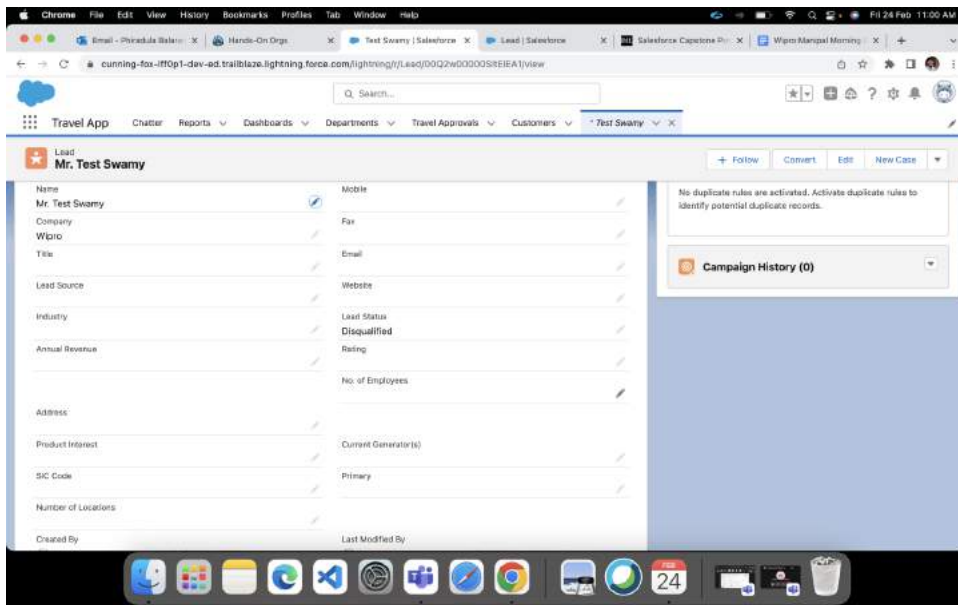
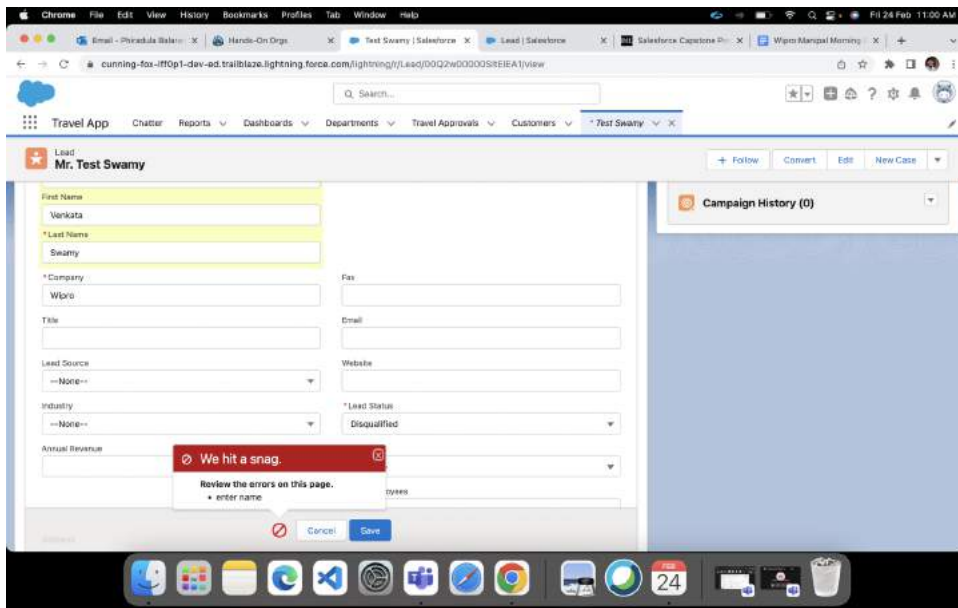
Created a Trigger for Leads Named DisqualifyTestLeads

The screenshot shows the Salesforce IDE with a trigger named `DisqualifyTestLeads.apex`. The trigger is set to fire on the `Lead` object before insert, after insert, before update, and after update. It checks if the lead's first name is 'Test' or if the last name is blank. If either condition is met, it adds an error to the lead and sets its status to `Disqualified`.

```
1  trigger DisqualifyTestLeads on Lead (before insert,after insert,before update) {
2      List<Lead> l = new List<Lead>();
3      for(Lead led: Trigger.New)
4          if((String.isNotBlank(led.FirstName) && led.FirstName=='Test') || (String.isNotBlank(led.LastName) && led.LastName==''))
5              system.debug(led.FirstName + ' ' + led.LastName + ' Will be disqualified');
6
7          l.add(led);
8
9      }
10
11     else
12     {
13         led.AddError('enter name');
14         for(Lead l1:l){
15             l1.Status='Disqualified';
16         }
17     }
18 }
19
20
```

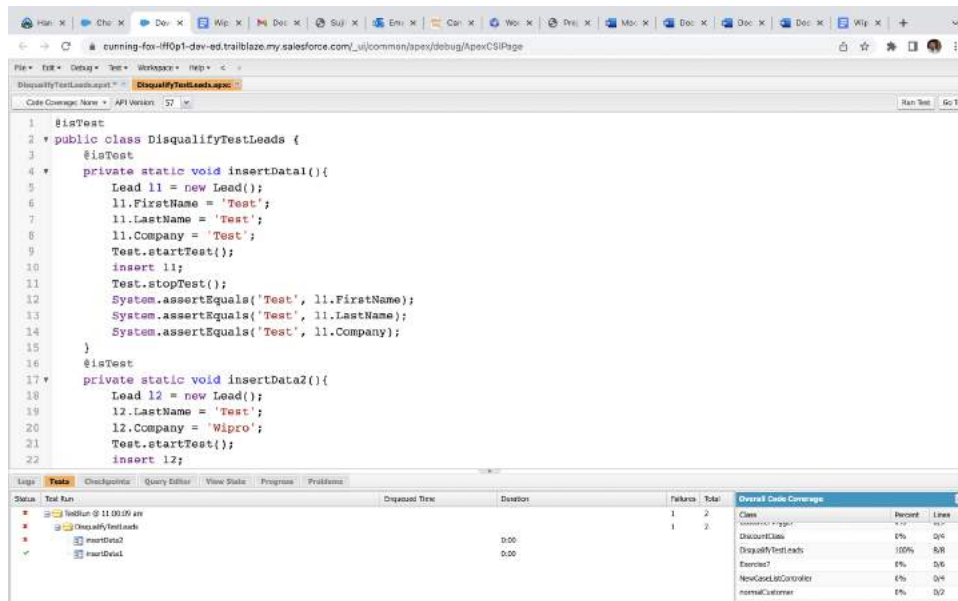
Below the code editor is a log table with the following data:

User	Application	Operation	Time	Status	Read	Size
BAHARAH PIRAKOULA	Browser	Java	24/02/2023, 10:52:32	Success	Unread	5.52 KB
BAHARAH PIRAKOULA	Browser	Java	24/02/2023, 10:52:16	Success	Unread	3.96 KB
BAHARAH PIRAKOULA	Browser	Java	24/02/2023, 10:50:56	Success	Unread	4.2 KB
BAHARAH PIRAKOULA	Browser	Java	24/02/2023, 10:50:55	Success	Unread	6.6 KB
BAHARAH PIRAKOULA	Unknown	ApexTestHandler	24/02/2023, 10:50:39	Success	Unread	3.3 KB
BAHARAH PIRAKOULA	Unknown	ApexTestHandler	24/02/2023, 10:50:23	Success	Unread	877 bytes



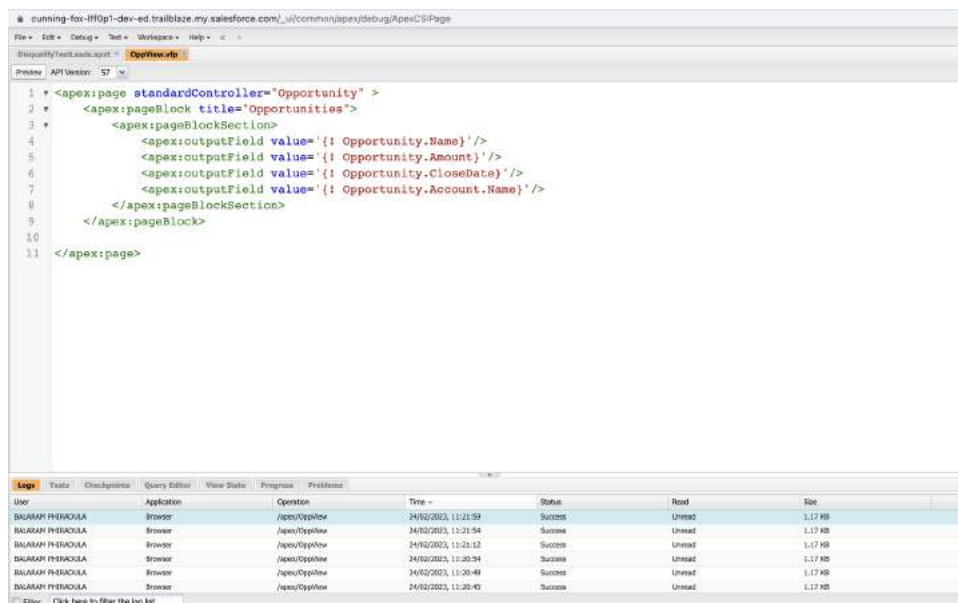
Exercise – 15

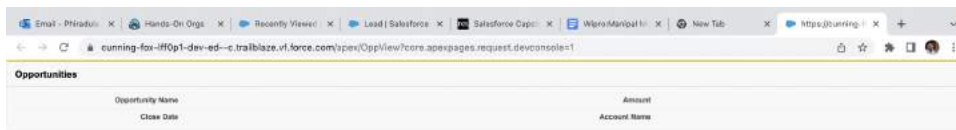
Created a test class for DisqualifyTestLeads trigger



Exercise – 16

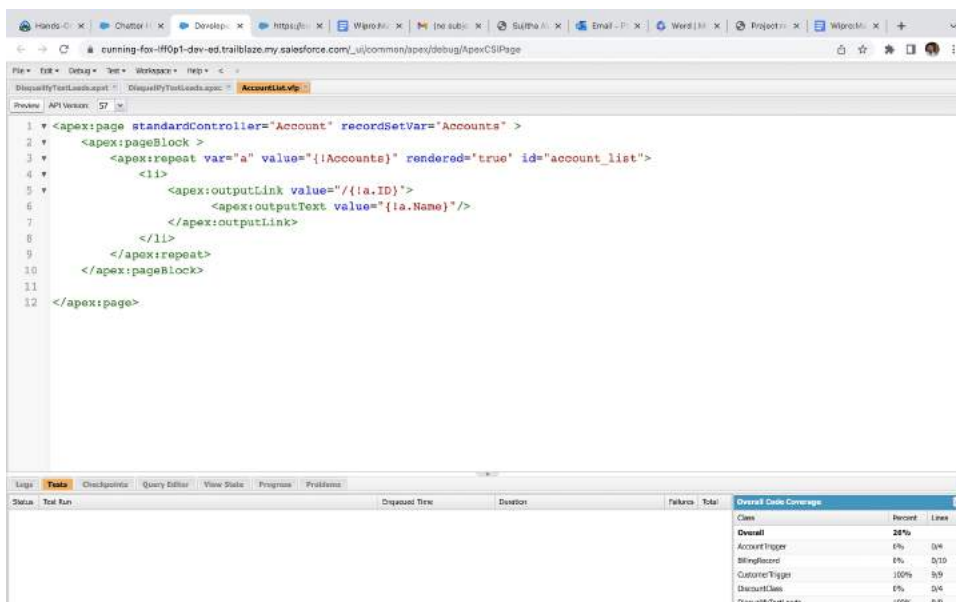
Created a Visualforce Page OppView and displayed four apex: outputfields





Exercise – 17

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



Exercise – 18

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

The screenshot shows the Salesforce Developer Console. The top pane displays the Apex code for the `NewCaseListController` class:

```

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

```

The bottom pane shows a table of test results:

User	Test	Checkpoint	Query Editor	View State	Progress	Problems	Time	Status	Reed	Size
BAKARAN PIRABADIA	Unknown	Unknown	ApexTestHandler	26/02/2023, 11:00:34	Success	Unread	2.21 KB			
BAKARAN PIRABADIA	Unknown	Unknown	ApexTestHandler	26/02/2023, 11:00:34	Success	Unread	877 bytes			
BAKARAN PIRABADIA	Unknown	Unknown	ApexTestHandler	26/02/2023, 11:00:34	Insert failed. First exception on row ...	Unread	15.83 KB			
BAKARAN PIRABADIA	Unknown	Unknown	ApexTestHandler	26/02/2023, 11:00:34	Success	Unread	8.71 KB			
BAKARAN PIRABADIA	Unknown	Unknown	ApexTestHandler	26/02/2023, 11:00:34	Success	Unread	5.79 KB			
BAKARAN PIRABADIA	Unknown	Unknown	ApexTestHandler	26/02/2023, 11:01:43	Success	Unread	875 bytes			

Developer Console | https://cunning-fox-ff0p1-dev-ed.trailblaze.my.salesforce.com/_ui/commen/apex/debug/ApexCSIPage

File | Edit | Debug | Test | Visualforce | Help | < | > |

Debugging Test Cases.appt | OppView.rpt | CustomerTrigger.apex | NewCaseListController.apex | **NewCaseListController.rpt**

Preview | API Version: 57

```

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

```

Logs | Trails | Checkpoints | Query Editor | View State | Progress | Problems

User	Application	Operation	Time	Status	Read	Size
BAJAMH P BHADJULA	Browser	Apex/NewCaseListController	25/10/2023, 10:30:53	Success	Unread	3.49 KB
BAJAMH P BHADJULA	Browser	Apex/NewCaseListController	25/10/2023, 10:30:53	Success	Unread	3.47 KB
BAJAMH P BHADJULA	Browser	Apex/NewCaseListController	25/10/2023, 10:30:54	Success	Unread	3.47 KB
BAJAMH P BHADJULA	Unknown	ApexTestHandler	25/10/2023, 10:30:42	Success	Unread	8.73 KB
BAJAMH P BHADJULA	Unknown	ApexTestHandler	25/10/2023, 10:30:43	Success	Unread	5.76 KB
BAJAMH P BHADJULA	Unknown	ApexTestHandler	25/10/2023, 10:30:42	Success	Unread	989 bytes

Filter | Click here to filter the log list

Developer Console | https://cunning-fox-ff0p1-dev-ed-trailblaze.vf.force.com/servlet/NewCaseListController?core.apexpages.request.devconsole=1

5002w00000fh0qNAAQ 00001002

5002w00000fh0qbAAA 00001016

5002w00000fh0qjAAA 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](#)