



Capstone Project Report On “Travel application on Salesforce Technology ”

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Date: 28/02/2023

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Abstract

The Salesforce Travel App is a comprehensive travel management solution that helps travel agencies and tour operators streamline their business processes. The app offers a range of features that allow businesses to manage customer interactions, bookings, and payments. It also enables businesses to offer personalized travel packages to their customers, increasing customer satisfaction and loyalty.

The travel app built on Salesforce technology is a web-based application that leverages data from multiple sources to provide personalized recommendations to customers. The app's seamless booking process, real-time updates, customer support, and loyalty programs make it a great choice for customers looking for convenient and enjoyable travel planning experiences.

The report highlights the benefits of using Salesforce technology for travel companies, including increased efficiency, improved customer experiences, and increased revenue. The technology's integration with Salesforce's Customer 360 platform allows travel companies to create a single view of the customer, which can help them better understand their customers' needs and preferences.

Overall, this report provides valuable insights into the potential of Salesforce technology in the travel industry. It encourages travel companies to leverage this technology to improve customer experiences, increase customer loyalty, and drive revenue growth.

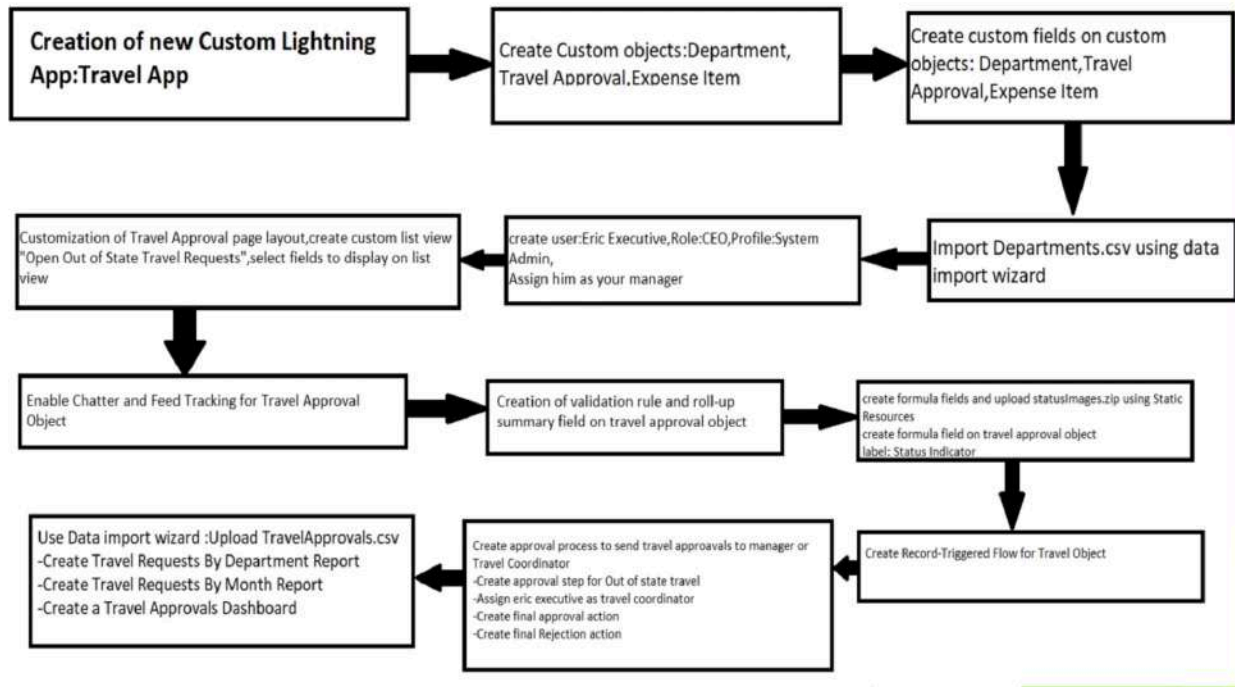
Introduction

Travel industry is one of the largest and most competitive industries in the world. With the rise of digitalization, customers are now preferring to book their travel plans online, hence increasing the demand for travel apps. Salesforce technology has been used to develop a travel app that is aimed at providing seamless and personalized experiences to customers.

Travel is one of the largest industries in the world, and with the rise of technology, the travel industry has been transformed. Today, there are many travel apps that allow travelers to book flights, hotels, rental cars, and more from the comfort of their own home. Salesforce technology is a popular platform for building travel apps due to its robust features and scalability. In this report, we will discuss the benefits of using Salesforce technology to build a travel app, and how it can improve the overall customer experience.

The travel app built on Salesforce technology is a web-based application that allows customers to book their travel plans online. The app is designed to provide personalized experiences to customers by leveraging data about their preferences and behaviors. It is built using Salesforce's Customer 360 platform, which integrates data from multiple sources to create a single view of the customer.

Flow of the Project



Software Requirements

For the fastest and most stable experience, we recommend:

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

Minimum requirements are:

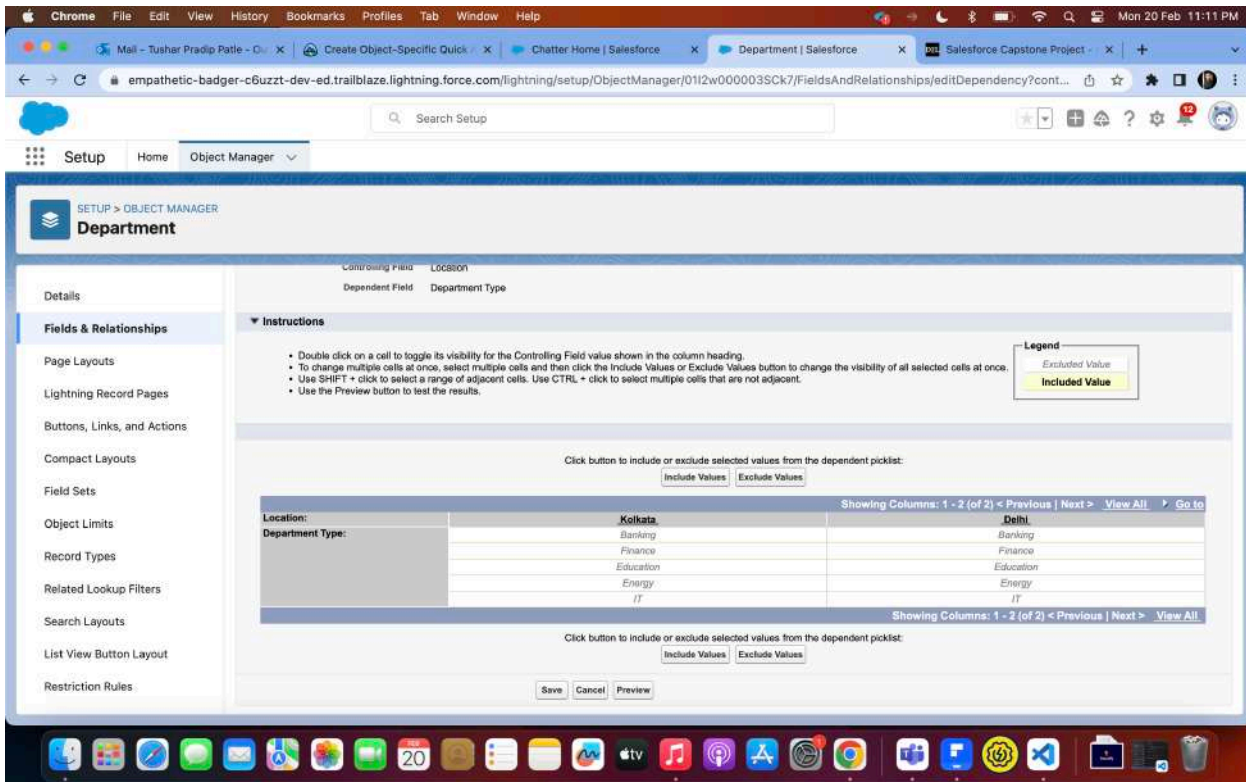
- An Octane 2.0 score of 20,000 or greater
- Network latency of 200 ms or less
- Download speed of 1 Mbps or greater
- At least 5 GB of RAM, with 2 GB available for Salesforce browser tabs

OR

Requirements	
Windows	
Operating system	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

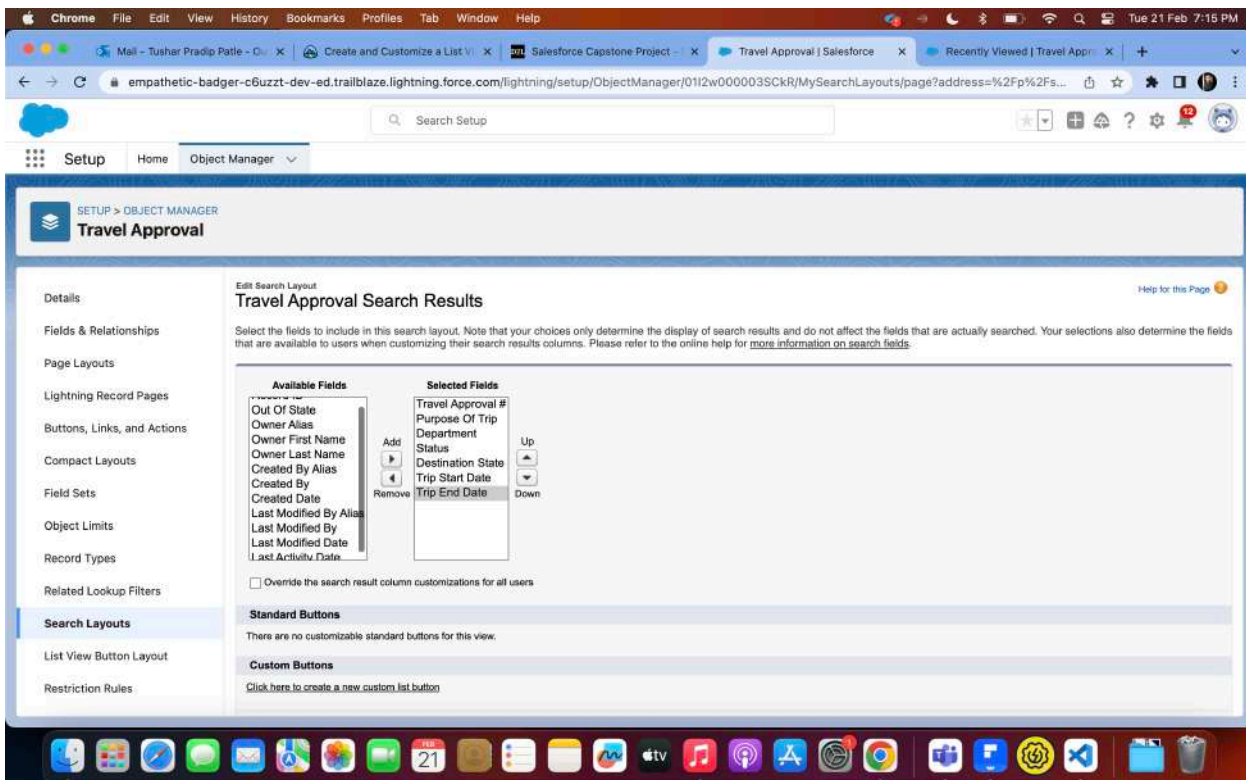
ScreenShots

Module 1:



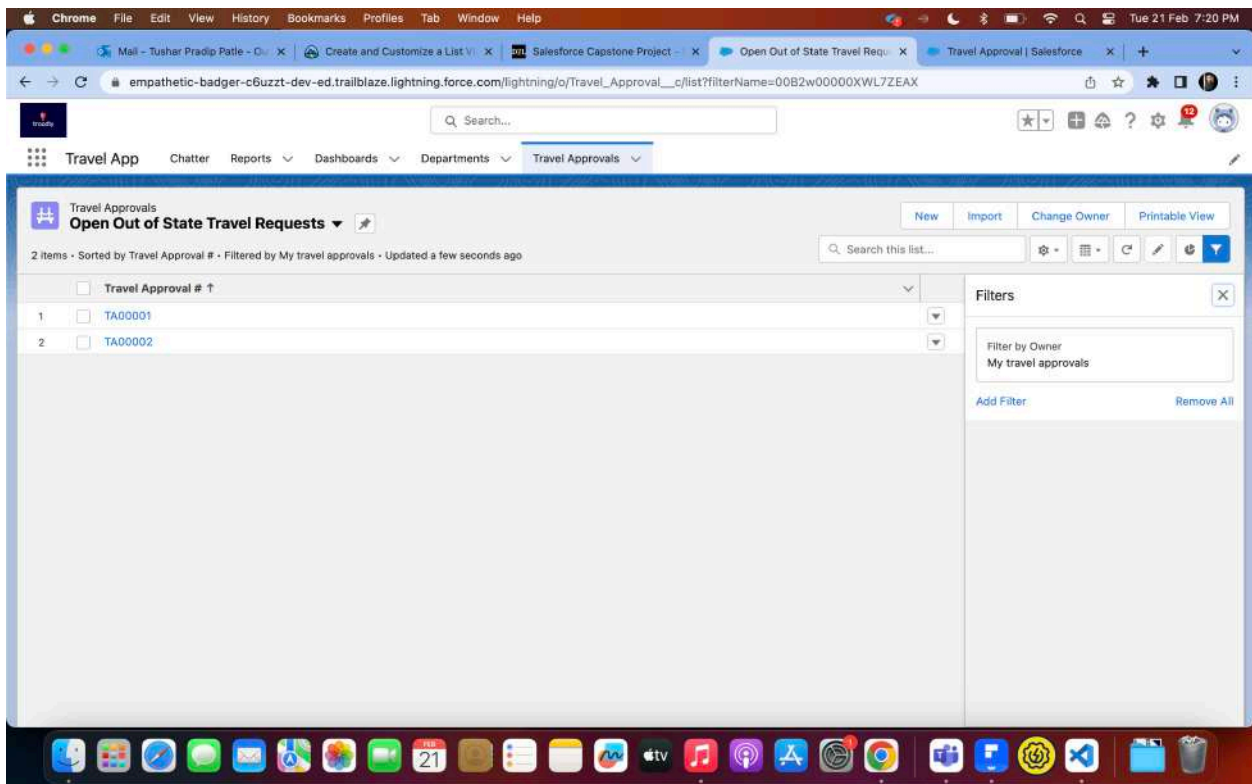
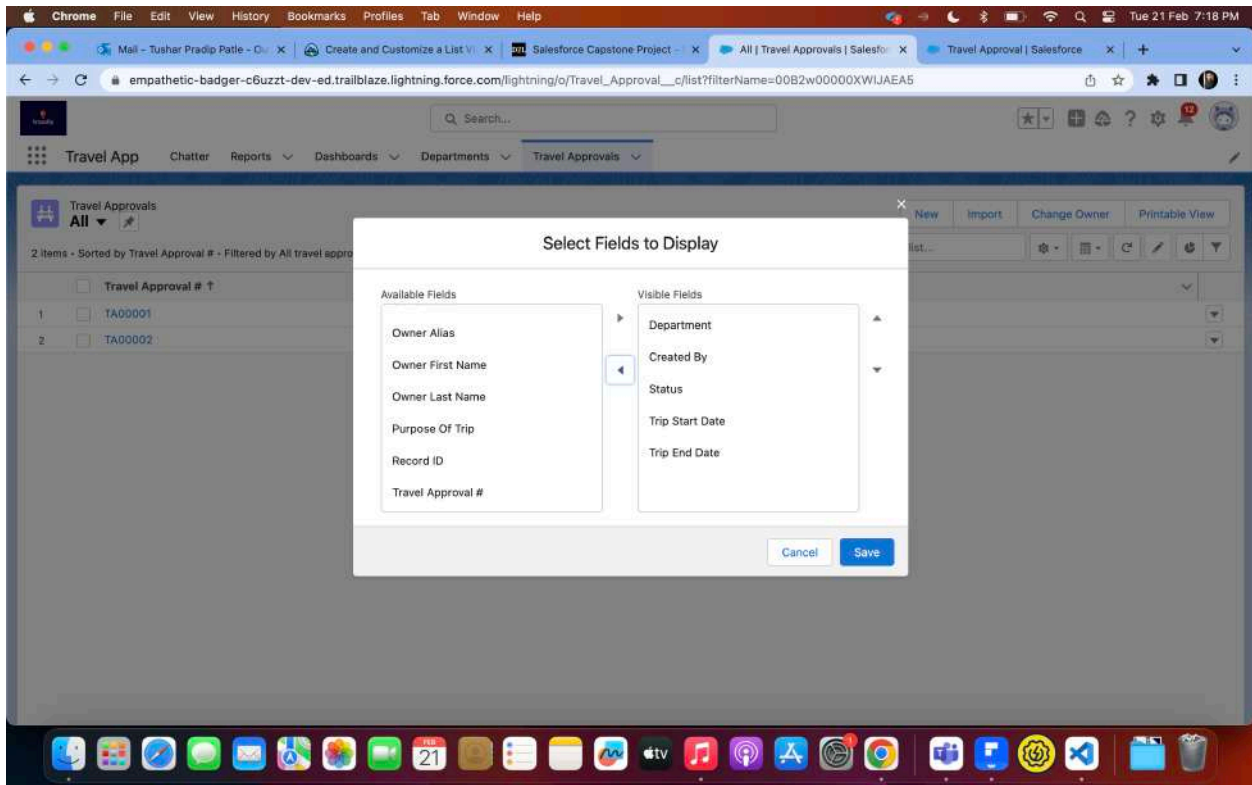
This screenshot shows the Salesforce Setup interface for the 'Department' object. The left sidebar contains navigation links: Details, Fields & Relationships (selected), Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, and Restriction Rules. The main content area is titled 'Department' and includes a 'Details' section with 'Controlling Field' (LOCATION) and 'Dependent Field' (Department Type). Below this is an 'Instructions' section with a legend for 'Excluded Value' (grey) and 'Included Value' (yellow). A table shows the relationship between 'Location' and 'Department Type'. The table has two columns: 'Location' and 'Department Type'. The first row shows 'Kolkata' and 'Banking'. The second row shows 'Dehi' and 'Banking'. The third row shows 'Banking' and 'Finance'. The fourth row shows 'Finance' and 'Education'. The fifth row shows 'Education' and 'Energy'. The sixth row shows 'Energy' and 'IT'. The table is titled 'Showing Columns: 1 - 2 (of 2) < Previous | Next > View All | Go to'. Below the table is a 'Click button to include or exclude selected values from the dependent picklist:' section with 'Include Values' and 'Exclude Values' buttons. At the bottom are 'Save', 'Cancel', and 'Preview' buttons.

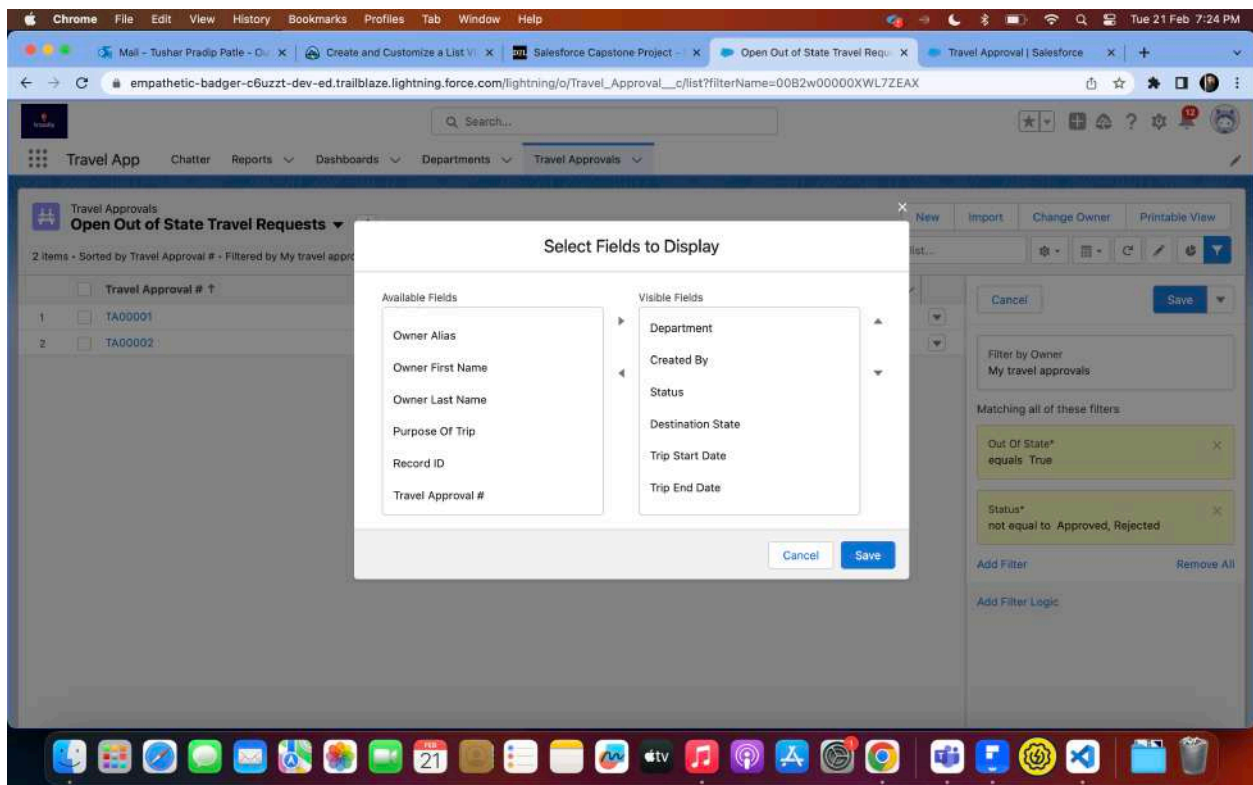
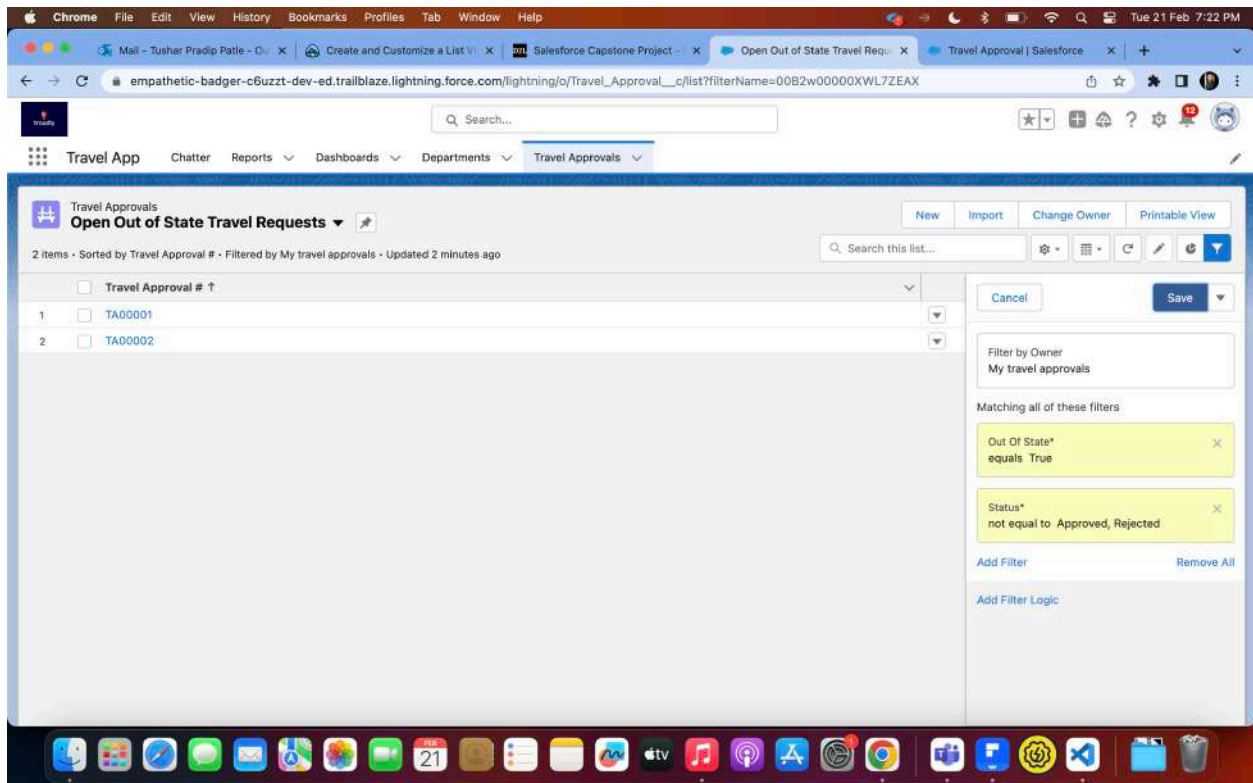
Location	Department Type
Kolkata	Banking
Dehi	Banking
Banking	Finance
Finance	Education
Education	Energy
Energy	IT

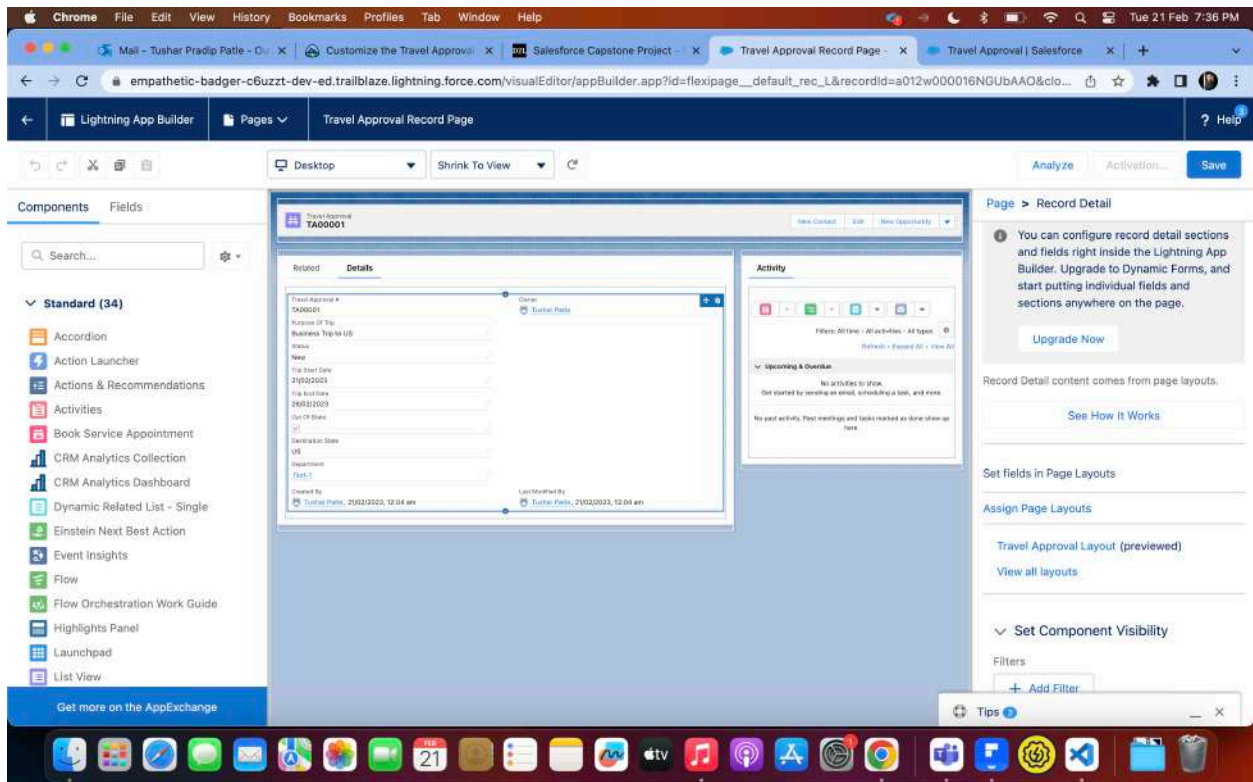
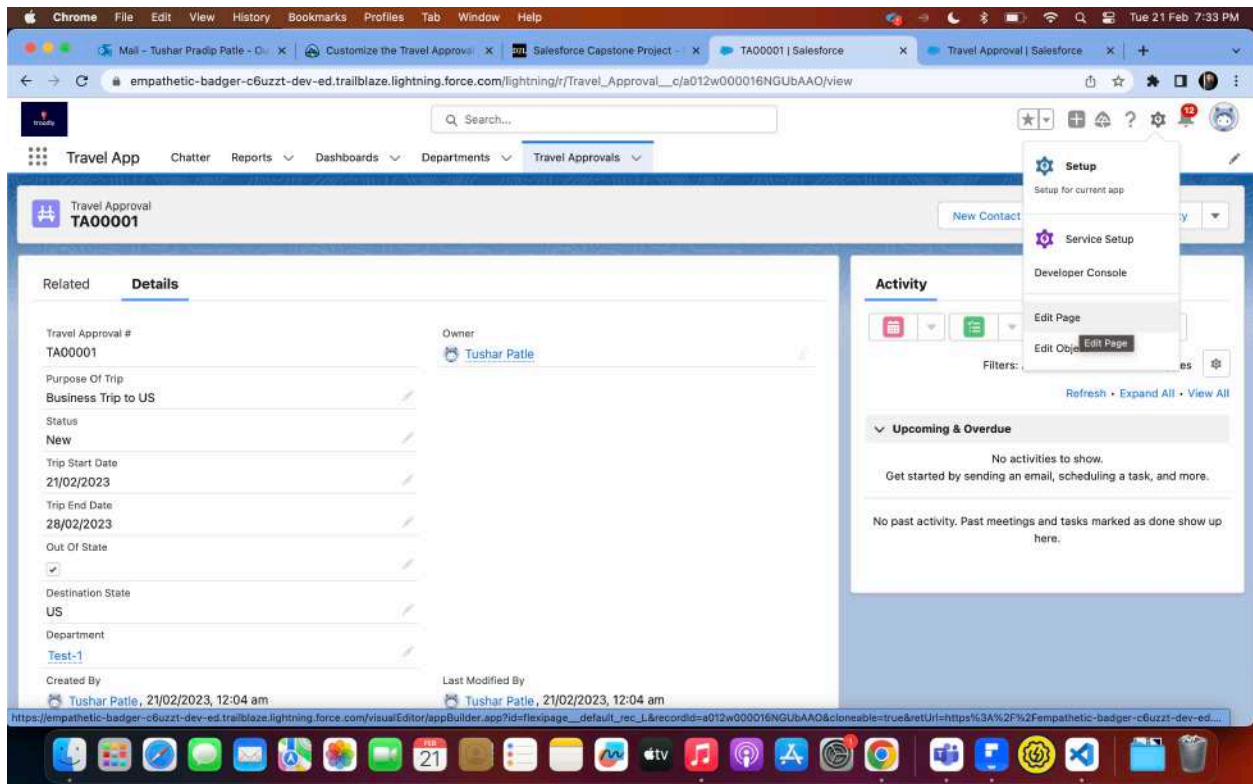


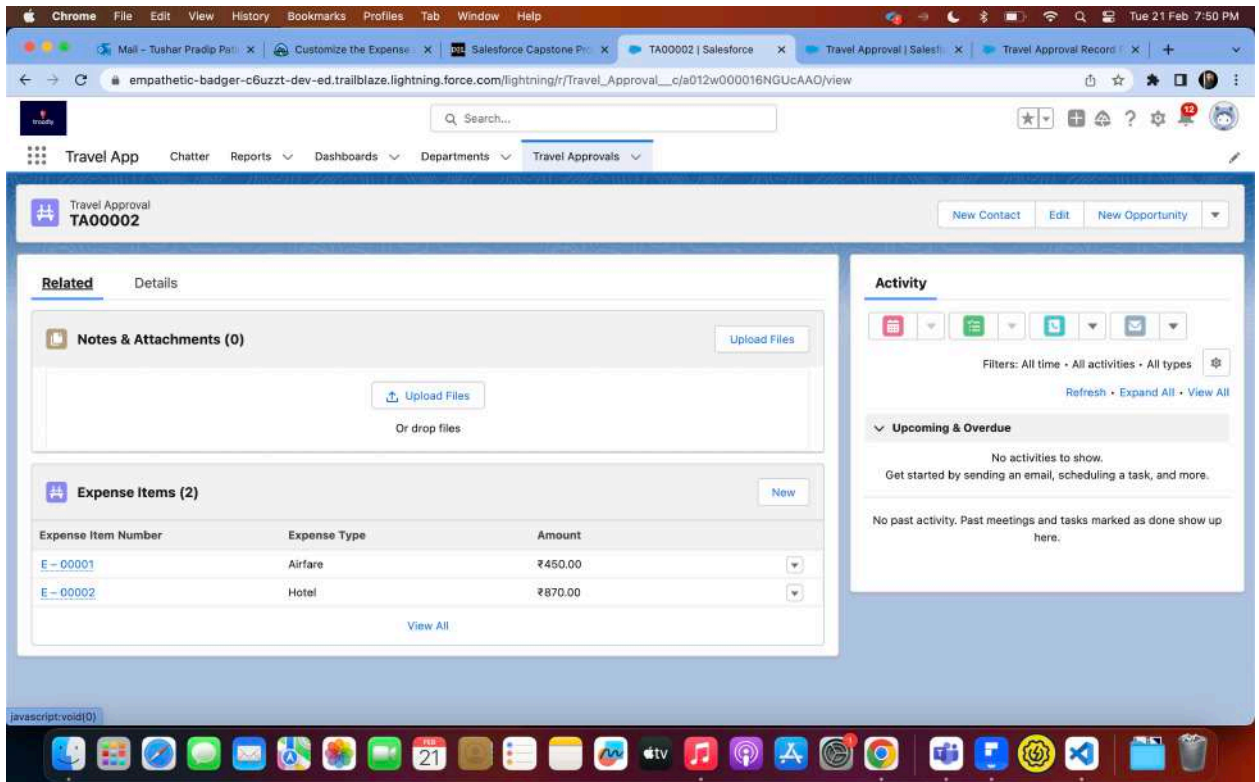
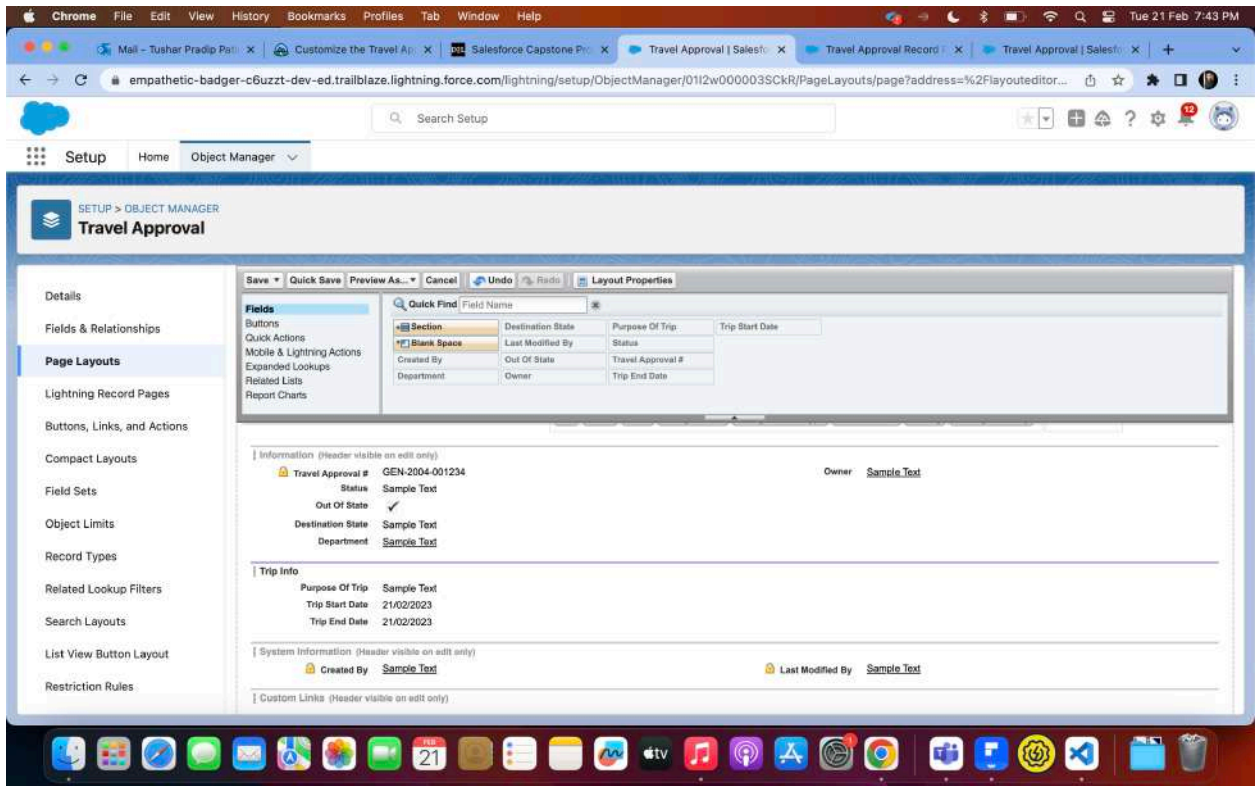
This screenshot shows the Salesforce Setup interface for the 'Travel Approval' object. The left sidebar contains navigation links: Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts (selected), List View Button Layout, and Restriction Rules. The main content area is titled 'Travel Approval' and includes an 'Edit Search Layout' section. Below this is a 'Travel Approval Search Results' section with instructions on how to select fields. A table shows the relationship between 'Available Fields' and 'Selected Fields'. The table has two columns: 'Available Fields' and 'Selected Fields'. The first row shows 'Out Of State' and 'Travel Approval #'. The second row shows 'Owner Alias' and 'Purpose Of Trip'. The third row shows 'Owner First Name' and 'Department'. The fourth row shows 'Owner Last Name' and 'Status'. The fifth row shows 'Created By Alias' and 'Destination State'. The sixth row shows 'Created By' and 'Trip Start Date'. The seventh row shows 'Created Date' and 'Trip End Date'. The eighth row shows 'Last Modified By Alias' and 'Trip End Date'. The ninth row shows 'Last Modified By' and 'Trip End Date'. The tenth row shows 'Last Modified Date' and 'Trip End Date'. The table is titled 'Showing Columns: 1 - 2 (of 2) < Previous | Next > View All | Go to'. Below the table is a 'Click button to include or exclude selected values from the dependent picklist:' section with 'Include Values' and 'Exclude Values' buttons. At the bottom are 'Save', 'Cancel', and 'Preview' buttons.

Available Fields	Selected Fields
Out Of State	Travel Approval #
Owner Alias	Purpose Of Trip
Owner First Name	Department
Owner Last Name	Status
Created By Alias	Destination State
Created By	Trip Start Date
Created Date	Trip End Date
Last Modified By Alias	Trip End Date
Last Modified By	Trip End Date
Last Modified Date	Trip End Date









Chrome File Edit View History Bookmarks Profiles Tab Window Help Tue 21 Feb 7:52 PM

empathetic-badger-c6uzzt-dev-ed.trailblaze.lightning.force.com/lightning/setup/FeedTracking/home

Setup Home Object Manager

Search Setup

Feed Tracking

Enable feed tracking for objects so users can follow records of that object type. Select fields to track so users can see feed updates when those fields are changed on records they follow.

Problem Related Item
Product
Related Problem and Incident
Report
Report Anomaly Event Store
Service Contract
Session Hijacking Event Store
Site 0 Fields
Solution
Task
Threat Detection Feedback
Topic 1 Field
Travel Approval
User 6 Fields
Web Cart Document
Work Order
Work Order Line Item
Work Plan
Work Plan Template

Fields in travel approvals

Save Cancel Enable Feed Tracking Restores Defaults

You can select up to 9 fields.

Department	<input type="checkbox"/>	Destination State	<input checked="" type="checkbox"/>
Out Of State	<input type="checkbox"/>	Owner	<input type="checkbox"/>
Purpose Of Trip	<input type="checkbox"/>	Status	<input checked="" type="checkbox"/>
Travel Approval #	<input type="checkbox"/>	Trip End Date	<input type="checkbox"/>
Trip Start Date	<input type="checkbox"/>		

You can also display feed activity for related objects:

All Related Objects ☐

Chrome File Edit View History Bookmarks Profiles Tab Window Help Tue 21 Feb 8:04 PM

empathetic-badger-c6uzzt-dev-ed.trailblaze.lightning.force.com/lightning/page/chatter

Travel App Chatter Reports Dashboards Departments Travel Approvals

What I Follow
To Me
Bookmarked
Company Highlights
My Drafts

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

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

Sort by: Top Posts

Search this feed...

Tushar Patle 4m ago

@Eric Executive Which Department should I associate this travel request with?

1 comment · Seen by 1

Eric Executive a few seconds ago
Technology is the correct department
Like

Write a comment...

Einstein Recommendations

- Eric Executive Your manager + Follow Skip
- Integration User Joined today + Follow Skip
- Security User Joined today + Follow Skip

Chrome File Edit View History Bookmarks Profiles Tab Window Help Tue 21 Feb 12:23 AM

Mail - Tushar Pradip Patle - D... Import Data and Test the App... Salesforce Capstone Project - Home | Salesforce All | Departments | Salesforce

empathetic-badger-c6uzzt-dev-ed.trailblaze.lightning.force.com/lightning/o/Department___c/list?filterName=00B2w00000XWUJ5EAP

Search...

Travel App Chatter Reports Dashboards Departments Travel Approvals

Departments All

New Import Change Owner Printable View

17 Items - Sorted by Department Name - Filtered by All departments - Updated a few seconds ago

Search this list...

Department Name ↑

1	<input type="checkbox"/>	Audit Services	▼
2	<input type="checkbox"/>	Contract Management	▼
3	<input type="checkbox"/>	Disability Determination Bureau	▼
4	<input type="checkbox"/>	Division of Aging	▼
5	<input type="checkbox"/>	Division of Disability and Rehabilitative Services	▼
6	<input type="checkbox"/>	Division of Family Resources	▼
7	<input type="checkbox"/>	Division of Finance	▼
8	<input type="checkbox"/>	Division of Mental Health and Addiction	▼
9	<input type="checkbox"/>	Human Resources	▼
10	<input type="checkbox"/>	Legislative Services	▼
11	<input type="checkbox"/>	Office of Communications and Media	▼
12	<input type="checkbox"/>	Office of Early Childhood and Out-of-School Learning	▼
13	<input type="checkbox"/>	Office of General Counsel	▼
14	<input type="checkbox"/>	Office of Medicaid Policy and Planning	▼
15	<input type="checkbox"/>	Quality and Compliance Office	▼
16	<input type="checkbox"/>	Technology	▼

Mac OS dock with various application icons.

Chrome File Edit View History Bookmarks Profiles Tab Window Help Tue 21 Feb 12:04 AM

Mail - Tushar Pradip Patle - D... Create a Department Object U... Salesforce Capstone Project - TA00001 | Salesforce

empathetic-badger-c6uzzt-dev-ed.trailblaze.lightning.force.com/lightning/r/Travel_Approval___c/a012w000016NGUbAAQ/view

Search...

Travel App Chatter Reports Dashboards Departments Travel Approvals

Travel Approval TA00001

New Contact Edit New Opportunity

Related Details

Travel Approval # TA00001

Owner Tushar Patle

Purpose Of Trip Business Trip to US

Status New

Trip Start Date 21/02/2023

Trip End Date 28/02/2023

Out Of State ☒

Destination State US

Department Test-1

Created By Tushar Patle, 21/02/2023, 12:04 am

Last Modified By Tushar Patle, 21/02/2023, 12:04 am

Activity

Filters: All time • All activities • All types

Refresh • Expand All • View All

Upcoming & Overdue

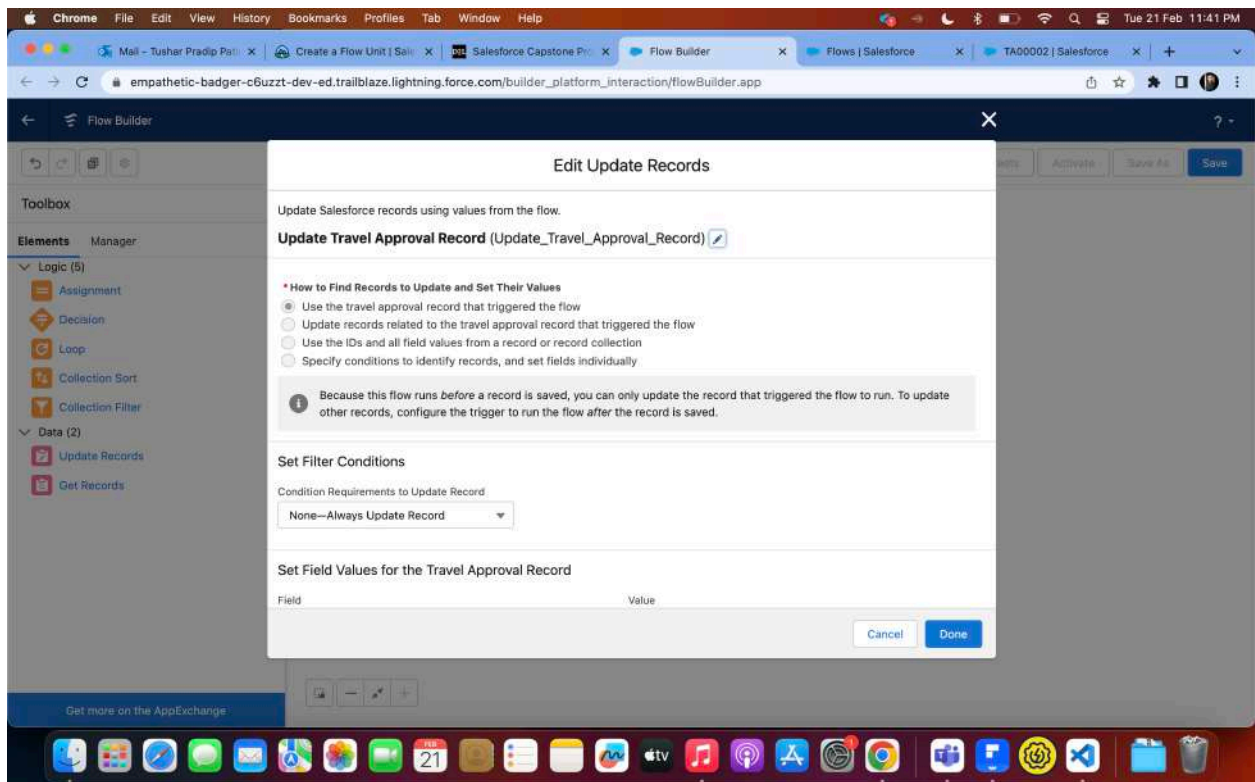
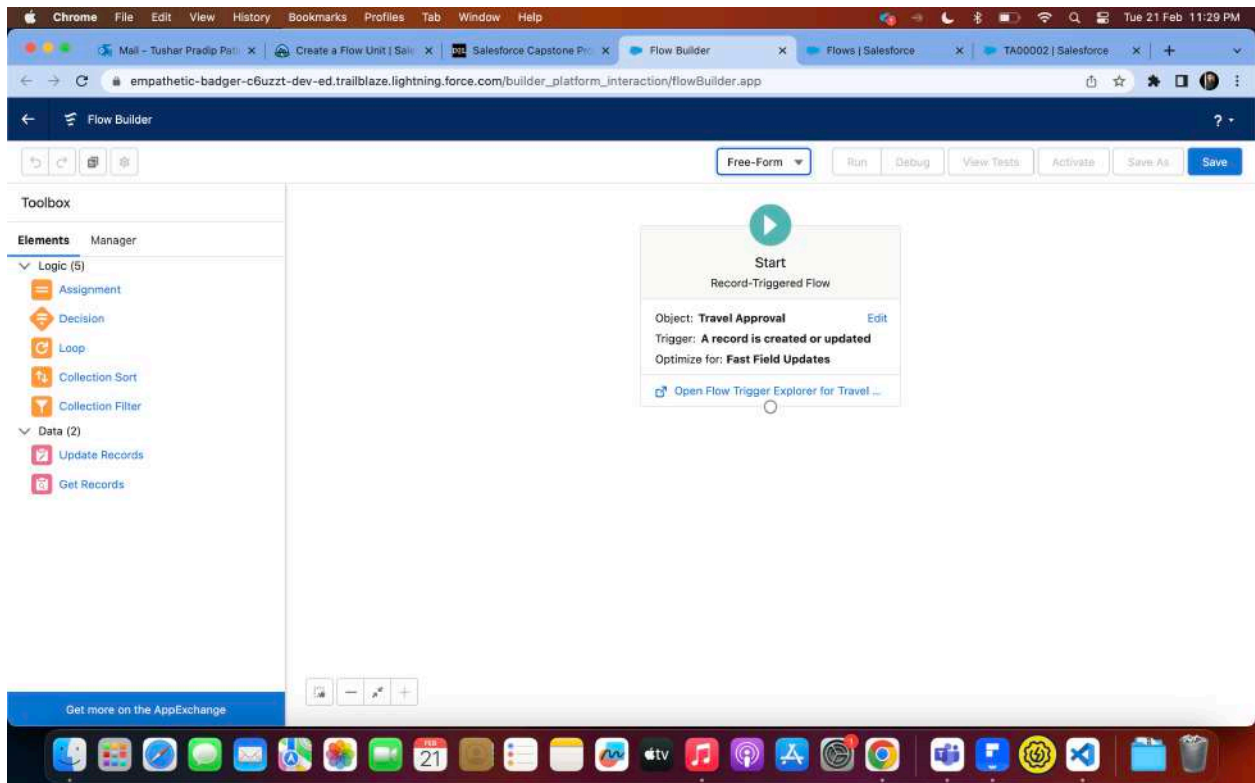
No activities to show.

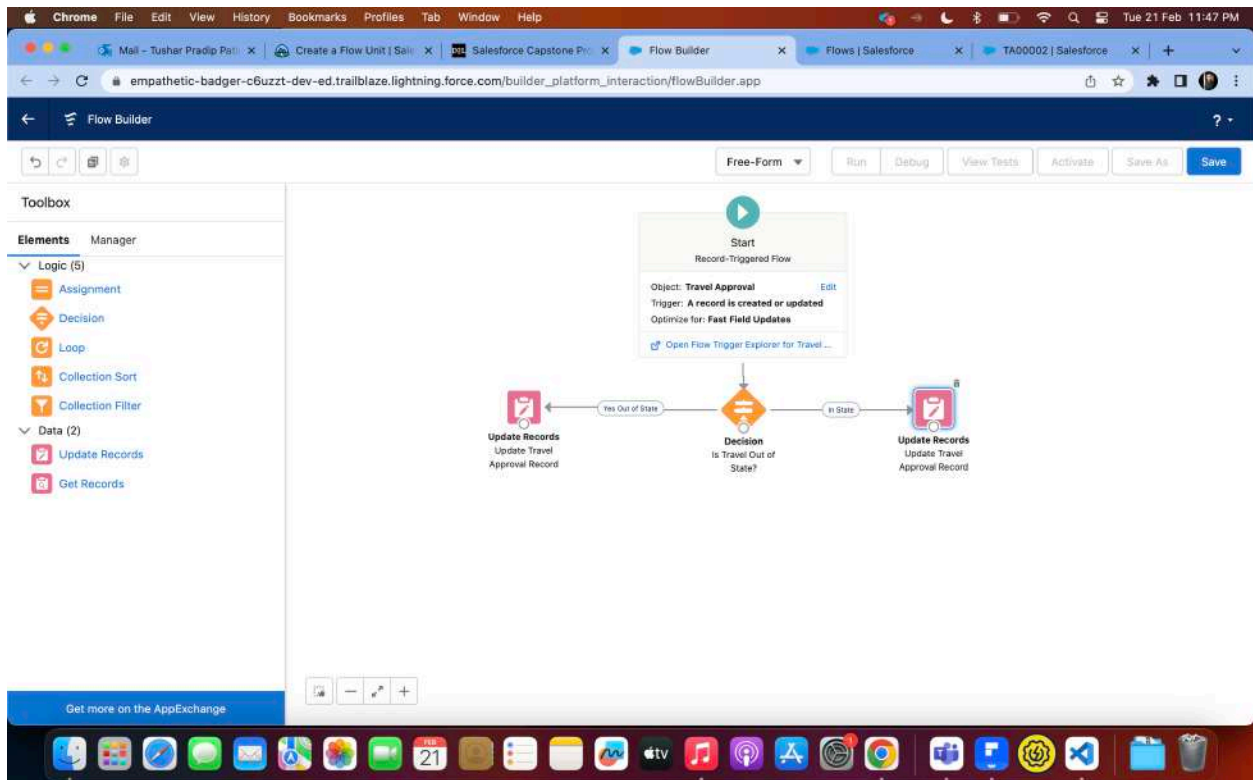
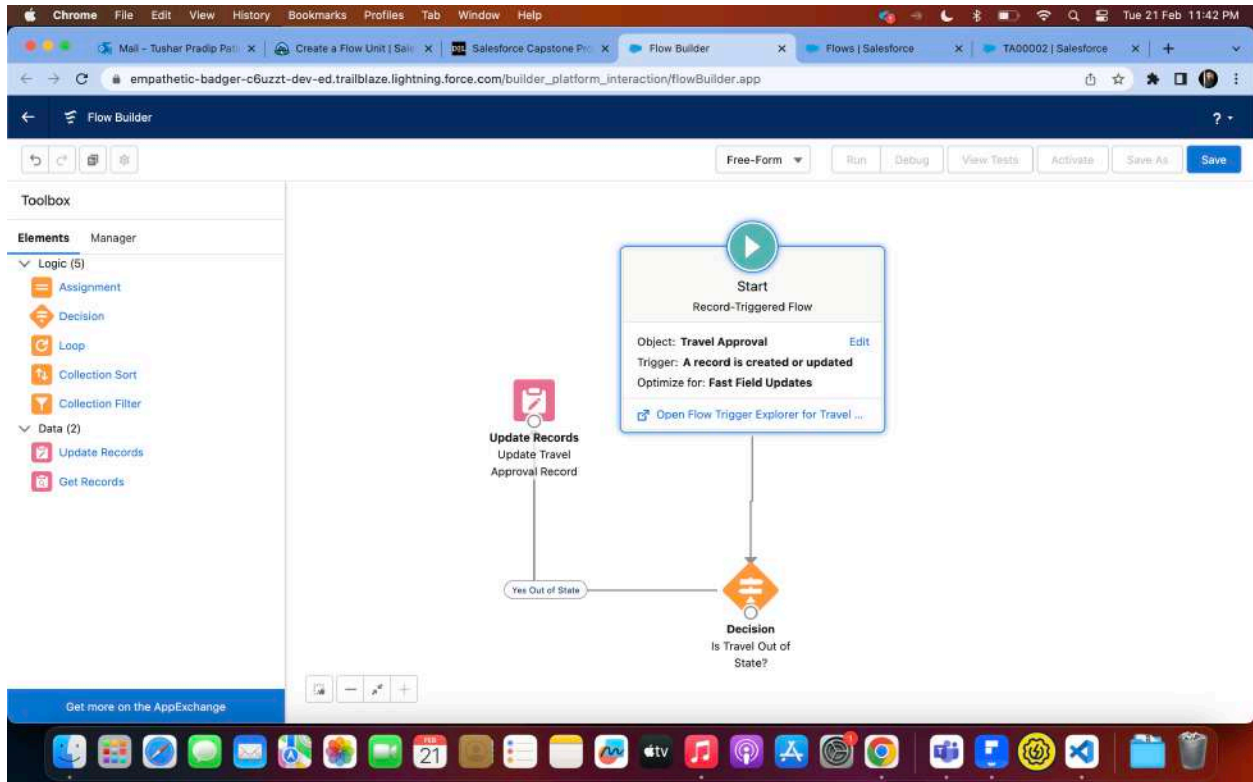
Get started by sending an email, scheduling a task, and more.

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

Mac OS dock with various application icons.

Module 2:





Chrome File Edit View History Bookmarks Profiles Tab Window Help

Sign out Test Your Approval Process U Salesforce Capstone Project TA00002 Approval | Salesforce Inbox (11,624) - tusharpattie

empathetic-badger-c6uzzt-dev-ed.trailblaze.lightning.force.com/lightning/r/ProcessInstanceWorkitem/04i2w000003P4Z2AAK/view

Search...

Travel App Chatter Reports Dashboards Departments Travel Approvals TA00002 Approval

Approval Request
Travel Approval Approval Pending Approve Reject Reassign

Submitter: Tushar Patle Date Submitted: 22-Feb-2023 Actual Approver: Eric Executive Assigned To: Eric Executive

Details

Approval Details

Travel Approval # TA00002 Owner: Tushar Patle

Submitter Comments

Tushar Patle
Please Approve
22-Feb-2023, 12:15:02 am

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Mail - Tushar Pradip Patle - O Load Data Using the Data Imp Bulk Data Load Jobs | Salesforce All | Travel Approvals | Salesforce Salesforce Capstone Project

empathetic-badger-c6uzzt-dev-ed.trailblaze.lightning.force.com/lightning/o/Travel_Approval__c/list?filterName=00B2w00000XWJIAEA5

Search...

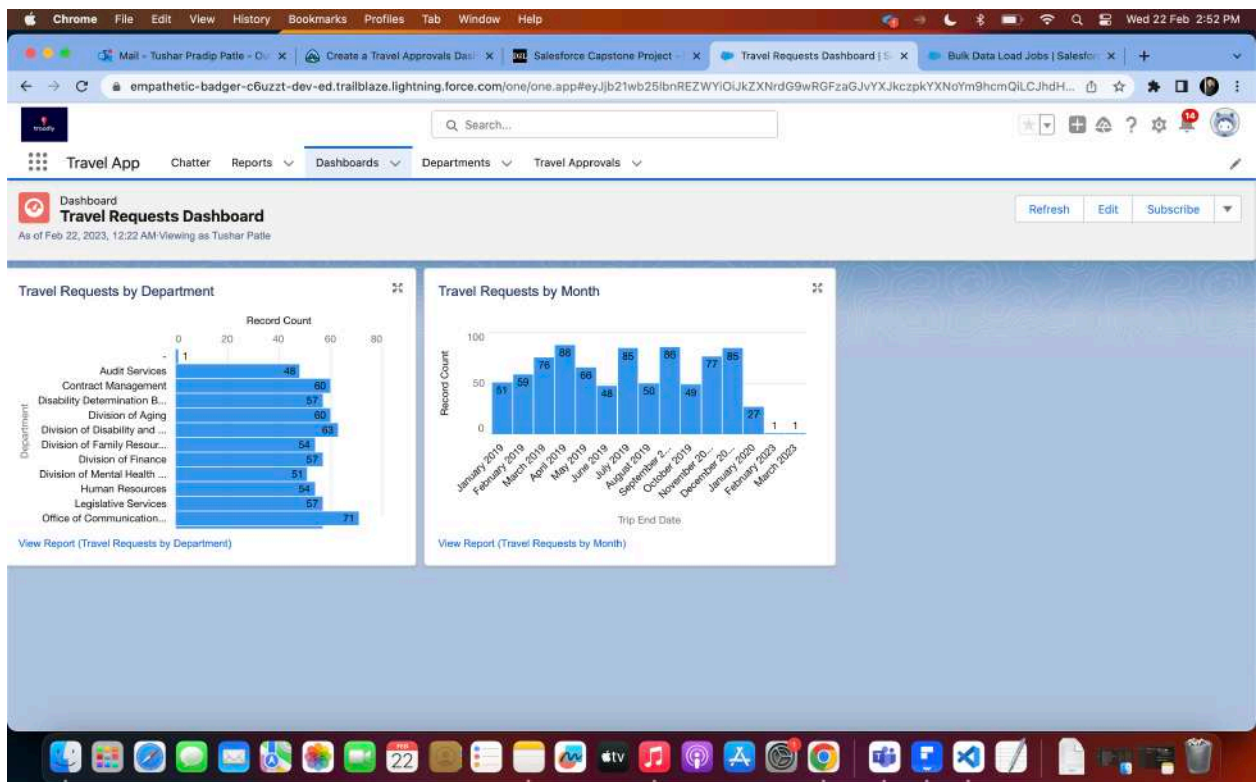
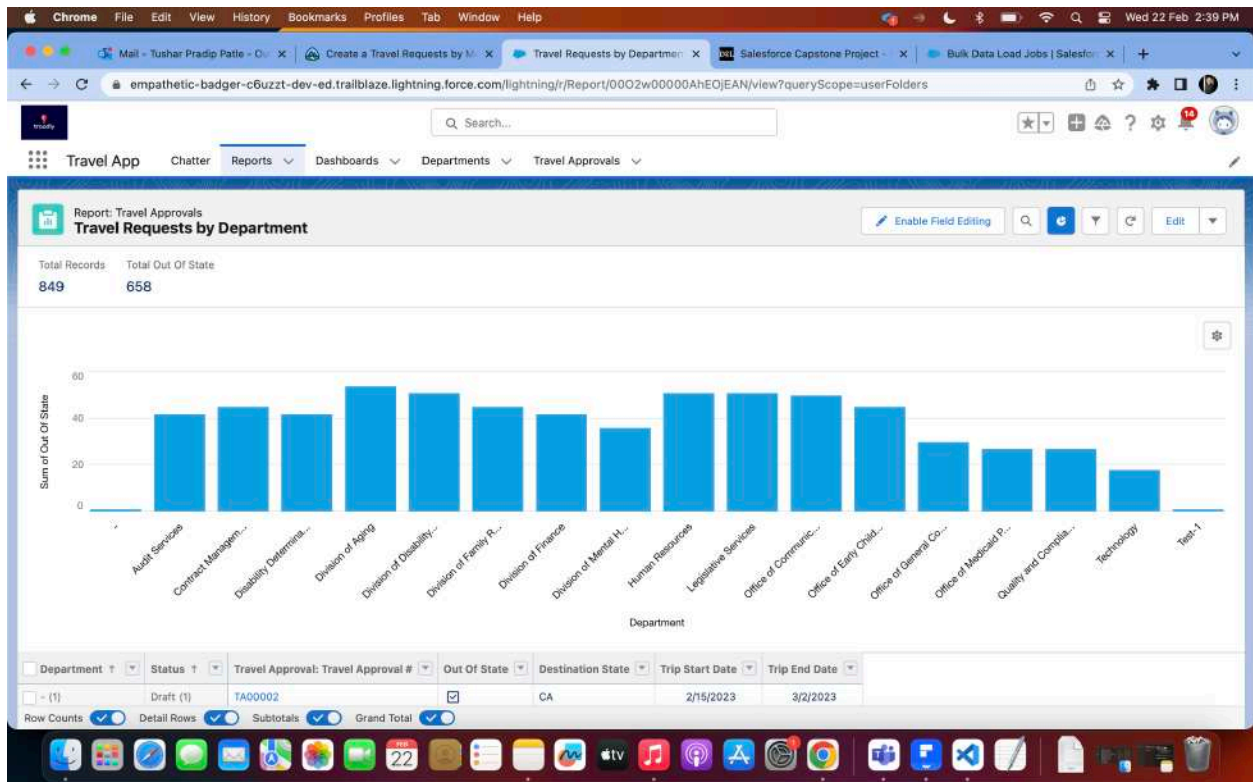
Travel App Chatter Reports Dashboards Departments Travel Approvals

Travel Approvals All New Import Change Owner Printable View

500+ Items • Sorted by Department • Filtered by All travel approvals • Updated 3 minutes ago

Search this list...

	Department ↑	Created By	Status	Trip Start Date	Trip End Date
1		Tushar Patle	Draft	2/15/2023	3/2/2023
2	Audit Services	Tushar Patle	Rejected	8/9/2019	8/15/2019
3	Audit Services	Tushar Patle	Approved	2/28/2019	3/6/2019
4	Audit Services	Tushar Patle	Approved	4/30/2019	5/10/2019
5	Audit Services	Tushar Patle	Approved	12/27/2019	1/10/2020
6	Audit Services	Tushar Patle	Approved	9/21/2019	10/6/2019
7	Audit Services	Tushar Patle	Approved	9/3/2019	9/3/2019
8	Audit Services	Tushar Patle	Approved	3/20/2019	4/10/2019
9	Audit Services	Tushar Patle	Approved	7/8/2019	7/9/2019
10	Audit Services	Tushar Patle	Approved	8/7/2019	8/7/2019
11	Audit Services	Tushar Patle	Approved	2/18/2019	2/20/2019
12	Audit Services	Tushar Patle	Approved	11/4/2019	11/7/2019
13	Audit Services	Tushar Patle	Rejected	5/31/2019	6/4/2019
14	Audit Services	Tushar Patle	Approved	7/8/2019	7/8/2019
15	Audit Services	Tushar Patle	Rejected	11/22/2019	11/28/2019
16	Audit Services	Tushar Patle	Approved	4/15/2019	4/15/2019



ChromeFileEditViewHistoryBookmarksProfilesTabWindowHelp

Mail - Tushar Pradip Patte - O...Create a Travel Requests by M...Salesforce Capstone Project - XTravel Requests by Month | Salesfor...Bulk Data Load Jobs | Salesfor...+

empathetic-badger-c6uzzt-dev-ed.trailblaze.lightning.force.com/lightning/r/Report/0002w000000AhEDtEAN/view

Search...

Travel AppChatterReportsDashboardsDepartmentsTravel Approvals

Report: Travel Approvals

Travel Requests by Month

Enable Field EditingAdd ChartEdit

Total Records
849

Trip End DateOut Of State

January 2019 (51)(18)

Travel Approval: Travel Approval #	Department	Status	Destination State	Trip Start Date
TA00218	Division of Aging	Approved	TX	1/22/2019
TA00230	Quality and Compliance Office	Approved	TX	1/14/2019
TA00239	Contract Management	Approved	TX	1/18/2019
TA00063	Legislative Services	Approved	TX	1/20/2019
TA00085	Office of General Counsel	Rejected	TX	1/27/2019
TA00096	Disability Determination Bureau	Approved	TX	1/12/2019
TA00997	Legislative Services	Approved	TX	1/20/2019
TA01020	Office of General Counsel	Rejected	TX	1/27/2019
TA01033	Disability Determination Bureau	Approved	TX	1/12/2019
TA01167	Division of Aging	Approved	TX	1/22/2019
TA01179	Quality and Compliance Office	Approved	TX	1/14/2019
TA01188	Contract Management	Approved	TX	1/18/2019
TA00672	Division of Aging	Approved	TX	1/22/2019
TA00684	Quality and Compliance Office	Approved	TX	1/14/2019

Row CountsDetail RowsSubtotalsGrand Total

22

AppleTV

Music

App Store

Google

Microsoft

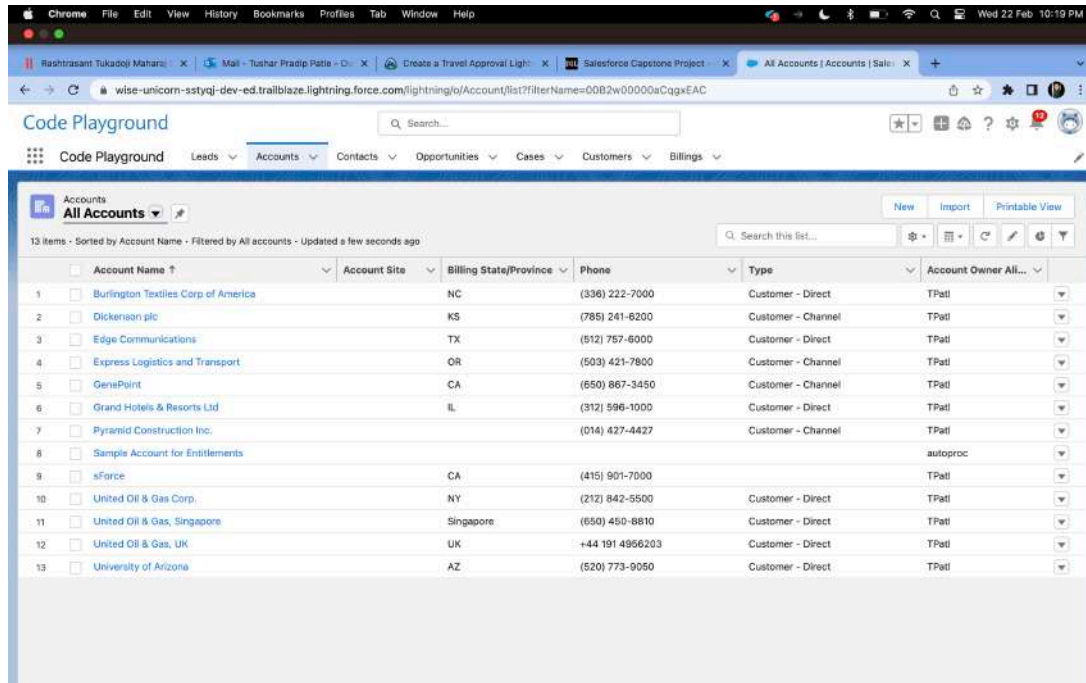
File Explorer

Terminal

Trash

Module 3:

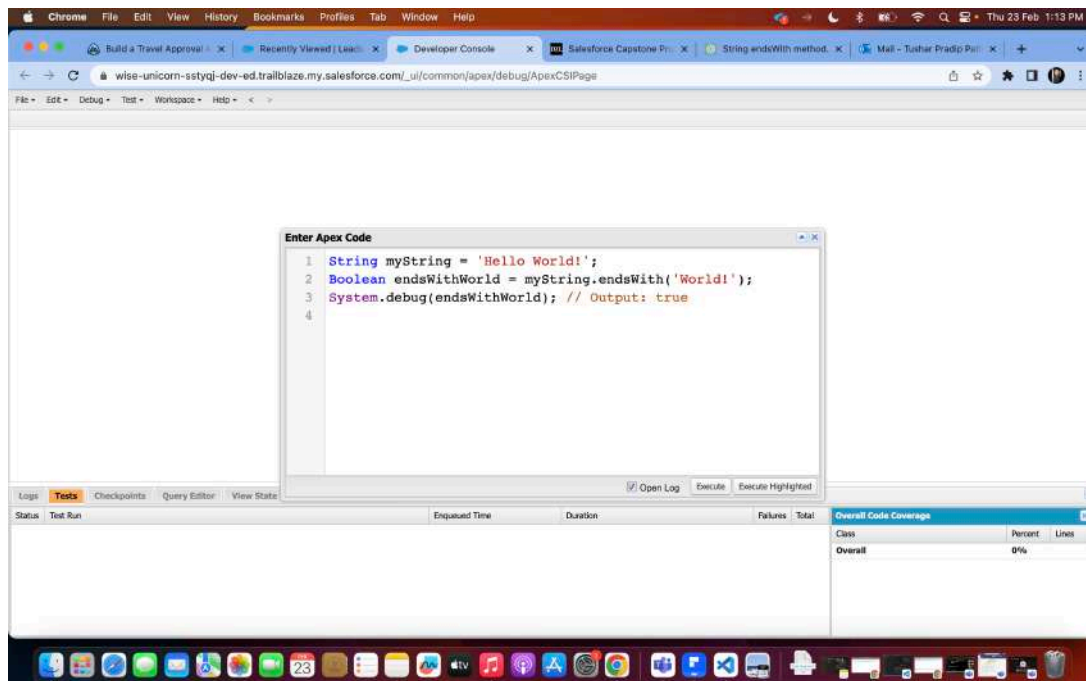
Exercise 1:



The screenshot shows the Salesforce 'Accounts' list view. The table contains 13 items, sorted by Account Name. The columns are Account Name, Account Site, Billing State/Province, Phone, Type, and Account Owner. The data is as follows:

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

Exercise 2:



The screenshot shows the Salesforce Apex CSPage. The code editor contains the following Apex code:

```
1 String myString = 'Hello World!';
2 Boolean endsWithWorld = myString.endsWith('World!');
3 System.debug(endsWithWorld); // Output: true
4
```

The test results show the following:

Status	Test Run	Enqueued Time	Duration	Failures	Total	Overall Code Coverage
Success	Test Run			0	1	0%

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Build a Travel Approval | X Recently Viewed | Leads | X Salesforce Capstone Pr | X String endsWith method. X Mail - Tushar Pradip Pv | X

wise-unicorn-sstygj-dev-ed.trilblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help

Log executeAnonymous 023/02/2023, 13:13:46

Execution Log

Timestamp	Event	Details
13:13:46:003	USER_DEBUG	[3]DEBUG:true

☐ This Frame ☐ Executable ☐ Debug Only ☒ Filter USER_DE

Logs Tests Checkpoints Query Editor View State Progress Problems

Status	Test Run	Enqueued Time	Duration	Failures	Total	Overall Code Coverage						
						<table><thead><tr><th>Class</th><th>Percent</th><th>Lines</th></tr></thead><tbody><tr><td>Overall</td><td>0%</td><td></td></tr></tbody></table>	Class	Percent	Lines	Overall	0%	
Class	Percent	Lines										
Overall	0%											

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Build a Travel Approval | X Recently Viewed | Leads | X Salesforce Capstone Pr | X Python Dates 30 Days | X Mail - Tushar Pradip Pv | X

wise-unicorn-sstygj-dev-ed.trilblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help

Log executeAnonymous 023/02/2023, 13:13:46 Log executeAnonymous 023/02/2023, 13:18:16

Execution Log

Timestamp	Event	Details
13:18:10:002	USER_DEBUG	[5]DEBUG:Today's date: 2023-02-23 00:00:00
13:18:10:003	USER_DEBUG	[6]DEBUG:Date 30 days from now: 2023-03-25 00:00:00

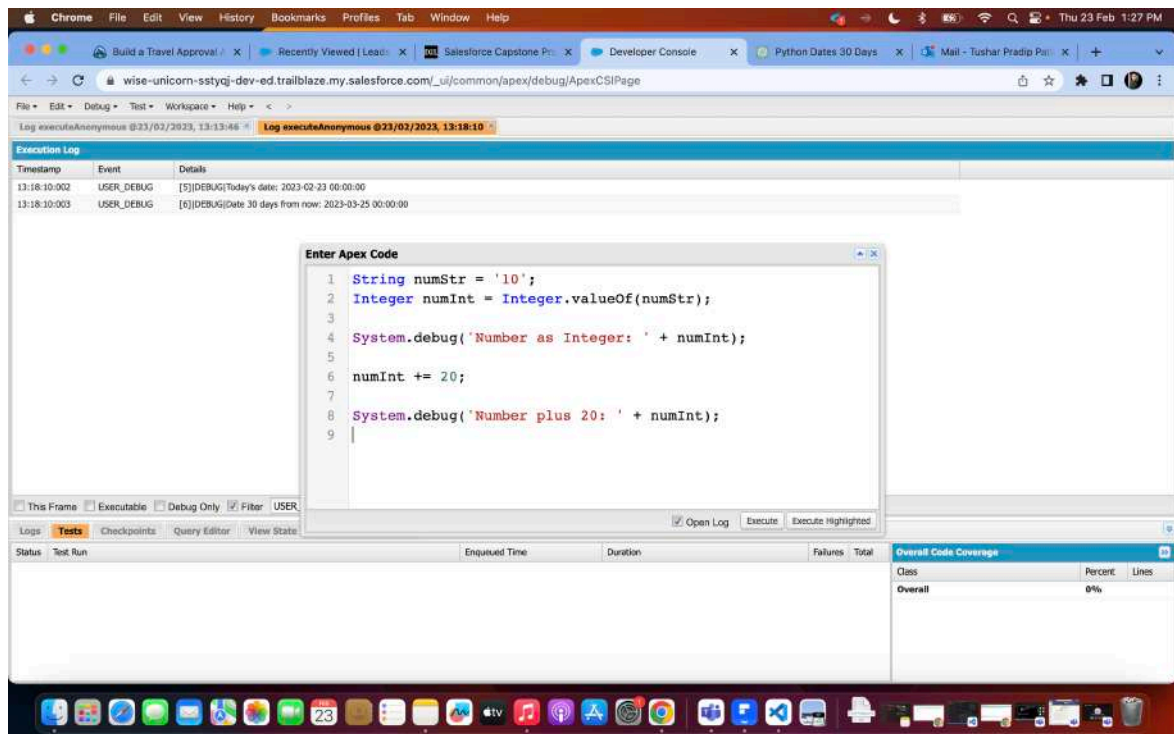
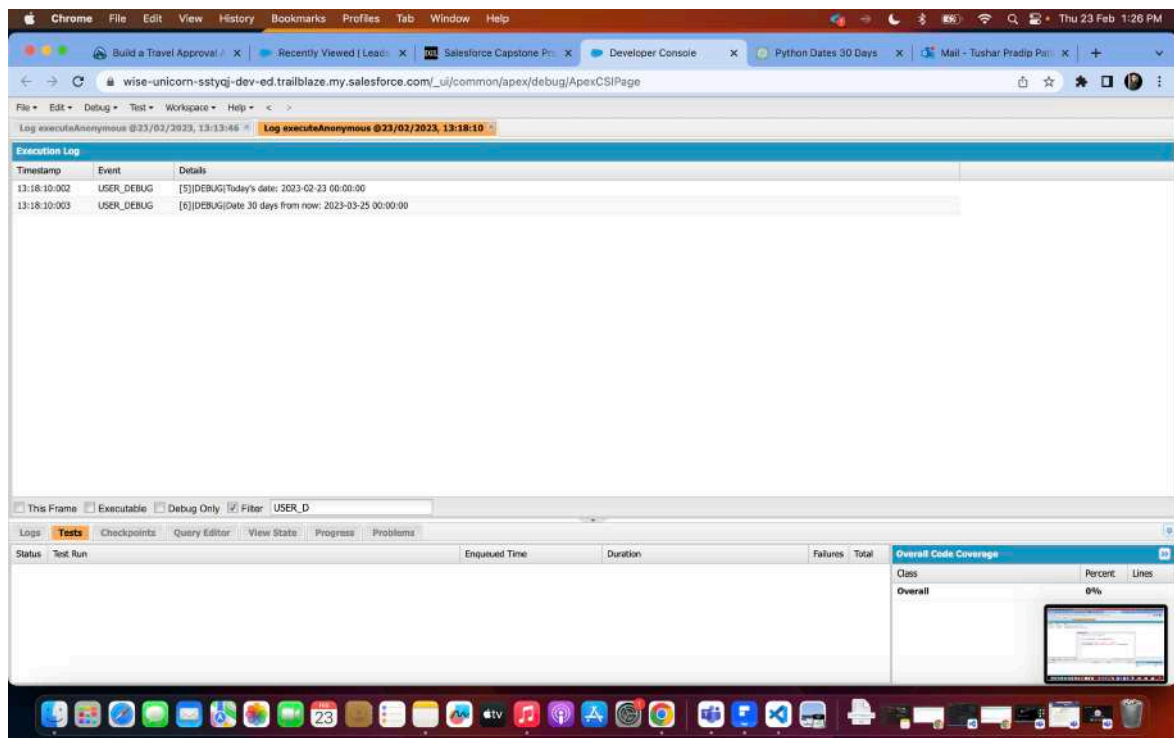
☐ This Frame ☐ Executable ☐ Debug Only ☒ Filter USER

Logs Tests Checkpoints Query Editor View State ☒ Open Log Execute Execute Highlighted

Enter Apex Code

```
1 Date today = Date.today();
2
3 Date futureDate = today.addDays(30);
4
5 System.debug('Today\'s date: ' + today);
6 System.debug('Date 30 days from now: ' + futureDate);
7 |
```

Status	Test Run	Enqueued Time	Duration	Failures	Total	Overall Code Coverage						
						<table><thead><tr><th>Class</th><th>Percent</th><th>Lines</th></tr></thead><tbody><tr><td>Overall</td><td>0%</td><td></td></tr></tbody></table>	Class	Percent	Lines	Overall	0%	
Class	Percent	Lines										
Overall	0%											



Chrome File Edit View History Bookmarks Profiles Tab Window Help

Build a Travel Approval | Recently Viewed | Leads | Salesforce Capstone Pro | Developer Console | Python Dates 30 Days | Mail - Tushar Pradip Patil | +

wise-unicorn-sstyqj-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help

Log executeAnonymous @23/02/2023, 13:13:46 Log executeAnonymous @23/02/2023, 13:18:10 Log executeAnonymous @23/02/2023, 13:28:06

Execution Log

Timestamp	Event	Details
13:28:06:004	USER_DEBUG	[4]DEBUG:Number as Integer: 10
13:28:06:004	USER_DEBUG	[8]DEBUG:Number plus 20: 30

☐ This Frame ☐ Executable ☐ Debug Only ☒ Filter USER_DE

Logs Tests Checkpoints Query Editor View State Progress Problems

Status	Test Run	Enqueued Time	Duration	Failures	Total
--------	----------	---------------	----------	----------	-------

Overall Code Coverage

Class	Percent	Lines
Overall	0%	

MacOS dock with various application icons.

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Build a Travel Approval | Recently Viewed | Leads | Salesforce Capstone Pro | Developer Console | Python Dates 30 Days | Mail - Tushar Pradip Patil | +

wise-unicorn-sstyqj-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help

Log executeAnonymous @23/02/2023, 13:13:46 Log executeAnonymous @23/02/2023, 13:18:10 Log executeAnonymous @23/02/2023, 13:28:06

Execution Log

Timestamp	Event	Details
13:28:06:004	USER_DEBUG	[4]DEBUG:Number as Integer: 10
13:28:06:004	USER_DEBUG	[8]DEBUG:Number plus 20: 30

Enter Apex Code

```
1 String str = 'Hello, World!';
2
3 System.debug('Length of string: ' + str.length());
4
```

☐ This Frame ☐ Executable ☐ Debug Only ☒ Filter USER

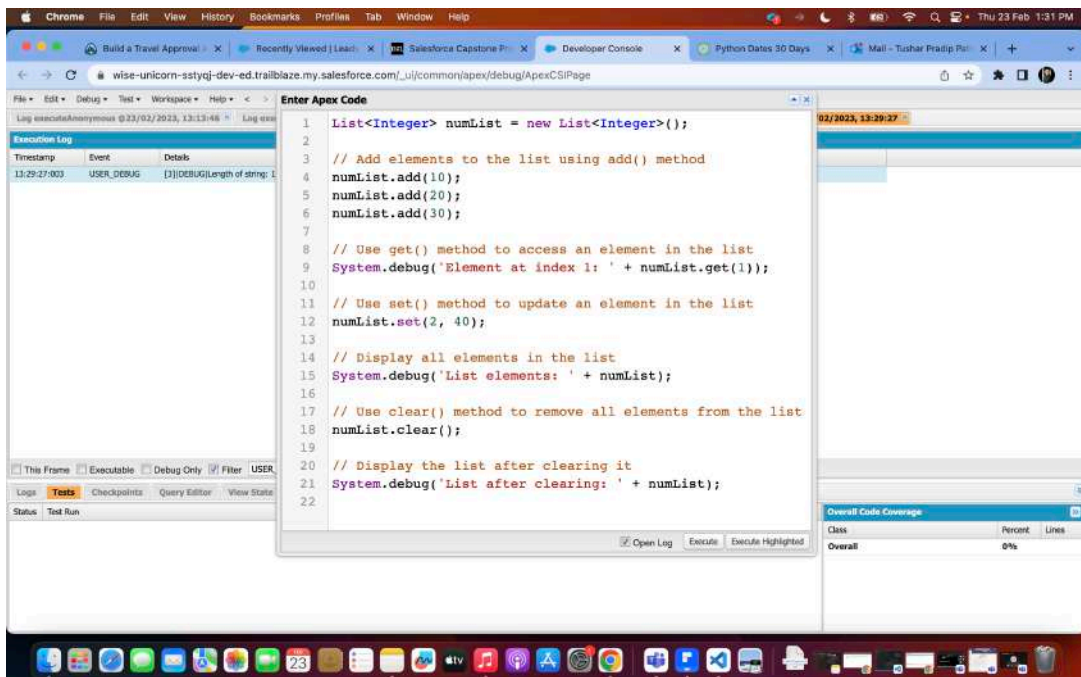
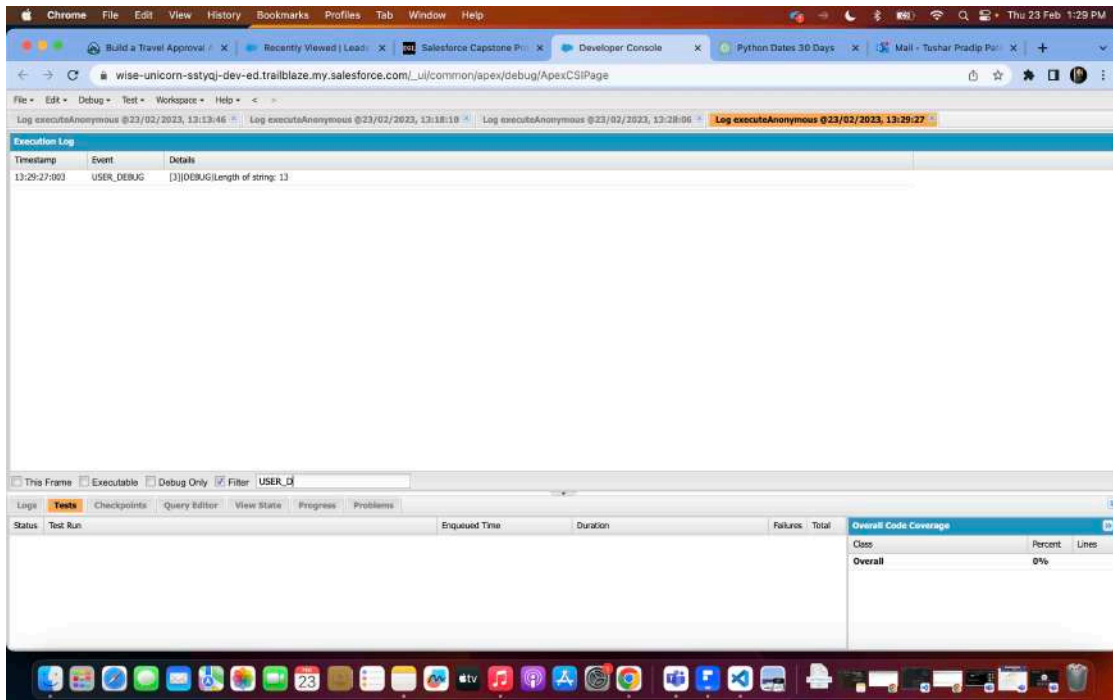
Logs Tests Checkpoints Query Editor View State ☒ Open Log

Status	Test Run	Enqueued Time	Duration	Failures	Total
--------	----------	---------------	----------	----------	-------

Overall Code Coverage

Class	Percent	Lines
Overall	0%	

MacOS dock with various application icons.



Chrome File Edit View History Bookmarks Profiles Tab Window Help

Build a Travel Approval | Recently Viewed | Lead | Salesforce Capstone Project | Developer Console | Python Dates 30 Days | Mail - Tushar Pradi... |

wise-unicorn-sstyqj-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help

Log executeAnonymous @23/02/2023, 13:13:46 | Log executeAnonymous @23/02/2023, 13:18:10 | Log executeAnonymous @23/02/2023, 13:28:06 | Log executeAnonymous @23/02/2023, 13:29:27 | Log executeAnonymous @23/02/2023, 13:31:13

Execution Log

Timestamp	Event	Details
13:31:13.603	USER_DEBUG	[9]DEBUG:Element at Index 1: 20
13:31:13.603	USER_DEBUG	[15]DEBUG:List elements: [18, 20, 40]
13:31:13.604	USER_DEBUG	[21]DEBUG:List after clearing: []

☐ This Frame ☐ Executable ☒ Debug Only ☐ Filter: USER_DE

Logs Tests Checkpoints Query Editor View State Progress Problems

Status	Test Run	Enqueued Time	Duration	Failures	Total
--------	----------	---------------	----------	----------	-------

Overall Code Coverage

Class	Percent	Lines
Overall	0%	

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Build a Travel Approval | Recently Viewed | Lead | Salesforce Capstone Project | Execute Anonymous | Developer Console | Mail - Tushar Pradi... | Join conversation |

wise-unicorn-sstyqj-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help

Log executeAnonymous @23/02/2023, 15:52:37

Execution Log

Timestamp	Event	Details
15:52:37.001	USER_INFO	[EXTERNAL]0052w00000EQYVW(tushar.padi@wise-unicorn-sstyqj.com)[GMT+05:30] India Standard Time (Asia/Kolkata):GMT+05:30
15:52:37.002	USER_DEBUG	[2]]DEBUG:Value of x is: 0
15:52:37.002	USER_DEBUG	[2]]DEBUG:Value of x is: 1
15:52:37.002	USER_DEBUG	[2]]DEBUG:Value of x is: 2
15:52:37.003	USER_DEBUG	[2]]DEBUG:Value of x is: 3
15:52:37.003	USER_DEBUG	[2]]DEBUG:Value of x is: 4
15:52:37.003	USER_DEBUG	[2]]DEBUG:Value of x is: 5
15:52:37.003	USER_DEBUG	[2]]DEBUG:Value of x is: 6
15:52:37.003	USER_DEBUG	[2]]DEBUG:Value of x is: 7
15:52:37.003	USER_DEBUG	[2]]DEBUG:Value of x is: 8
15:52:37.003	USER_DEBUG	[2]]DEBUG:Value of x is: 9

Enter Apex Code

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

☐ This Frame ☐ Executable ☒ Debug Only ☐ Filter: USER

Logs Tests Checkpoints Query Editor View State

☒ Open Log

Status	Test Run	Enqueued Time	Duration	Failures	Total
--------	----------	---------------	----------	----------	-------

Overall Code Coverage

Class	Percent	Lines
Overall	0%	

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Build a Travel App... Recently Viewed... Salesforce Capstone... Execute Anonymo... Developer Console X Mail - Tushar Prad... Join conversation... +

wise-unicorn-sstygj-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

Log executeAnonymous @23/02/2023, 15:52:37

Execution Log

Timestamp	Event	Details
15:52:37.001	USER_INFO	[EXTERNAL]([0052w00000EQYVW])tushar.pd1@wise-unicorn-sstygj.com((GMT+05:30) India Standard Time (Asia/Kolkata))GMT+05:30
15:52:37.002	USER_DEBUG	(2)DEBUG:Value of x is: 0
15:52:37.002	USER_DEBUG	(2)DEBUG:Value of x is: 1
15:52:37.002	USER_DEBUG	(2)DEBUG:Value of x is: 2
15:52:37.003	USER_DEBUG	(2)DEBUG:Value of x is: 3
15:52:37.003	USER_DEBUG	(2)DEBUG:Value of x is: 4
15:52:37.003	USER_DEBUG	(2)DEBUG:Value of x is: 5
15:52:37.003	USER_DEBUG	(2)DEBUG:Value of x is: 6
15:52:37.003	USER_DEBUG	(2)DEBUG:Value of x is: 7
15:52:37.003	USER_DEBUG	(2)DEBUG:Value of x is: 8
15:52:37.003	USER_DEBUG	(2)DEBUG:Value of x is: 9

☐ This Frame ☐ Executable ☐ Debug Only ☒ Filter USER

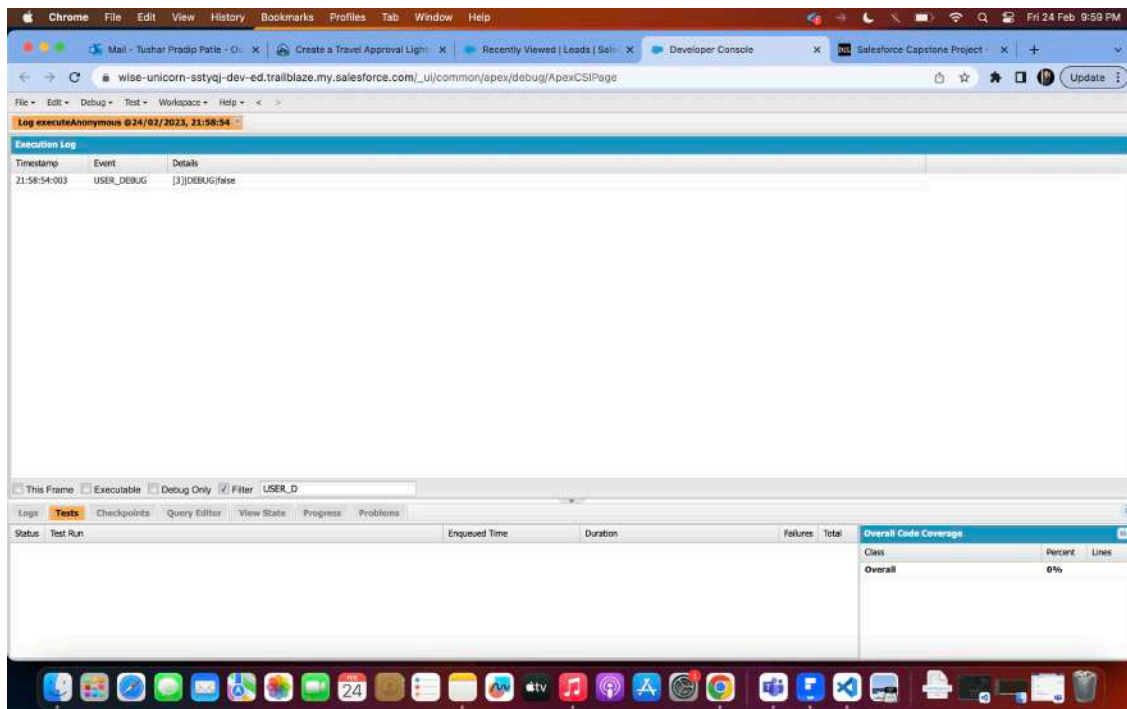
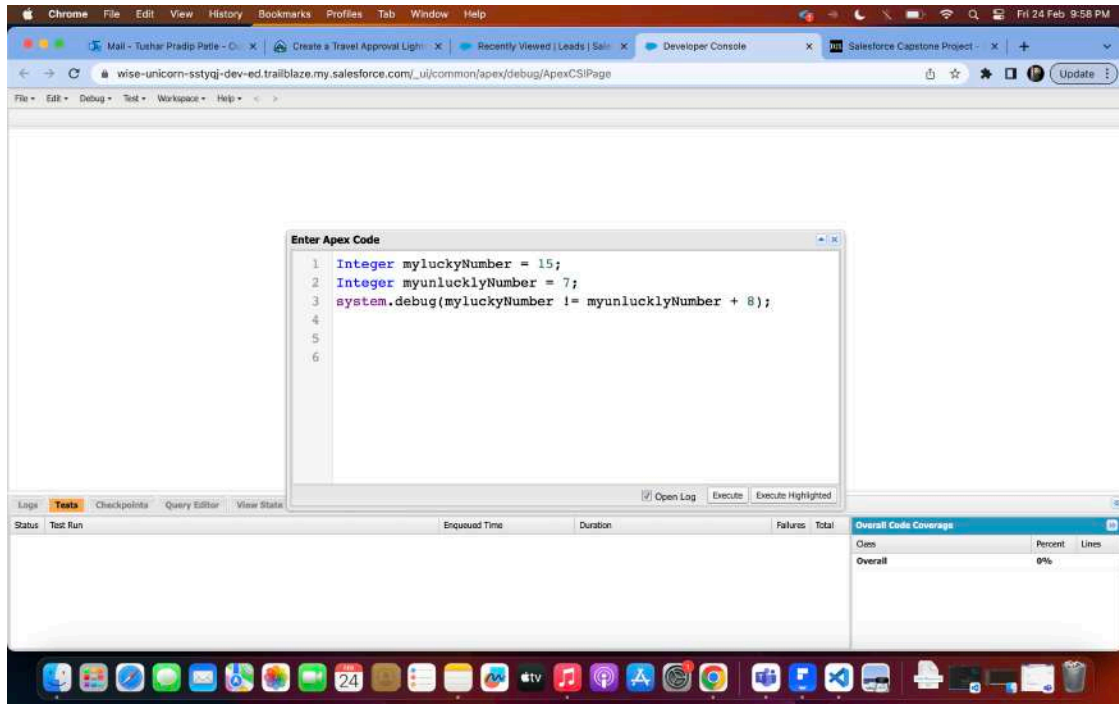
Logs Tests Checkpoints Query Editor View State Progress Problems

Status	Test Run	Enqueued Time	Duration	Failures	Total

Overall Code Coverage

Class	Percent	Lines
Overall	0%	

Exercise 3:



Exercise 4:

The screenshot shows the Salesforce Developer Console interface. The browser address bar displays the URL: `wise-unicorn-sstyqj-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. The "Execution Log" table shows a single entry:

Timestamp	Event	Details
21:58:54:003	USER_DEBUG	[3]DEBUG: false

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

```
1 Boolean isFalse = false;
2 Boolean isTrue = True;
3 SYSTEM.debug(isTrue || isFalse);
4
5
```

Below the code editor, the "Tests" tab is selected. The "Overall Code Coverage" summary shows 0% coverage.

The screenshot shows the Salesforce Developer Console interface after the code execution. The browser address bar displays the URL: `wise-unicorn-sstyqj-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. The "Execution Log" table shows a single entry:

Timestamp	Event	Details
22:05:37:004	USER_DEBUG	[3]DEBUG: true

The "Enter Apex Code" dialog box is no longer visible. The "Tests" tab is still selected. The "Overall Code Coverage" summary shows 0% coverage.

Exercise 5:

The screenshot shows the Salesforce Developer Console interface. The top navigation bar includes File, Edit, Debug, Test, Workspace, and Help. The main area displays the 'Enter Apex Code' editor with the following code:

```
1 Date today = Date.today();
2 Date tomorrow = Date.today().addDays(1);
3 system.debug('today != tomorrow');
4
```

Below the code editor, the 'Execution Log' is visible, showing a single log entry:

Timestamp	Event	Details
22:05:57:004	USER_DEBUG	[3]DEBUG:true

The bottom right corner shows the 'Overall Code Coverage' summary:

Class	Percent	Lines
Overall	0%	

The screenshot shows the Salesforce Developer Console interface after the code execution. The 'Execution Log' now displays two log entries:

Timestamp	Event	Details
22:05:54:003	USER_DEBUG	[3]DEBUG:true
22:05:57:004	USER_DEBUG	[3]DEBUG:true

The bottom right corner shows the 'Overall Code Coverage' summary:

Class	Percent	Lines
Overall	0%	

Exercise 6:

The screenshot shows the Salesforce Developer Console interface. The 'Enter Apex Code' window contains the following code:

```
1 Integer score = 67;
2 if (score == 100) {
3     System.debug('Grade: A+');
4 } else if (score >= 90) {
5     System.debug('Grade: A');
6 }
7 else if (score >= 80) {
8     System.debug('Grade: B');
9 } else {
10    System.debug('Grade: Failed');
11 }
12
13
```

The 'Execution Log' on the left shows a single entry:

Timestamp	Event	Details
22:19:44:003	USER_DEBUG	[6]DEBUG Grade: A

The 'Overall Code Coverage' table on the right shows:

Class	Percent	Lines
Overall	0%	

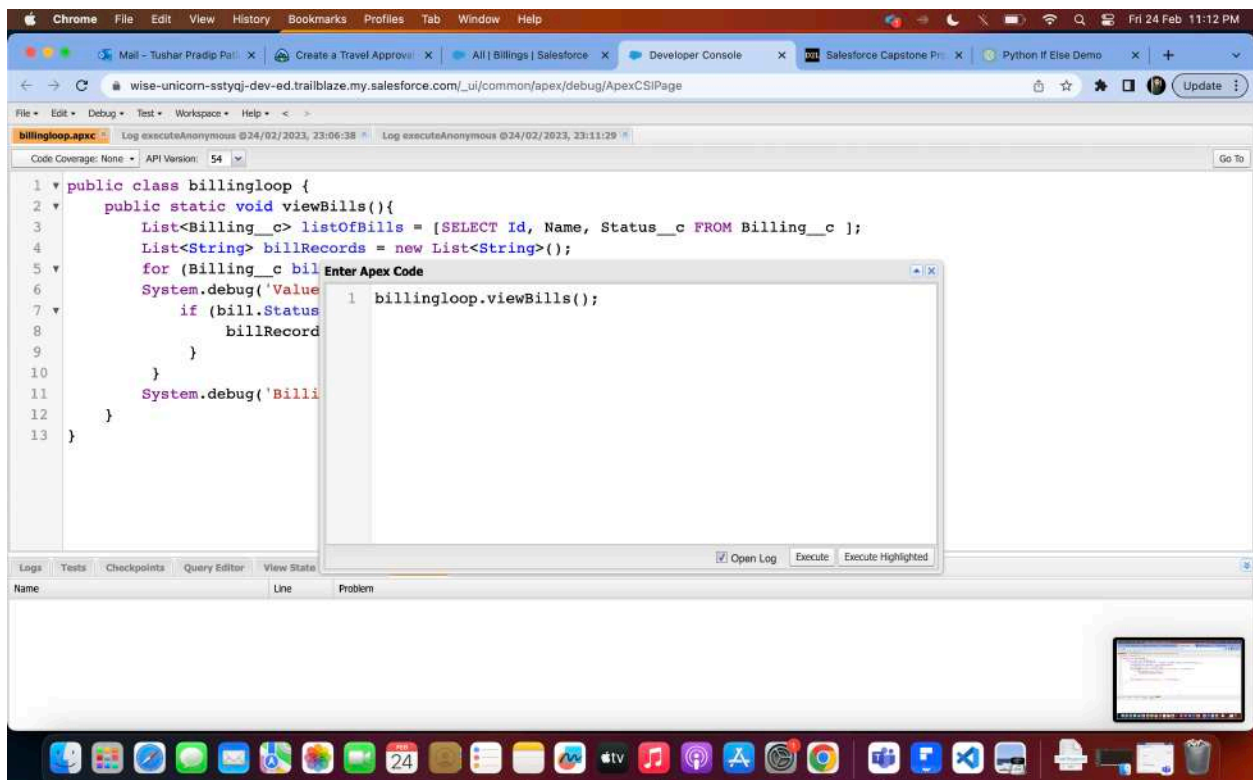
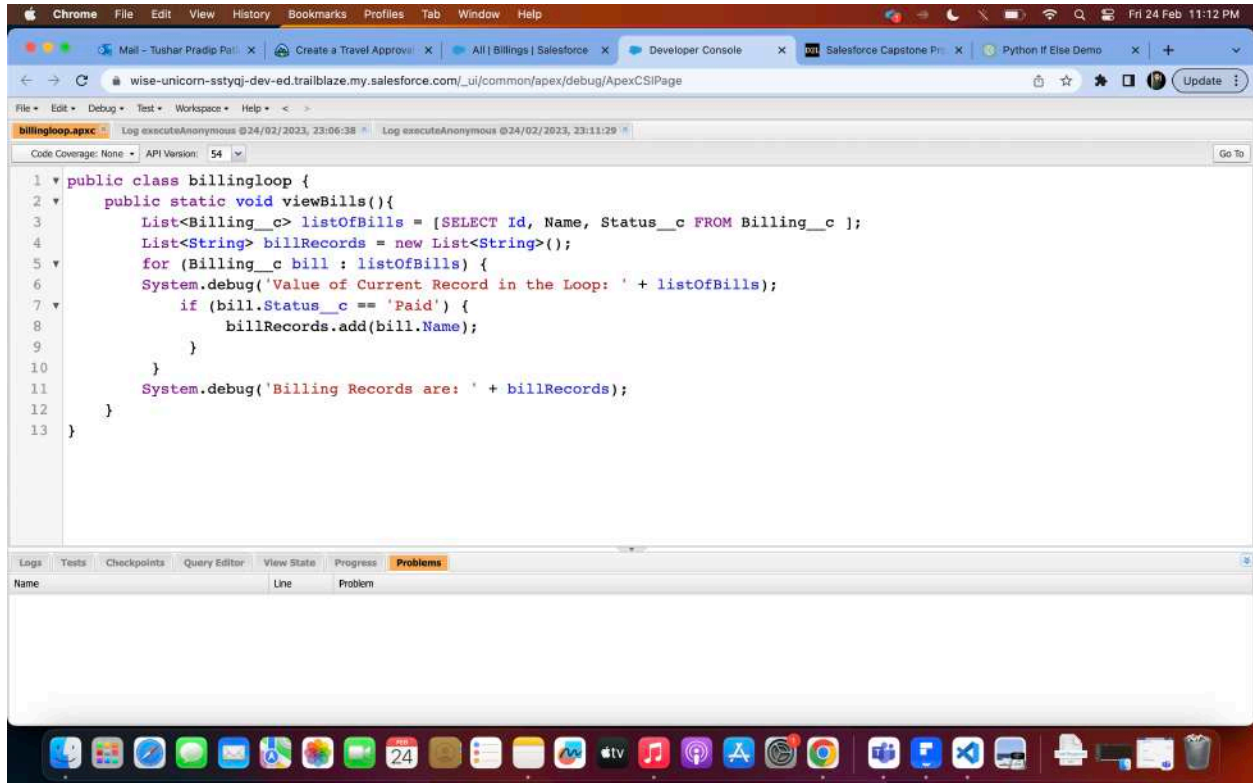
The screenshot shows the Salesforce Developer Console interface after the code has been executed. The 'Execution Log' on the left now shows a single entry:

Timestamp	Event	Details
22:20:43:002	USER_DEBUG	[10]DEBUG Grade: Failed

The 'Overall Code Coverage' table on the right remains the same:

Class	Percent	Lines
Overall	0%	

Exercise 7:



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

Mail - Tushar Pradi... | Create a Travel Approv... | All | Billings | Salesforce | Developer Console | Salesforce Capstone Pro... | Python If Else Demo

wise-unicorn-sstygj-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File | Edit | Debug | Test | Workspace | Help

Log executeAnonymous @24/02/2023, 23:06:38 | Log executeAnonymous @24/02/2023, 23:11:29

Execution Log

Timestamp	Event	Details
23:11:29:022	USER_DEBUG	[6][DEBUG]Value of Current Record in the Loop: (Billing__c:(Id=a012w000017z5OqAAI, Name=B - 0002, Status__c=Paid), Billing__c:(Id=a012w000017z5OIAAI, Name=B - 0001, Status__c=Paid), Billing__c:(Id=a012w000017z5OvAAI, Name=B - 0003, Status__c=Paid))
23:11:29:022	USER_DEBUG	[6][DEBUG]Value of Current Record in the Loop: (Billing__c:(Id=a012w000017z5OqAAI, Name=B - 0002, Status__c=Paid), Billing__c:(Id=a012w000017z5OIAAI, Name=B - 0001, Status__c=Paid), Billing__c:(Id=a012w000017z5OvAAI, Name=B - 0003, Status__c=Paid))
23:11:29:023	USER_DEBUG	[6][DEBUG]Value of Current Record in the Loop: (Billing__c:(Id=a012w000017z5OqAAI, Name=B - 0002, Status__c=Paid), Billing__c:(Id=a012w000017z5OIAAI, Name=B - 0001, Status__c=Paid), Billing__c:(Id=a012w000017z5OvAAI, Name=B - 0003, Status__c=Paid))
23:11:29:023	USER_DEBUG	[6][DEBUG]Value of Current Record in the Loop: (Billing__c:(Id=a012w000017z5OqAAI, Name=B - 0002, Status__c=Paid), Billing__c:(Id=a012w000017z5OIAAI, Name=B - 0001, Status__c=Paid), Billing__c:(Id=a012w000017z5OvAAI, Name=B - 0003, Status__c=Paid))
23:11:29:023	USER_DEBUG	[11][DEBUG]Billing Records are: (B - 0002, B - 0001, B - 0003)

☐ This Frame ☐ Executable ☒ Debug Only ☐ Filter [Click here to filter the log](#)

Logs | Tests | Checkpoints | Query Editor | View Stats | Progress | **Problems**

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

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

Mail - Tushar Pradi... | Create a Travel Approv... | All | Billings | Salesforce | Billing | Salesforce | Developer Console | Salesforce Capstone Pro... | Python If Else Demo

wise-unicorn-sstygj-dev-ed.trailblaze.lightning.force.com/lightning/q/Billing__c/list?filterName=00B2w00000Y8SH0EAN

Code Playground

Code Playground | Leads | Accounts | Contacts | Opportunities | Cases | Customers | **Billings**

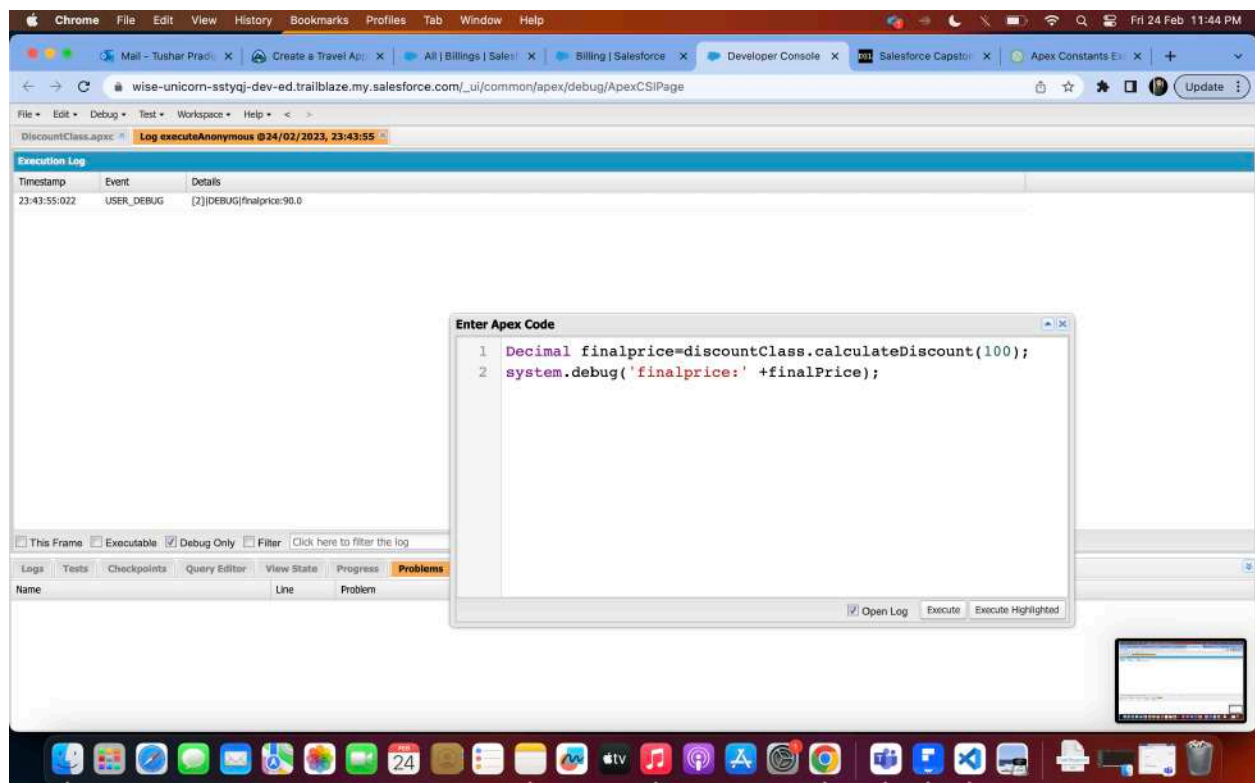
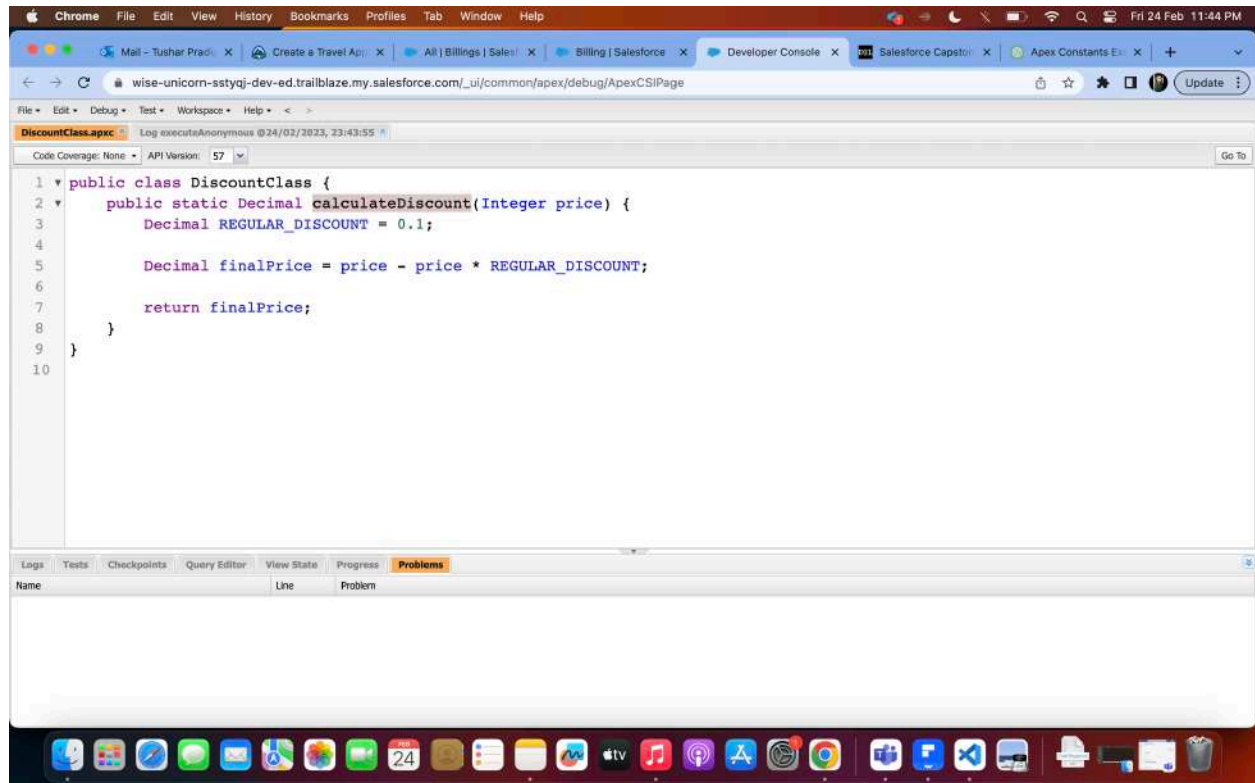
Billings | All | New | Import | Change Owner | Printable View

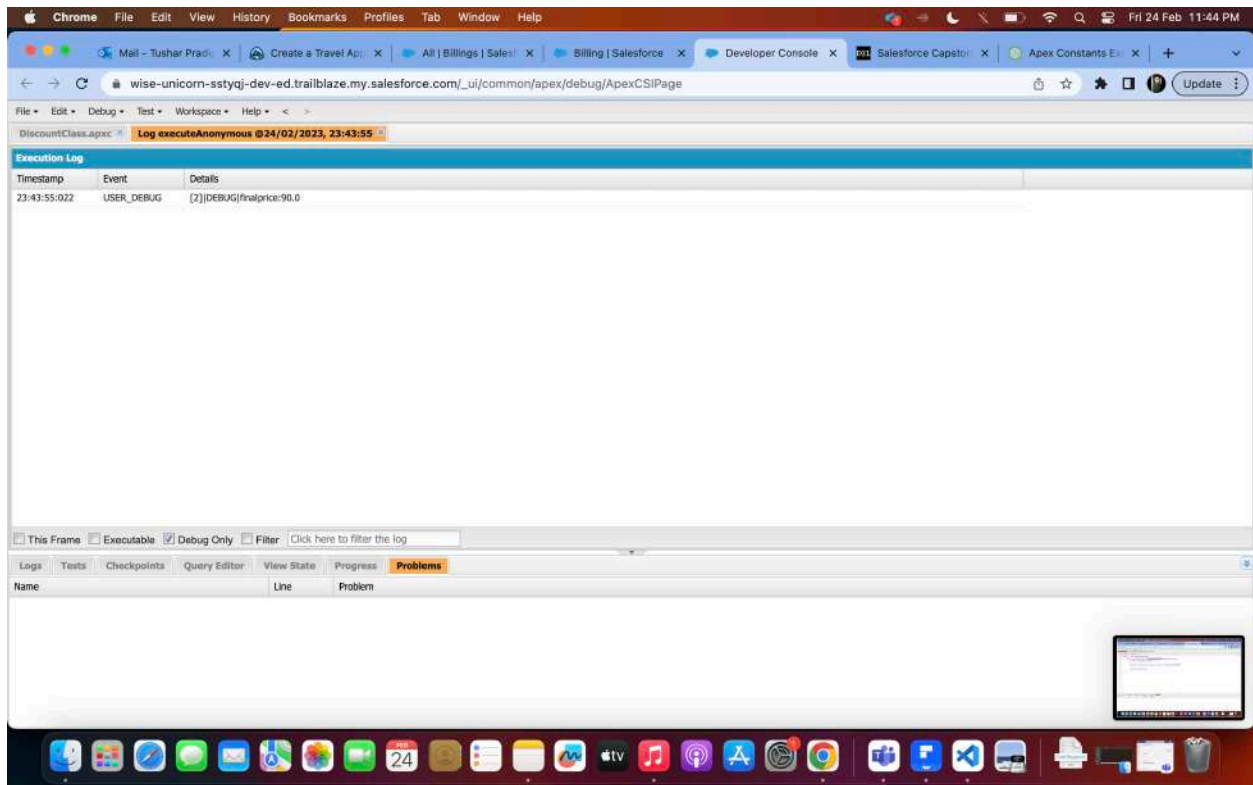
4 Items • Sorted by Billing Number • Filtered by All billings • Updated 10 minutes ago

Search this list...

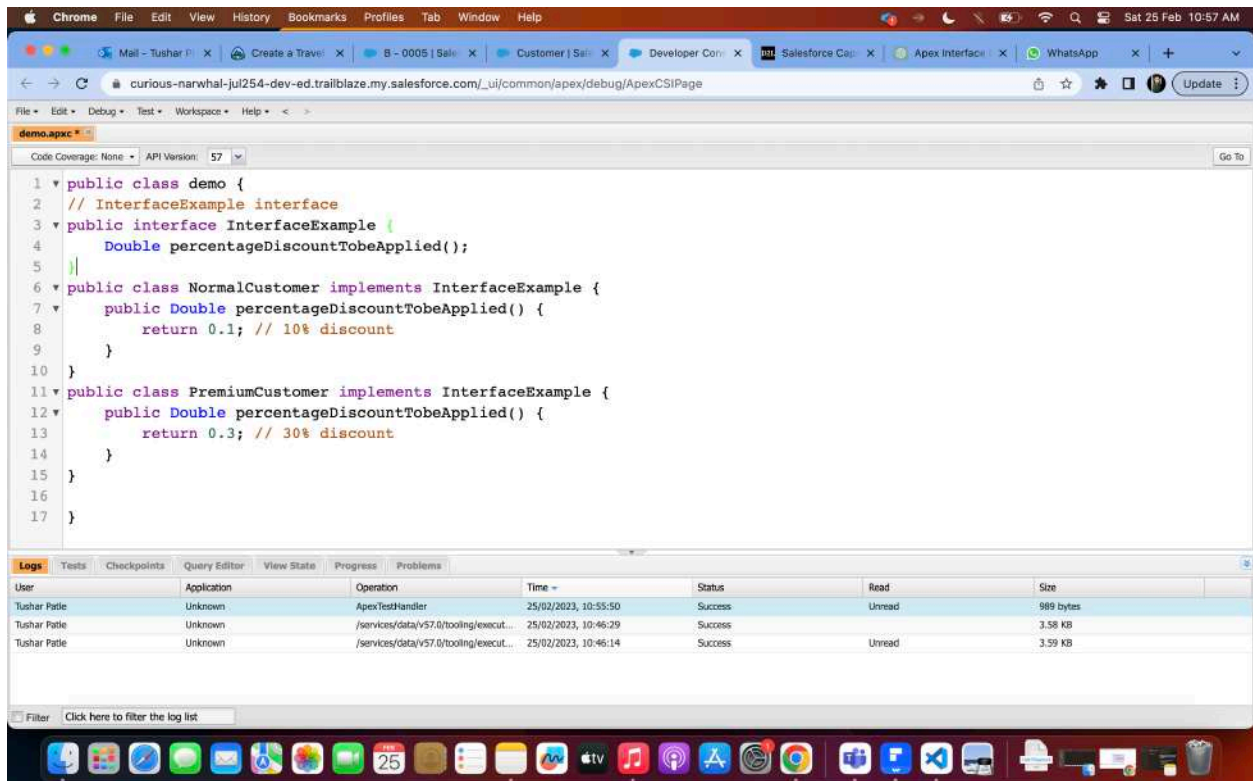
	Billing Number ?	
1	<input type="checkbox"/> B - 0001	
2	<input type="checkbox"/> B - 0002	
3	<input type="checkbox"/> B - 0003	
4	<input type="checkbox"/> B - 0004	

Exercise 8:





Exercise 9:



Exercise 10:

The screenshot shows the Salesforce Developer Console interface. The top navigation bar includes 'File', 'Edit', 'Debug', 'Test', 'Workspace', and 'Help'. The browser tabs at the top include 'Mail - Tushar P...', 'Create a Travel...', 'Wipro | Salesfo...', 'Customer | Sal...', 'Developer Con...', 'Salesforce Ca...', 'Apex Interfac...', and 'WhatsApp'. The address bar shows the URL: `curious-narwhal-jul254-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`.

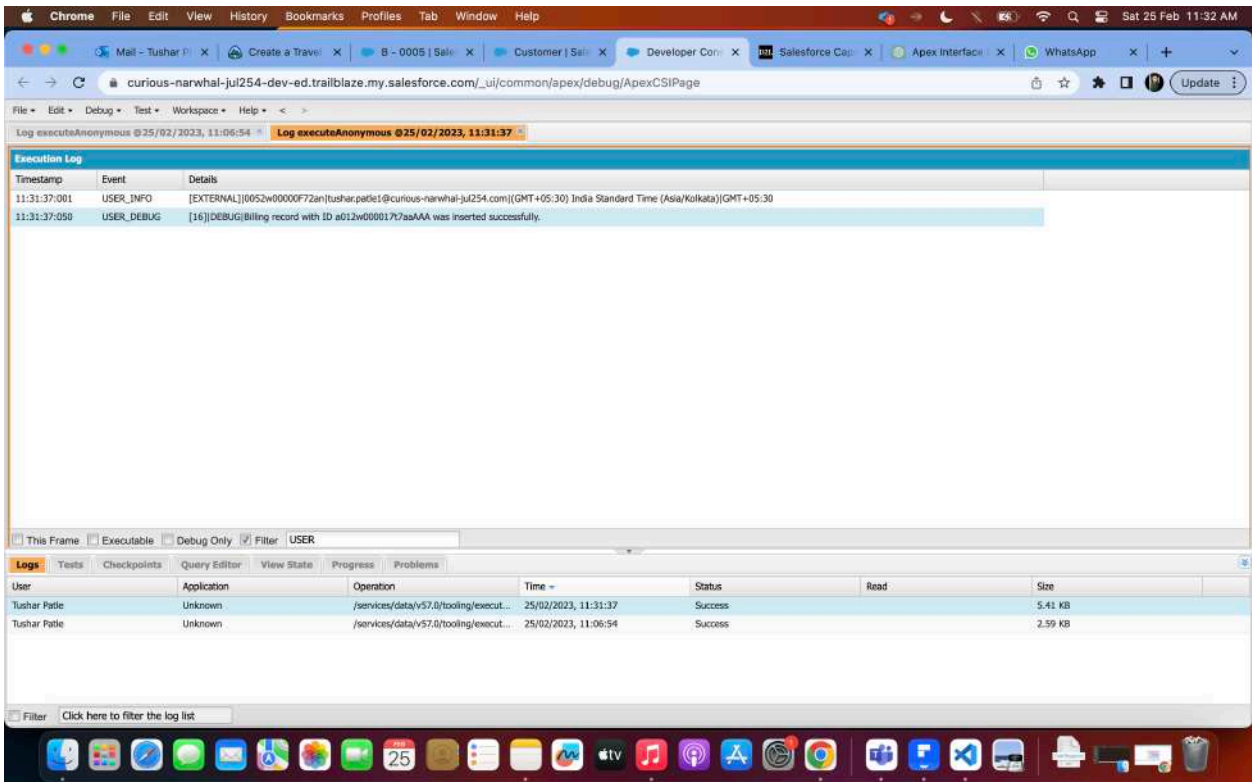
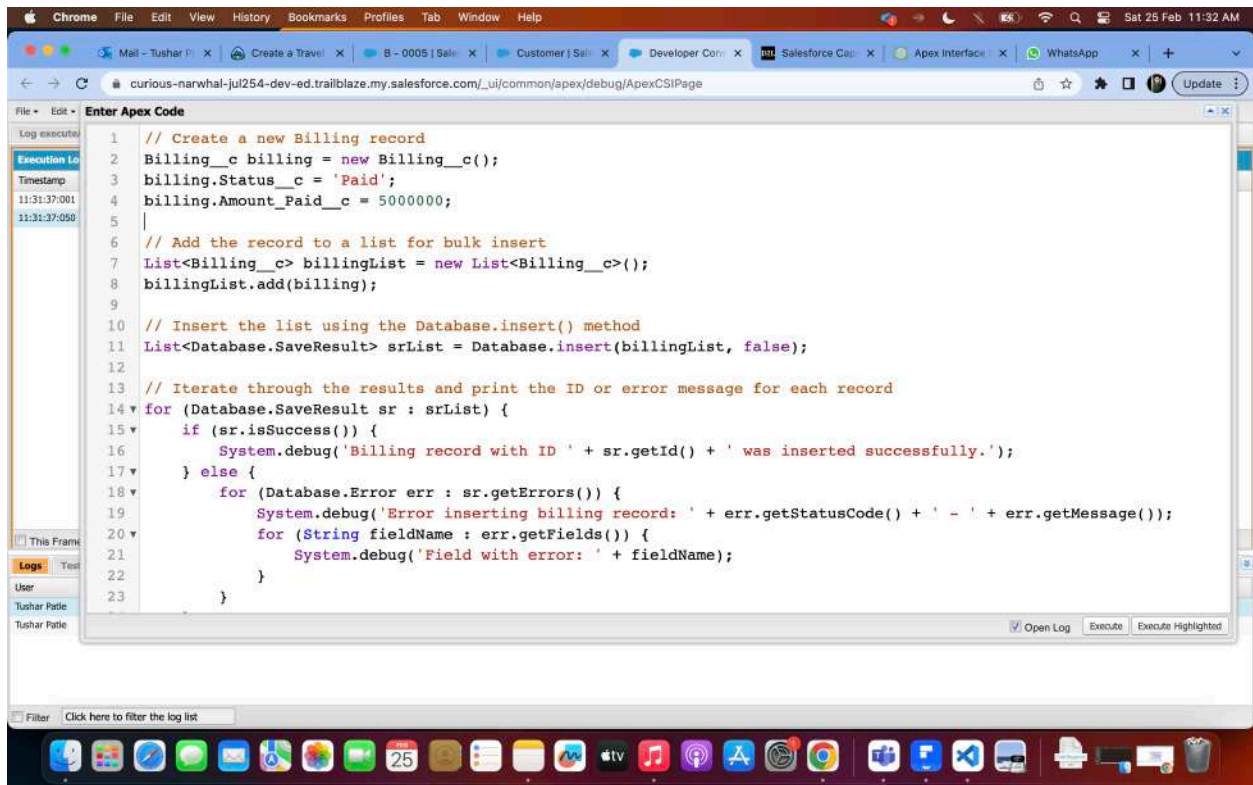
The main area displays the 'Log executeAnonymous @25/02/2023, 11:06:54' execution log. The log table has columns for 'Timestamp', 'Event', and 'Details'. The events listed include 'HEAP_ALLOCATE', 'VARIABLE_ASSIGNMENT', 'STATEMENT_EXECUTE', 'DML_BEGIN', 'DML_END', 'CUMULATIVE_LIMIT_USAGE', and 'LIMIT_USAGE'. A modal window titled 'Enter Apex Code' is open, showing the following code:

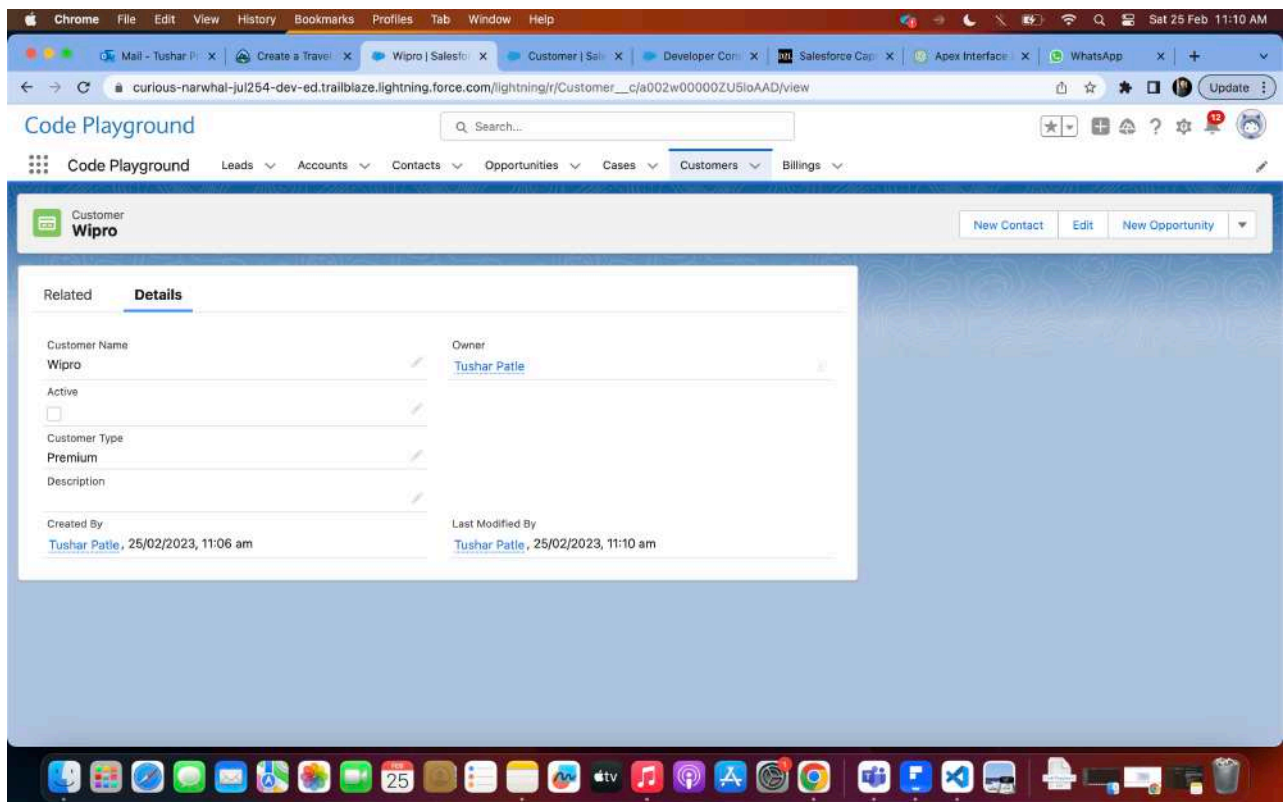
```
1 Customer__c cust = new Customer__c(Name='Wipro', Customer_Type__c='Premium');
2 insert cust;
```

Below the log, there is a 'Logs' section with a table showing the execution details:

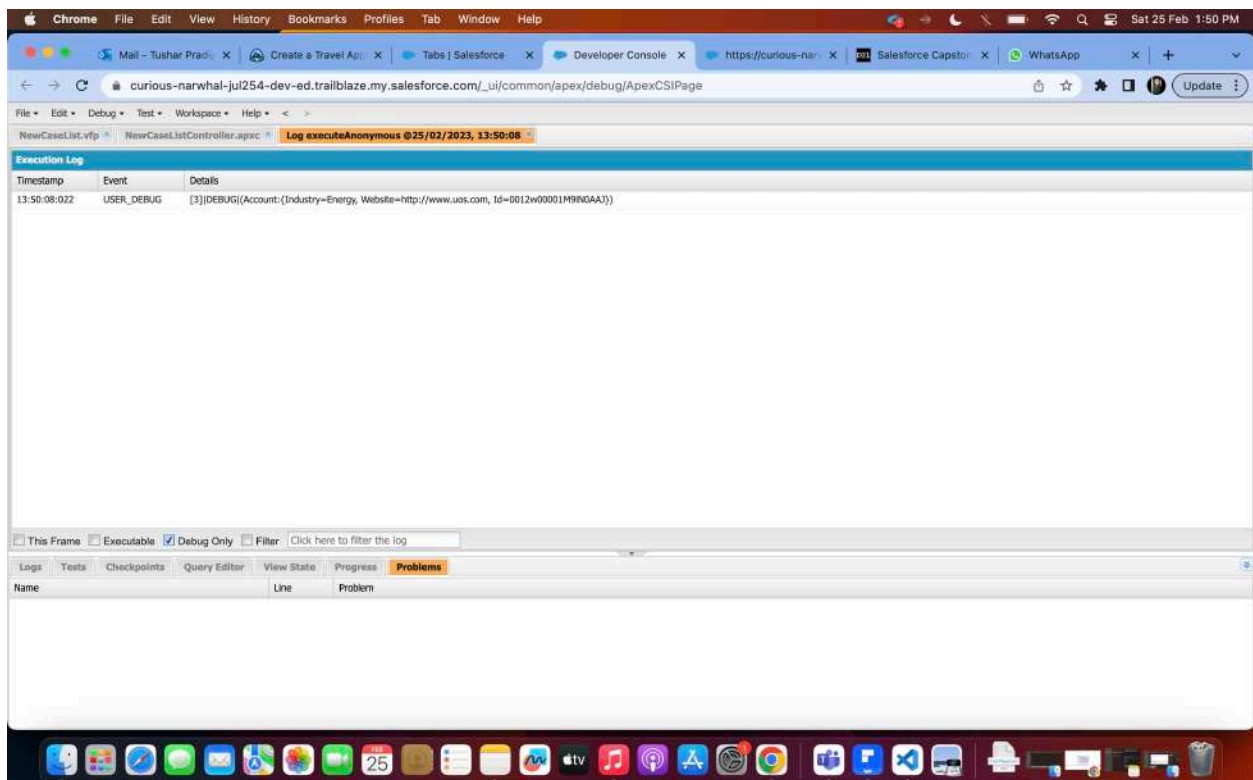
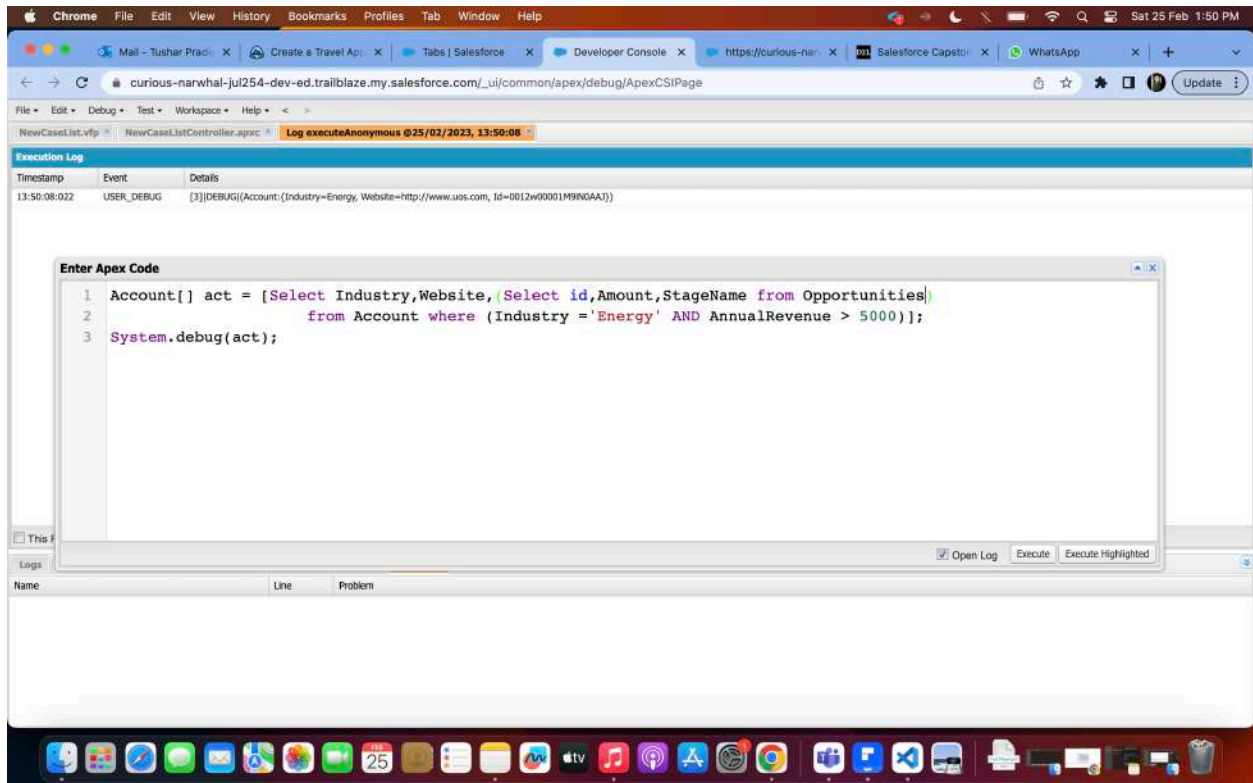
User	Application	Operation	Time	Status	Read	Size
Tushar Patel	Unknown	/services/data/v57.0/tooling/execute...	25/02/2023, 11:06:54	Success		2.59 KB

This screenshot shows the same Salesforce Developer Console interface, but the execution log is now complete. The 'Log executeAnonymous @25/02/2023, 11:06:54' log shows the final state of the execution, including the 'LIMIT_USAGE' events. The 'Enter Apex Code' modal is no longer visible. The 'Logs' section at the bottom still shows the execution details for the anonymous Apex call.





Exercise 11:



Exercise 12:

```
1 trigger CustomerTrigger on Customer__c (after insert, after update) {
2     List<Billing__c> BillingList = new List<Billing__c>();
3
4     for (Customer__c objCustomer: Trigger.new)
5     {
6
7         if (objCustomer.Active__c == False)
8         {
9             Billing__c objbill = new Billing__c();
10            objbill.Status__c = 'Paid';
11            objbill.Amount_Paid__c=1000000;
12            BillingList.add(objbill);
13        }
14    }
15    insert BillingList;
16 }
17 }
```

Status	Test Run	Enqueued Time	Duration	Failures	Total
✓	7072w00008LsUd0	Sat Feb 25 2023 12:17:57 GMT...		0	2
✓	7072w00008LsU77	Sat Feb 25 2023 11:50:36 GMT...		0	2
✓	7072w00008LsVDe	Sat Feb 25 2023 12:19:46 GMT...		0	2
✓	7072w00008LsVd8	Sat Feb 25 2023 12:21:41 GMT...		0	2
✓	7072w00008LsVb6	Sat Feb 25 2023 12:31:15 GMT...		0	2

Overall Code Coverage		
Class	Percent	Lines
Overall	60%	
billingloop	0%	0/5
CustomerTrigger	100%	9/9

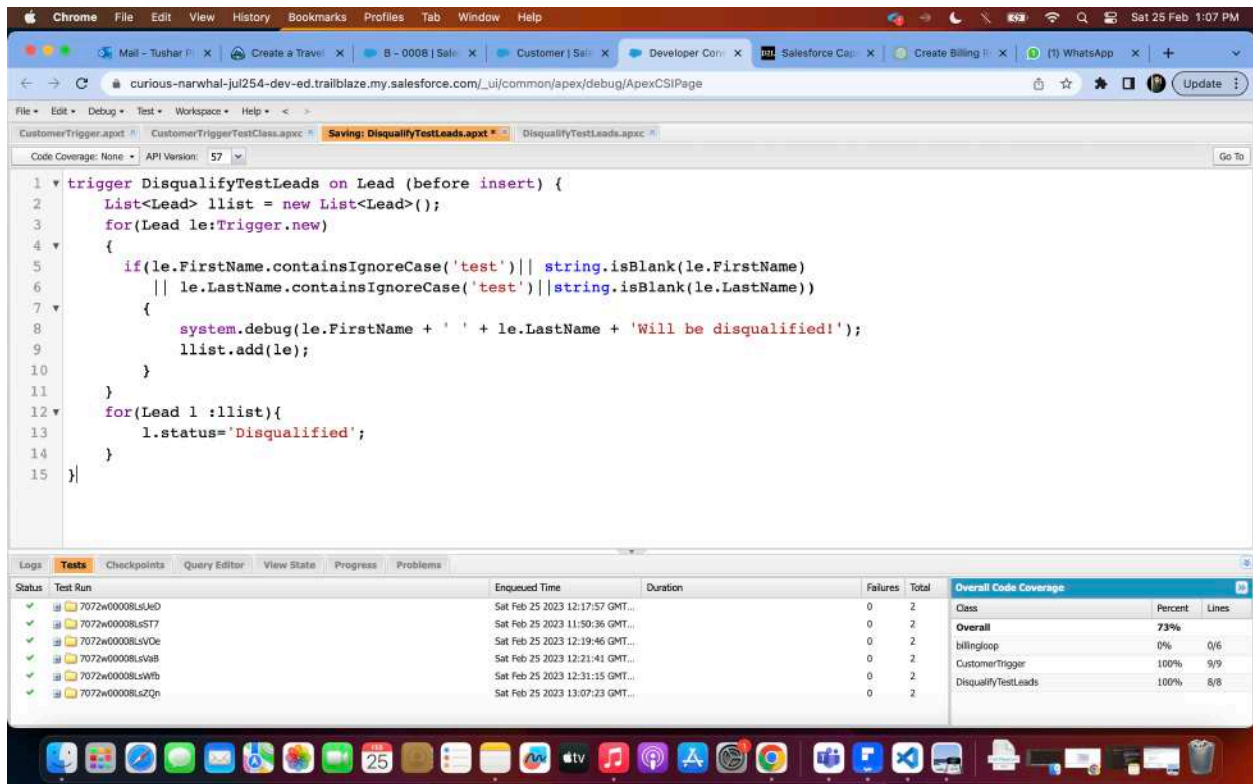
Exercise 13:

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

Status	Test Run	Enqueued Time	Duration	Failures	Total
✓	7072w00008LsUd0	Sat Feb 25 2023 12:17:57 GMT...		0	2
✓	7072w00008LsU77	Sat Feb 25 2023 11:50:36 GMT...		0	2
✓	7072w00008LsVDe	Sat Feb 25 2023 12:19:46 GMT...		0	2
✓	7072w00008LsVd8	Sat Feb 25 2023 12:21:41 GMT...		0	2
✓	7072w00008LsVb6	Sat Feb 25 2023 12:31:15 GMT...		0	2

Overall Code Coverage		
Class	Percent	Lines
Overall	60%	
billingloop	0%	0/6
CustomerTrigger	100%	9/9

Exercise 14:

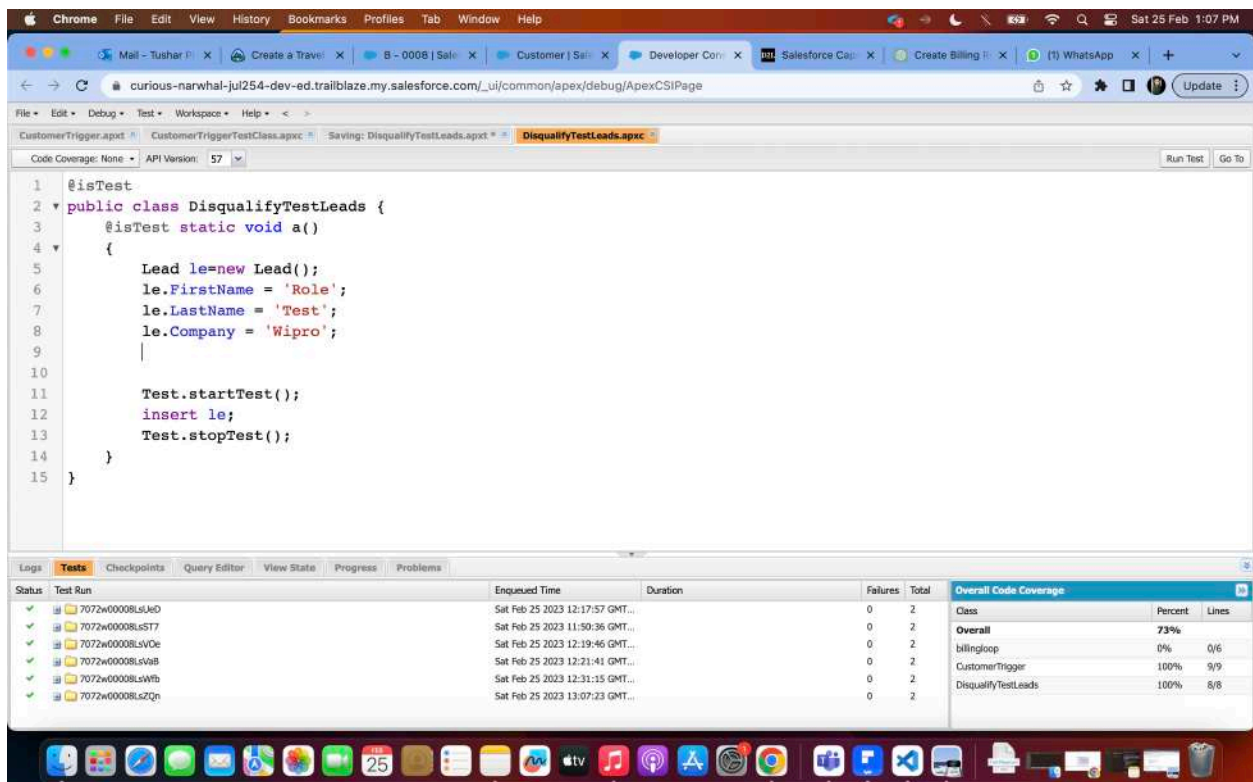


```
1 trigger DisqualifyTestLeads on Lead (before insert) {
2     List<Lead> llist = new List<Lead>();
3     for(Lead le:Trigger.new)
4     {
5         if(le.FirstName.containsIgnoreCase('test') || string.isBlank(le.FirstName)
6         || le.LastName.containsIgnoreCase('test') || string.isBlank(le.LastName))
7         {
8             system.debug(le.FirstName + ' ' + le.LastName + 'Will be disqualified!');
9             llist.add(le);
10        }
11    }
12    for(Lead l :llist){
13        l.status='Disqualified';
14    }
15 }
```

Status	Test Run	Enqueued Time	Duration	Failures	Total
✓	7072x00008LsUd	Sat Feb 25 2023 12:17:57 GMT...		0	2
✓	7072x00008LsT7	Sat Feb 25 2023 11:50:36 GMT...		0	2
✓	7072x00008LsV0e	Sat Feb 25 2023 12:19:46 GMT...		0	2
✓	7072x00008LsV0b	Sat Feb 25 2023 12:21:41 GMT...		0	2
✓	7072x00008LsVfb	Sat Feb 25 2023 12:31:15 GMT...		0	2
✓	7072x00008LsZQn	Sat Feb 25 2023 13:07:23 GMT...		0	2

Class	Percent	Lines
Overall	73%	
billingloop	0%	0/6
CustomerTrigger	100%	9/9
DisqualifyTestLeads	100%	8/8

Exercise 15:



```
1 @isTest
2 public class DisqualifyTestLeads {
3     @isTest static void a()
4     {
5         Lead le=new Lead();
6         le.FirstName = 'Role';
7         le.LastName = 'Test';
8         le.Company = 'Wipro';
9     }
10
11     Test.startTest();
12     insert le;
13     Test.stopTest();
14 }
15 }
```

Status	Test Run	Enqueued Time	Duration	Failures	Total
✓	7072x00008LsUd	Sat Feb 25 2023 12:17:57 GMT...		0	2
✓	7072x00008LsT7	Sat Feb 25 2023 11:50:36 GMT...		0	2
✓	7072x00008LsV0e	Sat Feb 25 2023 12:19:46 GMT...		0	2
✓	7072x00008LsV0b	Sat Feb 25 2023 12:21:41 GMT...		0	2
✓	7072x00008LsVfb	Sat Feb 25 2023 12:31:15 GMT...		0	2
✓	7072x00008LsZQn	Sat Feb 25 2023 13:07:23 GMT...		0	2

Class	Percent	Lines
Overall	73%	
billingloop	0%	0/6
CustomerTrigger	100%	9/9
DisqualifyTestLeads	100%	8/8

Exercise 16:

The screenshot shows the Salesforce Developer Console with the Apex code editor open. The code defines an Apex page named `OpportunityDetails` that displays fields from an Opportunity record. The code is as follows:

```
1 <apex:page standardController="Opportunity">
2   <apex:pageBlock title="Opportunity Details">
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, the **Logs** tab is selected, displaying a table of log entries:

User	Application	Operation	Time	Status	Read	Size
Tushar Patle	Browser	/apex/OpportunityDetails	25/02/2023, 13:19:17	Success	Unread	1.18 KB
Tushar Patle	Unknown	ApexTestHandler	25/02/2023, 13:15:43	Success	Unread	11.31 KB
Tushar Patle	Unknown	ApexTestHandler	25/02/2023, 13:15:36	Success	Unread	8.6 KB
Tushar Patle	Unknown	ApexTestHandler	25/02/2023, 13:15:36	Success	Unread	989 bytes
Tushar Patle	Unknown	ApexTestHandler	25/02/2023, 13:07:26	Success	Unread	989 bytes
Tushar Patle	Unknown	ApexTestHandler	25/02/2023, 13:07:23	Success	Unread	11.35 KB

The screenshot shows the rendered page for `OpportunityDetails`. The page title is "Opportunity Details". The page contains four input fields for data entry:

Opportunity Name	Amount
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

This screenshot shows a macOS desktop environment. In the background, a window displays the Salesforce Developer Console. In the foreground, a window displays the "Opportunity Details" page. The macOS dock at the bottom contains various application icons, including Mail, Safari, Messages, Photos, App Store, and others.

Exercise 17:

The screenshot shows the Salesforce Developer Console interface. The top pane displays the Apex code for `AccountList.vfp`. The code is as follows:

```
1 <apex:page standardController="Account" recordSetVar="Accounts">
2   <apex:pageBlock >
3     <apex:repeat var="a" value="{!Accounts}" rendered="true" id="account_list">
4       <li>
5         <apex:outputLink value="{!a.ID}">
6           <apex:outputText value="{!a.Name}" />
7         </apex:outputLink>
8       </li>
9     </apex:repeat>
10  </apex:pageBlock>
11 </apex:page>
```

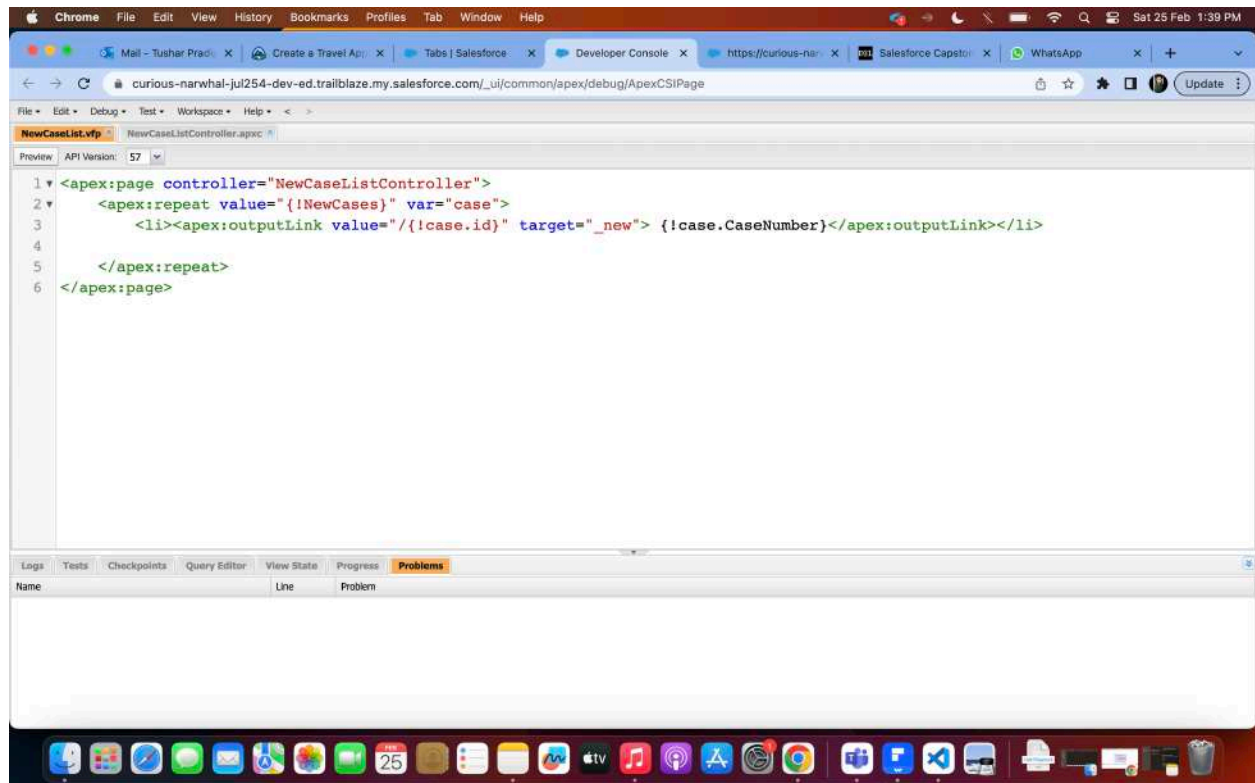
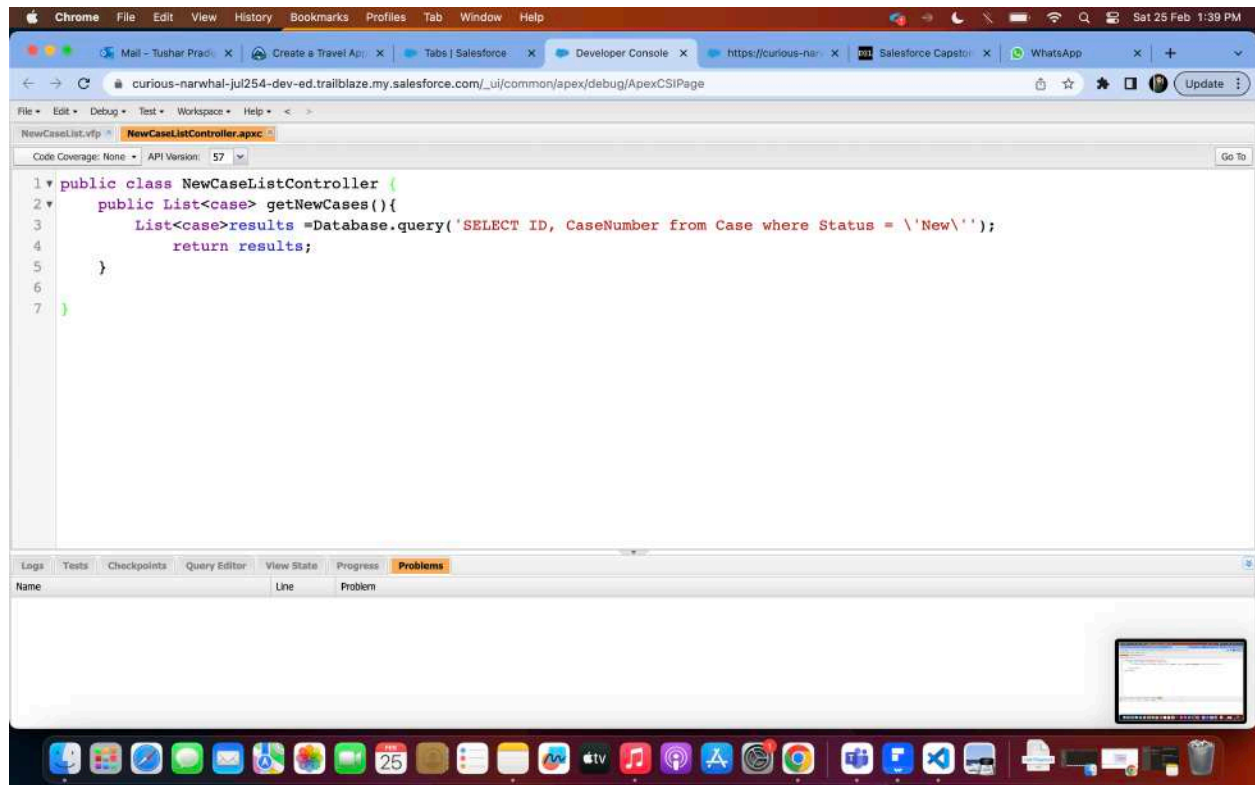
The bottom pane shows the **Problems** tab with one error:

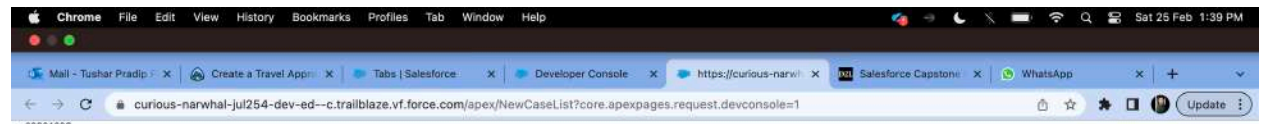
Name	Line	Problem
NewCaseList	0	Unknown property 'NewCaseListController.NewCases'

The screenshot shows the Salesforce Developer Console interface. The top pane displays the Apex code for `AccountList.vfp`. The bottom pane shows the output of the code, which is a list of account names:

- 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
- sForce
- United Oil & Gas Corp.
- United Oil & Gas, Singapore
- United Oil & Gas, UK
- University of Arizona

Exercise 18:





- 00001002
- 00001016
- 00001024

Future Enhancements

1. Integration with social media platforms to allow customers to share their travel experiences and promote the business.
2. Integration with popular travel review websites to showcase positive customer feedback and improve online reputation.
3. Introduction of an artificial intelligence-powered chatbot to provide 24/7 customer support.
4. Implementation of a loyalty program to reward repeat customers and increase customer retention.
5. Integration with third-party booking engines to expand the range of options available to customers.

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](#)

