



Capstone Project Report
On
“Travel and Code Playground App”

Submitted by:

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Batch Wipro Salesforce B13 (WIP-SF-13)

LMS Id: MGSA_520

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.

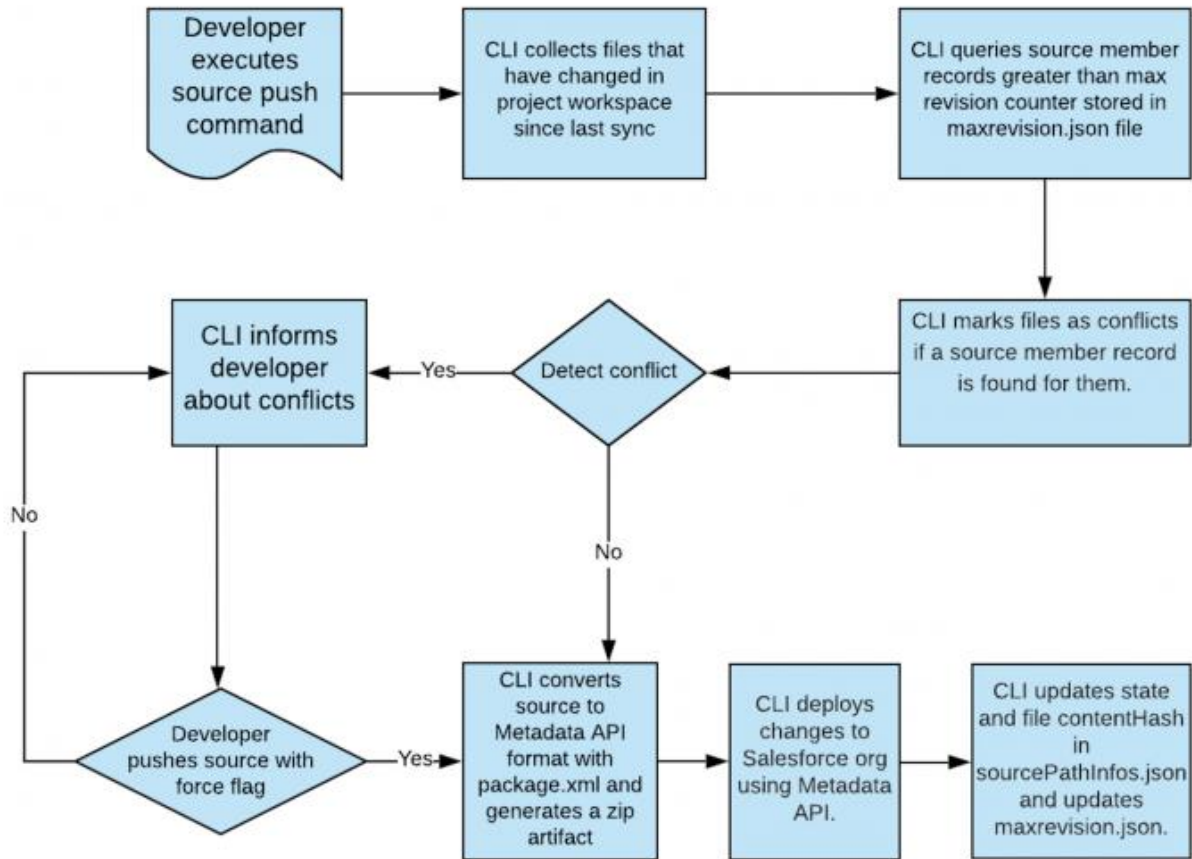
Salesforce is currently providing various software solutions and platforms for developers to create and distribute custom software/applications. Tech giants like Google, Twitter, Amazon, and Facebook are using Salesforce either in the form of SaaS or PaaS.



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.

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:

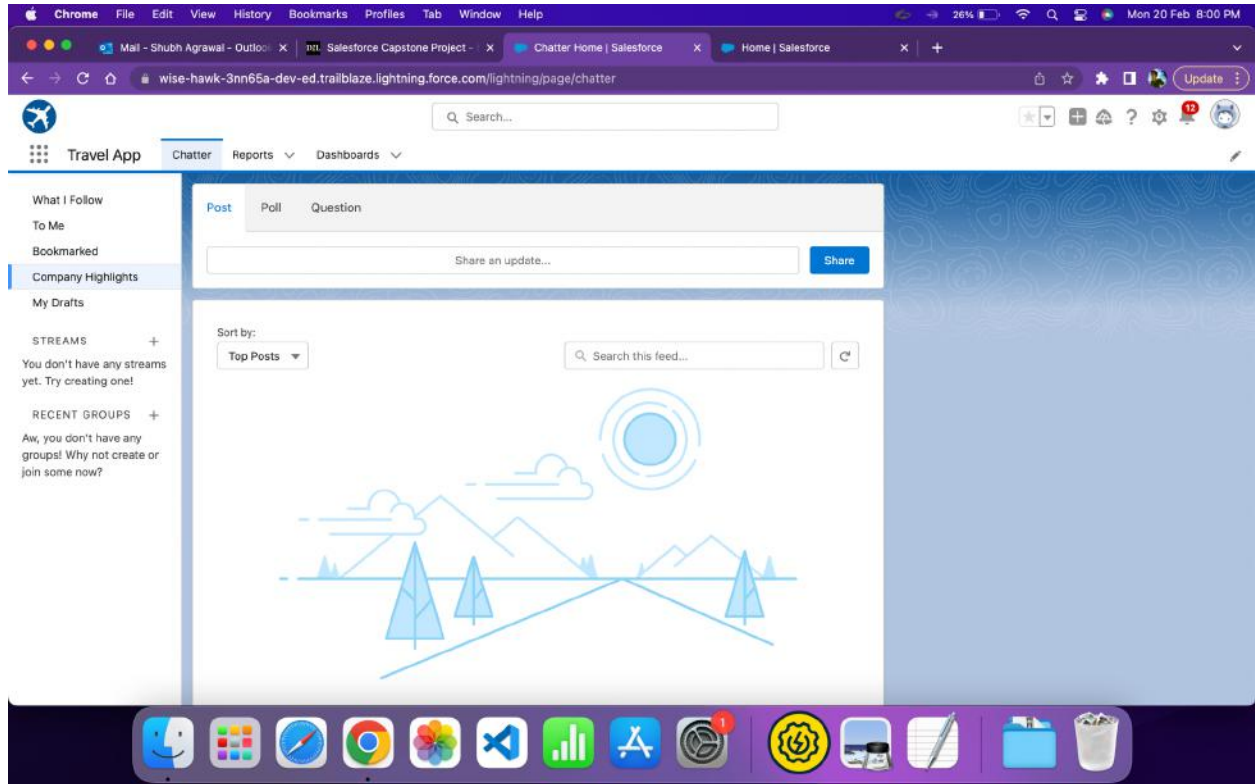
- An Octane 2.0 score of 20,000 or greater
- Network latency of 200 ms or less
- Download speed of 1 Mbps or greater
- At least 5 GB of RAM, with 2 GB available for Salesforce browser tabs

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:



Chrome File Edit View History Bookmarks Profiles Tab Window Help 22% Mon 20 Feb 8:33 PM

Mail - Shubh Agrawal - Outlook Salesforce Capstone Project - Home | Salesforce TA00001 | Salesforce

wise-hawk-3nn65a-dev-ed.trailblaze.lightning.force.com/lightning/r/Travel_Approval__c/a012w000017AEeUAAW/view

Travel App Travel Approvals Departments Chatter Reports Dashboards

Travel Approval TA00001 New Contact Edit New Opportunity

Related Details

Travel Approval # TA00001 Owner Shubh Agrawal

Purpose Of Trip Business trip

Status New

Trip Start Date 21/02/2023

Trip End Date 24/02/2023

Out Of State ☒

Destination State US

Department Audit Services

Created By Shubh Agrawal, 20/02/2023, 8:33 pm Last Modified By Shubh Agrawal, 20/02/2023, 8:33 pm

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.

Chrome File Edit View History Bookmarks Profiles Tab Window Help 23% Mon 20 Feb 8:31 PM

Mail - Shubh Agrawal - Outlook Salesforce Capstone Project - Home | Salesforce All | Departments | Salesforce

wise-hawk-3nn65a-dev-ed.trailblaze.lightning.force.com/lightning/o/Department__c/list?filterName=00B2w00000YN4MREA1

Travel App Travel Approvals Departments Chatter Reports Dashboards

Departments All New Import Change Owner Printable View

16 items - Sorted by Department Name - Filtered by All departments - Updated a few seconds ago

Search this list...

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

Chrome File Edit View History Bookmarks Profiles Tab Window Help 16% Mon 20 Feb 9:12 PM

Mail - Shubh Agrawal - Outlook Salesforce Capstone Project - Search Layouts | Salesforce TA00001 | Salesforce

wise-hawk-3nn65a-dev-ed.trailblaze.lightning.force.com/lightning/r/Travel_Approval__c/a012w000017AEeUAAW/view

Travel App Travel Approvals Departments Expense Items Chatter Reports Dashboards

Travel Approval TA00001

New Contact Edit New Opportunity

Related Details

Expense Items (1)

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

View All

Activity

Filters: All time All activities All types

Refresh Expand All View All

Upcoming & Overdue

No activities to show.

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

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

javascript:void(0)

Chrome File Edit View History Bookmarks Profiles Tab Window Help 16% Mon 20 Feb 9:26 PM

Mail - Shubh Agrawal - Outlook Salesforce Capstone Project - Home | Salesforce TA00002 | Salesforce how to on admin can login as

wise-hawk-3nn65a-dev-ed.trailblaze.lightning.force.com/lightning/r/Travel_Approval__c/a012w000017AEeAAG/view

Travel App Travel Approvals Departments Expense Items Chatter Reports Dashboards

Travel Approval TA00002

+ Follow Edit New Contact New Opportunity

Post Poll Question

Share an update... Share

Search this feed...

Shubh Agrawal 4m ago

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

1 comment · 1 view

Like Comment

Eric Executive 2 minutes ago

Technology is the correct department

Like

Write a comment...

Travel Approval # TA00002

Status Draft

Out Of State ☒

Destination State CA

Trip Info

Purpose Of Trip Attend Dreamforce

Trip Start Date 21/02/2023

Trip End Date 23/02/2023

Created By Shubh Agrawal, 20/02/2023, 8:36 pm

Owner Shubh Agrawal

Department Technology

Last Modified By Shubh Agrawal, 20/02/2023, 8:36 pm

javascript:void(0)

Module 2:

The screenshot shows the Salesforce Setup interface for the 'Travel Approval' object. The 'Fields & Relationships' tab is selected, displaying a list of 13 fields. The fields are sorted by Field Label. The table below lists the fields and their properties.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	Lookup(User)		
Department	Department__c	Lookup(Department)		✓
Destination State	Destination_State__c	Text(2)		
Last Modified By	LastModifiedById	Lookup(User)		
Out Of State	Out_Of_State__c	Checkbox		
Owner	OwnerId	Lookup(User,Group)		✓
Purpose Of Trip	Purpose_Of_Trip__c	Text Area(255)		
Status	Status__c	Picklist		
Status Indicator	Status_Indicator__c	Formula (Text)		
Total Expenses	Total_Expenses__c	Roll-Up Summary (SUM Expense Item)		
Travel Approval #	Name	Auto Number		✓

The screenshot shows the Salesforce Travel App interface for the 'Travel Approval' object. The 'Details' tab is selected, displaying the record details for 'Travel Approval # TA00001'. The record is owned by 'Shubh Agrawal' and is in the 'New' status. The 'Trip Info' section shows the purpose of the trip as 'Business trip', the start date as '21/02/2023', and the end date as '24/02/2023'. The 'Total Expenses' are ₹870.00. The 'Status Indicator' is set to 'US'. The 'Activity' section shows no upcoming or overdue activities.

Travel Approval # TA00001

Details

Travel Approval # TA00001

Status: New

Out Of State: ☒

Destination State: US

Total Expenses: ₹870.00

Status Indicator: US

Trip Info

Purpose Of Trip: Business trip

Trip Start Date: 21/02/2023

Trip End Date: 24/02/2023

Created By: Shubh Agrawal, 20/02/2023, 8:33 pm

Last Modified By: Shubh Agrawal, 27/02/2023, 12:26 pm

Activity

Filters: All time - All activities - All types

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.

Mail - Shubh Agrawal - Outlook x (3) | Microsoft Teams x Salesforce Capstone Project - x Travel Approval | Salesforce x

wise-hawk-3nn65a-dev-ed.trailblaze.lightning.force.com/lightning/setup/ObjectManager/012w0000034rhL/ValidationRules/03d2w00000dX97AAE/view

Setup Home Object Manager

SETUP > OBJECT MANAGER

Travel Approval

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Triggers

Flow Triggers

Travel Approval Validation Rule

[Back to Travel Approval](#) [Help for this Page](#)

Validation Rule Detail [Edit](#) [Clone](#)

Rule Name	Trip_end_date_after_start_date	Active	✓
Error Condition Formula	Trip_End_Date__c < Trip_Start_Date__c		
Error Message	Trip end date must be greater than or equal to start date.		Error Location Trip End Date
Description			
Created By	Shubh Agrawal, 20/02/2023, 9:45 pm	Modified By	Shubh Agrawal, 20/02/2023, 11:05 pm

[Edit](#) [Clone](#)

Mail - Shubh Agrawal x (3) | Microsoft Teams x Salesforce Capstone Project x TA00001 | Salesforce x Flows | Salesforce x Out of State Travel Flag - V1

wise-hawk-3nn65a-dev-ed.trailblaze.lightning.force.com/builder_platform_interaction/flowBuilder.app?flowId=3012w000001hHvsAAE

Flow Builder Out of State Travel Flag - V1

Free-Form Version 1: Active—Last modified 7 days ago [Run](#) [Debug](#) [View Tests](#) [Deactivate](#) [Save As](#) [Save](#)

Toolbox

Elements Manager

Logic (5)

- Assignment
- Decision
- Loop
- Collection Sort
- Collection Filter

Data (2)

- Update Records
- Get Records

Flow Diagram:

```
graph TD; Start([Start  
Record-Triggered Flow  
Object: Travel Approval  
Trigger: A record is created or updated  
Optimize for: Fast Field Updates  
Open Flow Trigger Explorer for Travel ...]) --> Decision{Decision  
Is Travel Out of State?}; Decision -- "Yes Out of State" --> Update1[Update Records  
Update Travel Approval Record]; Decision -- "In State" --> Update2[Update Records  
Update Travel Approval Record];
```

Get more on the AppExchange

Mail - Shubh Agrawal | [3] | Microsoft To Do | Salesforce Capstone | Untitled presentation | TA00002 | Salesforce | Users | Salesforce | Home | Salesforce

wise-hawk-3nn65a-dev-ed.trailblaze.lightning.force.com/lightning/r/Travel_Approval__c/a012w000017AEeeAAG/view

Travel App

Travel Approvals | Departments | Expense Items | Chatter | Reports | Dashboards

Travel Approval
TA00002

+ Follow | Edit | New Contact | New Opportunity

Related Details

Travel Approval #
TA00002

Status
Approved

Out Of State
☒

Destination State
CA

Total Expenses
₹450.00

Status Indicator

Owner
Shubh Agrawal

Department
Technology

▼ Trip Info

Purpose Of Trip
Attend Dreamforce

Trip Start Date
21/02/2023

Trip End Date
23/02/2023

Created By
Shubh Agrawal, 20/02/2023, 8:36 pm

Last Modified By
Shubh Agrawal, 20/02/2023, 11:35 pm

Activity Chatter

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.

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

Mail - Shubh Agrawal | Salesforce Capstone | Users | Salesforce | TA00002 Approval | Salesforce | Create an Approval Process | TA00002 | Salesforce

wise-hawk-3nn65a-dev-ed.trailblaze.lightning.force.com/lightning/r/ProcessInstanceWorkItem/0412w000003xrcHAAQ/view

Logged in as Eric Executive (eric123@gmail.com) | Log out as Eric Executive

Notifications

Travel App | Chatter | Reports | Dashboards | Departments | Travel Approvals | Expense Items | Travel_Approval__c

Approval Request
Travel Approval Approval Pending

Approve | Reject | Reassign

Submitter
Shubh Agrawal

Date Submitted
20-Feb-2023

Actual Approver
Eric Executive

Assigned To
Eric Executive

Details

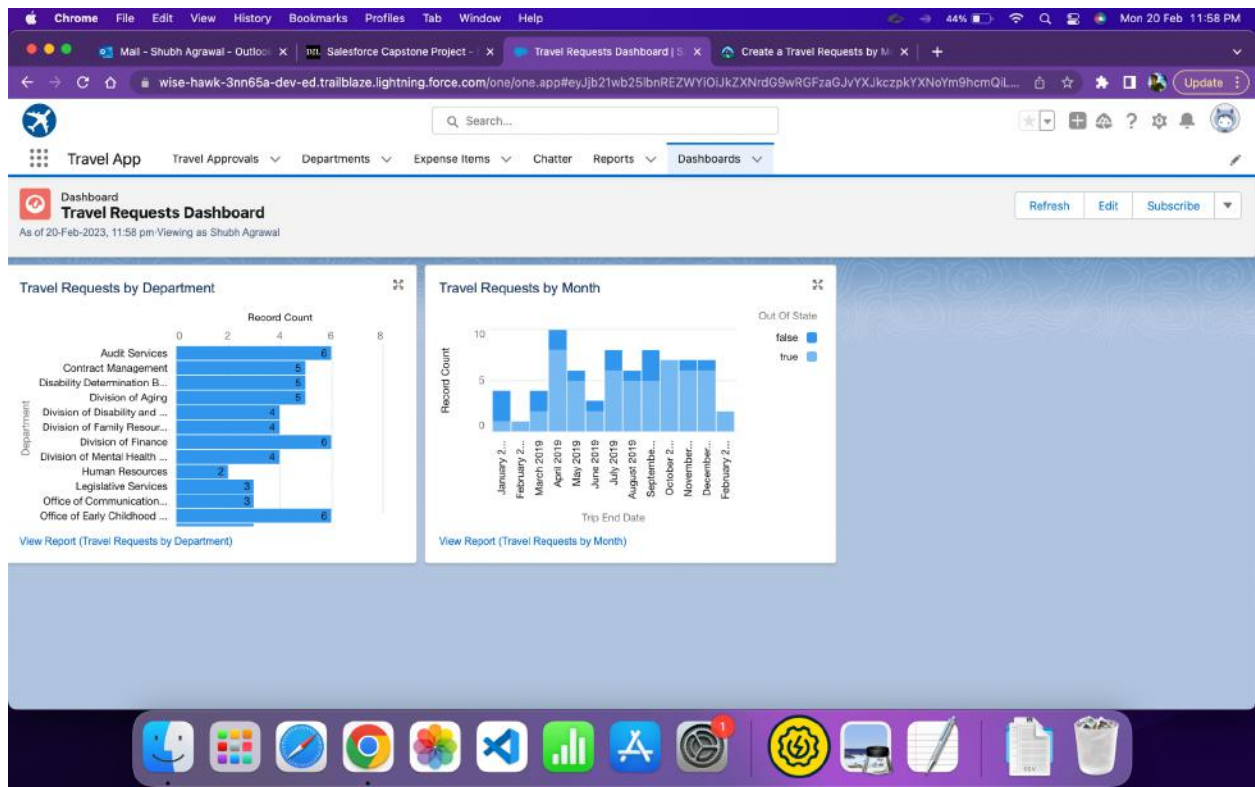
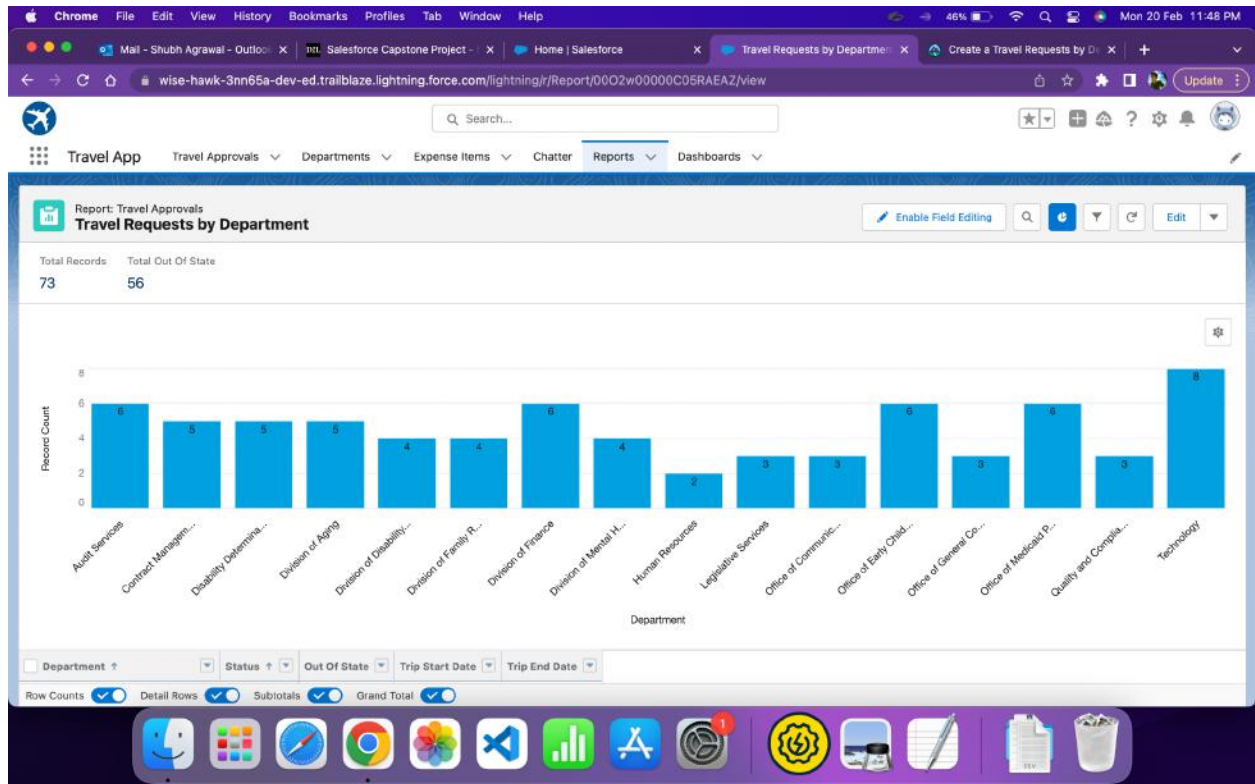
Approval Details

Travel Approval #
TA00002

Owner
Shubh Agrawal

Submitter Comments

Shubh Agrawal
Please approve or reject?
20-Feb-2023, 11:33:03 pm



Module 3:

The screenshot shows the Salesforce Developer Console interface. The top bar includes tabs for Mail, Microsoft Teams, Salesforce Capstone Project, and Developer Console. The browser address bar shows the URL: `wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. The main area displays the 'Enter Apex Code' editor with the following code:

```
1 String name = 'Shubh Agrawal';
2 if(name.endsWith('Agrawal')){
3     System.debug(name);
4 }
5
6
```

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

Timestamp	Event	Details
16:22:54:002	USER_DEBUG	[3][DEBUG]Shubh Agrawal

The screenshot shows the Salesforce Developer Console interface. The top bar includes tabs for Mail, Salesforce Capstone Project, and Developer Console. The browser address bar shows the URL: `wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. The main area displays the 'Enter Apex Code' editor with the following code:

```
1
2 date curr = Date.today();
3 date after = curr.addDays(30);
4
5 System.debug(curr);
6 System.debug(after);
7
```

Below the editor, the 'Execution Log' is visible, showing two entries:

Timestamp	Event	Details
18:57:48:003	USER_DEBUG	[5][DEBUG]2023-02-21 00:00:00
18:57:48:003	USER_DEBUG	[6][DEBUG]2023-03-23 00:00:00

Below the log, a table of log entries is displayed:

User	Application	Operation	Time	Status	Read	Size
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 18:57:48	Success		2.61 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 18:57:31	Success		3.4 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 18:30:15	Success		3.4 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 18:20:07	Success		1.98 KB

Enter Apex Code

```
1 integer x;|
2 String y='10';
3
4 x = integer.valueOf(y)+20;
5 System.debug(x);
```

☒ Open Log

Execute

Execute Highlighted

Operation	Time	Status	Read
/services/data/v57.0/tooling/execut...	21/02/2023, 18:57:48	Success	
/services/data/v57.0/tooling/execut...	21/02/2023, 18:37:31	Success	
/services/data/v57.0/tooling/execut...	21/02/2023, 18:30:15	Success	

wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help

Log executeAnonymous @21/02/2023, 18:37:31 Log executeAnonymous @21/02/2023, 18:57:48 Log executeAnonymous @21/02/2023, 19:02:58

Execution Log

Timestamp	Event	Details
19:02:58:003	USER_DEBUG	[5](DEBUG)30

☐ 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
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:02:58	Success	
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 18:57:48	Success	

Enter Apex Code

```
1
2 String y='I love salesforce';
3
4
5 System.debug(y.length());
```

☐ Filter Click to add filter

☐ View State

☒ Open Log

Execute

Execute Highlighted

Operation	Time	Status	Read
/services/data/v57.0/tooling/executeAnonymous?code=...	21/02/2023, 19:02:58	Success	
/services/data/v57.0/tooling/executeAnonymous?code=...	21/02/2023, 18:57:48	Success	

Chrome

File Edit View History Bookmarks Profiles Tab Window

Mail - Shubh Agrawal - X DDL Salesforce Capstone Pro X Develo

wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/

File Edit Debug Test Workspace Help < >

Log executeAnonymous @21/02/2023, 18:37:31 Log executeAnonymous @21/02/2023, 18:57:4

Execution Log

Timestamp	Event	Details
19:03:45:003	USER_DEBUG	[5] DEBUG 17

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

Salesforce Capstone Project - x Home | Salesforce x Developer Console x +

wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

Log executeAnonymous @21/02/2023, 19:49:07 Log executeAnonymous @21/02/2023, 19:51:04 Log executeAnonymous @21/02/2023, 19:51:35 Log executeAnonymous @21/02/2023, 19:55:07

Execution Log

Timestamp	Event	Details
19:55:07:002	USER_DEBUG	[4]DEBUG:Value of x is: 0
19:55:07:002	USER_DEBUG	[4]DEBUG:Value of x is: 1
19:55:07:002	USER_DEBUG	[4]DEBUG:Value of x is: 2
19:55:07:002	USER_DEBUG	[4]DEBUG:Value of x is: 3
19:55:07:002	USER_DEBUG	[4]DEBUG:Value of x is: 4
19:55:07:002	USER_DEBUG	[4]DEBUG:Value of x is: 5
19:55:07:002	USER_DEBUG	[4]DEBUG:Value of x is: 6
19:55:07:002	USER_DEBUG	[4]DEBUG:Value of x is: 7
19:55:07:002	USER_DEBUG	[4]DEBUG:Value of x is: 8
19:55:07:002	USER_DEBUG	[4]DEBUG:Value of x is: 9

Enter Apex Code

```
1 Integer x=20;
2 while(x>12){
3     For(integer x = 0; x < 10; x = x + 1){
4         system.debug('Value of x is: ' + x);
5     }
6     break;
7 }
8
```

☒ Open Log Execute Execute Highlighted

☐ 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
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execute...	21/02/2023, 19:55:07	Success		5.77 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execute...	21/02/2023, 19:51:35	Success		9.4 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execute...	21/02/2023, 19:51:04	Success		5.87 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execute...	21/02/2023, 19:49:07	Success		5.72 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execute...	21/02/2023, 19:44:47	Apex CPU time limit exceeded	Unread	18.83 MB

☐ Filter Click here to filter the log list

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

Salesforce Capstone Project - x Developer Console x Home | Salesforce x +

wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

Log executeAnonymous @21/02/2023, 19:49:07 Log executeAnonymous @21/02/2023, 19:51:04 Log executeAnonymous @21/02/2023, 19:51:35 Log executeAnonymous @21/02/2023, 19:55:07 Log executeAnonymous @21/02/2023, 20:01:22

Execution Log

Timestamp	Event	Details
20:01:22:003	USER_DEBUG	[6]DEBUG:False

Enter Apex Code

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

☒ Open Log Execute Execute Highlighted

☐ 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
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execute...	21/02/2023, 20:01:22	Success		2.55 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execute...	21/02/2023, 19:55:07	Success		5.77 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execute...	21/02/2023, 19:51:35	Success		9.4 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execute...	21/02/2023, 19:51:04	Success		5.87 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execute...	21/02/2023, 19:49:07	Success		5.72 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execute...	21/02/2023, 19:44:47	Apex CPU time limit exceeded	Unread	18.83 MB

☐ Filter Click here to filter the log list

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

Salesforce Capstone Project - x Developer Console x Home | Salesforce x +

wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

Log executeAnonymous @ 21/02/2023, 19:55:07 Log executeAnonymous @ 21/02/2023, 20:01:22 Log executeAnonymous @ 21/02/2023, 20:03:17 Log executeAnonymous @ 21/02/2023, 20:04:28 Log executeAnonymous @ 21/02/2023, 20:08:44

Execution Log

Timestamp	Event	Details
20:08:44:003	USER_DEBUG	[5][DEBUG]Grade : B

Enter Apex Code

```
1 Integer score=80;
2
3 if(score==100){System.debug('Grade : A+');}
4 else if(score>=90){System.debug('Grade : A');}
5 else if(score>=80){System.debug('Grade : B');}
6 else{System.debug('Grade : Failed');}
```

☒ Open Log Execute Execute Highlighted

☐ 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
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/executeAnonymous?code=...	21/02/2023, 20:08:44	Success		2.38 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/executeAnonymous?code=...	21/02/2023, 20:04:28	Success		2.6 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/executeAnonymous?code=...	21/02/2023, 20:03:17	Success		2.49 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/executeAnonymous?code=...	21/02/2023, 20:01:22	Success		2.55 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/executeAnonymous?code=...	21/02/2023, 19:55:07	Success		5.77 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/executeAnonymous?code=...	21/02/2023, 19:51:35	Success		9.4 KB

☐ Filter Click here to filter the log list

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

Salesforce Capstone Project - x Developer Console x Recently Viewed | Billings | Sales x Billing | Salesforce x Getting error Expecting ']' but x +

wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

myDemo.apxc Log executeAnonymous @ 21/02/2023, 21:11:01

Code Coverage: None API Version: 57 Go To

```
1 public class myDemo {
2     public static void statusPaid(){
3         List<Billing_c> bills = [select id,Name, Status__c from Billing__c];
4         List<String> mylist = new List<String>();
5
6         for(Billing__c bill : bills){
7             if(bill.Status__c == 'paid'){
8                 System.debug('Value of Current Record in the Loop'+ bill);
9                 mylist.add(bill.Name);
10            }
11        }
12        System.debug('Billing records are: '+mylist);
13    }
14 }
15 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/executeAnonymous?code=...	21/02/2023, 21:11:01	Success		6.25 KB

☐ Filter Click here to filter the log list

Chrome | File | Edit | View | History | Bookmarks | Profiles | Tab | Window | Help | 83% | Tue 21 Feb 9:11 PM

Salesforce Capstone Project - x Developer Console x Recently Viewed | Billings | Sales | Billing | Salesforce x Getting error Expecting '}' but x +

wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

myDemo.apxc Log executeAnonymous @21/02/2023, 21:11:01

Execution Log

Timestamp	Event	Details
21:11:01:042	USER_DEBUG	[8][DEBUG]Value of Current Record in the LoopBilling__c:[Id=a042w00000wG31AAU, Name=B - 0002, Status__c=Paid]
21:11:01:042	USER_DEBUG	[8][DEBUG]Value of Current Record in the LoopBilling__c:[Id=a042w00000wG31AAU, Name=B - 0001, Status__c=Paid]
21:11:01:042	USER_DEBUG	[12][DEBUG]Billing records are: (B - 0002, B - 0001)

☐ 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
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 21:11:01	Success		6.25 KB

☐ Filter Click here to filter the log list

Mac dock icons: Finder, Launchpad, Safari, Chrome, Photos, VS Code, Analytics, Mail, App Store, Messages, Notes, Reminders, Calendar, Photos, Files, Trash.

Chrome | File | Edit | View | History | Bookmarks | Profiles | Tab | Window | Help | 81% | Tue 21 Feb 9:28 PM

Salesforce Capstone Project - x Developer Console x Recently Viewed | Billings | Sales | Billing | Salesforce x Getting error Expecting '}' but x +

wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

myDemo.apxc DiscountClass.apxc Log executeAnonymous @21/02/2023, 21:28:47

Code Coverage: None API Version: 57 Go To

```
1 public class DiscountClass {
2     final decimal regularDiscount=10;
3     decimal finalPrice ;
4
5     public decimal calculateDiscount(Integer price) {
6         this.finalPrice = price - (price*regularDiscount)/100;
7         return this.finalPrice;
8     }
9 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 21:28:47	Success		4.46 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 21:28:25	Success		4.53 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 21:26:57	Success		4.22 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 21:19:34	Success		4.16 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 21:19:05	Success		4.16 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 21:11:01	Success		6.25 KB

☐ Filter Click here to filter the log list

Mac dock icons: Finder, Launchpad, Safari, Chrome, Photos, VS Code, Analytics, Mail, App Store, Messages, Notes, Reminders, Calendar, Photos, Files, Trash.

Chrome | File | Edit | View | History | Bookmarks | Profiles | Tab | Window | Help | Tue 21 Feb 9:28 PM

Salesforce Capstone Project - x Developer Console x Recently Viewed | Billings | Sales | Billing | Salesforce x Getting error Expecting '}' but

wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help

myDemo.apxc DiscountClass.apxc Log executeAnonymous @21/02/2023, 21:28:47

Execution Log

Timestamp	Event	Details
21:28:47:006	USER_DEBUG	[2][DEBUG]finalPrice : 90

☐ 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
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execute...	21/02/2023, 21:28:47	Success		4.46 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execute...	21/02/2023, 21:28:25	Success		4.53 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execute...	21/02/2023, 21:26:57	Success		4.22 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execute...	21/02/2023, 21:19:34	Success		4.16 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execute...	21/02/2023, 21:19:05	Success		4.16 KB
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execute...	21/02/2023, 21:11:01	Success		6.25 KB

☐ Filter Click here to filter the log list

Mac dock icons: Finder, Launchpad, Safari, Chrome, Photos, VS Code, Analytics, System Monitor, Docker, Jira, Notes, Reminders, Mail, Trash.

Chrome | File | Edit | View | History | Bookmarks | Profiles | Tab | Window | Help | Tue 21 Feb 9:37 PM

Salesforce Capstone Project - x Developer Console x Recently Viewed | Billings | Sales | Billing | Salesforce x

wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help

myDemo.apxc DiscountClass.apxc InterfaceExample.apxc PremiumCustomer.apxc normalCustomer.apxc Log executeAnonymous @21/02/2023, 21:37:12

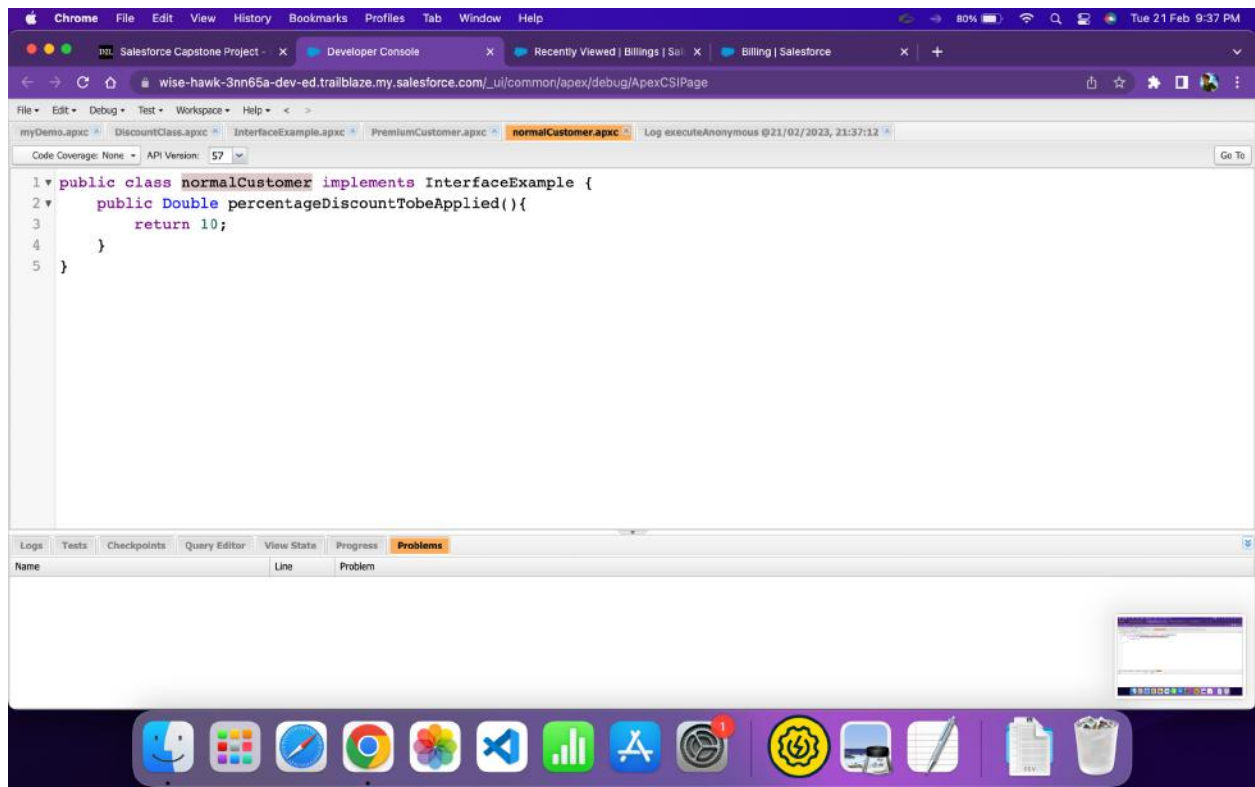
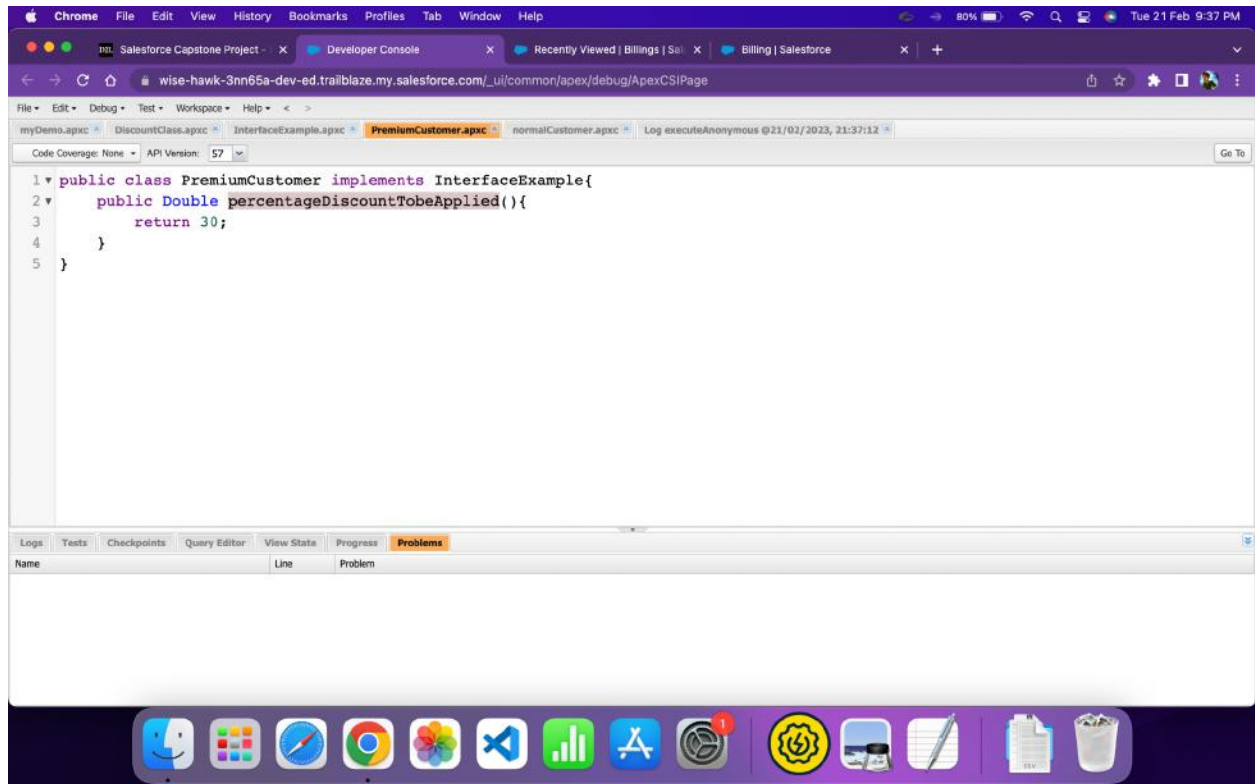
Code Coverage: None API Version: 57 Go To

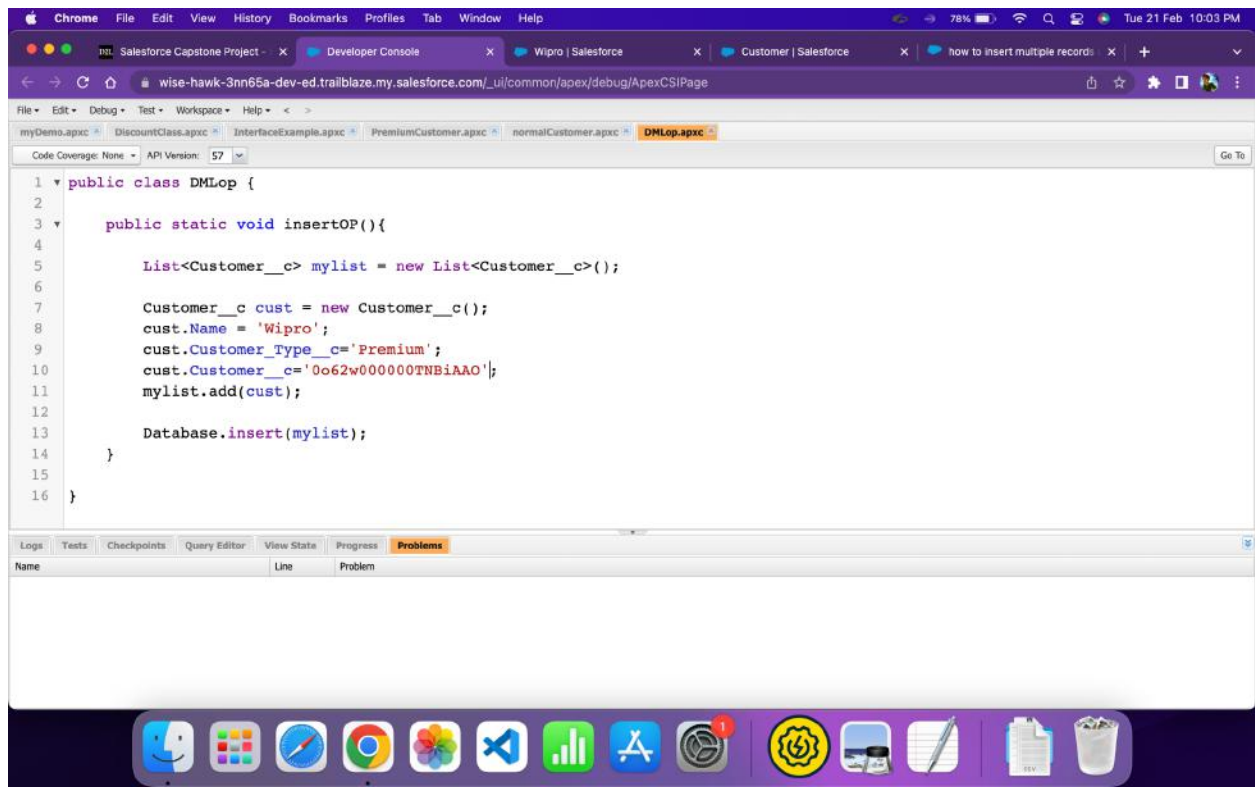
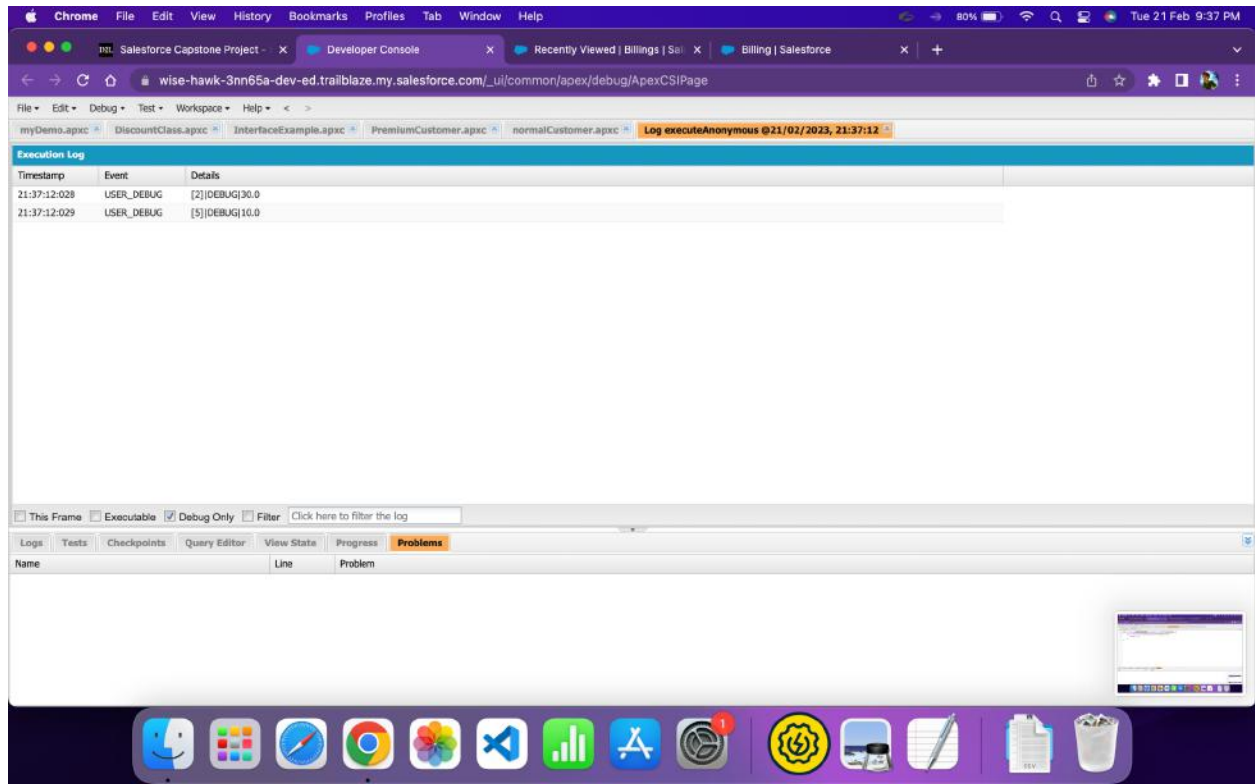
```
1 public interface InterfaceExample {
2     Double percentageDiscountToBeApplied();
3 }
```

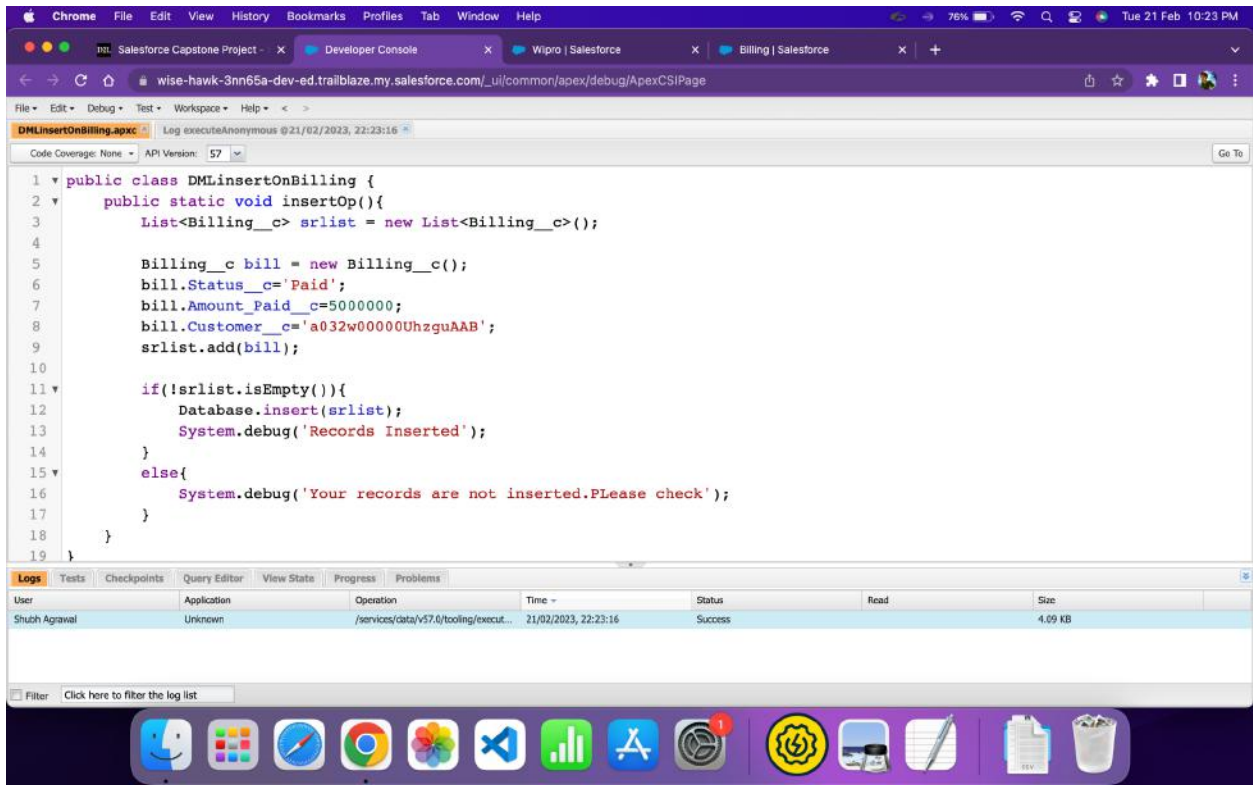
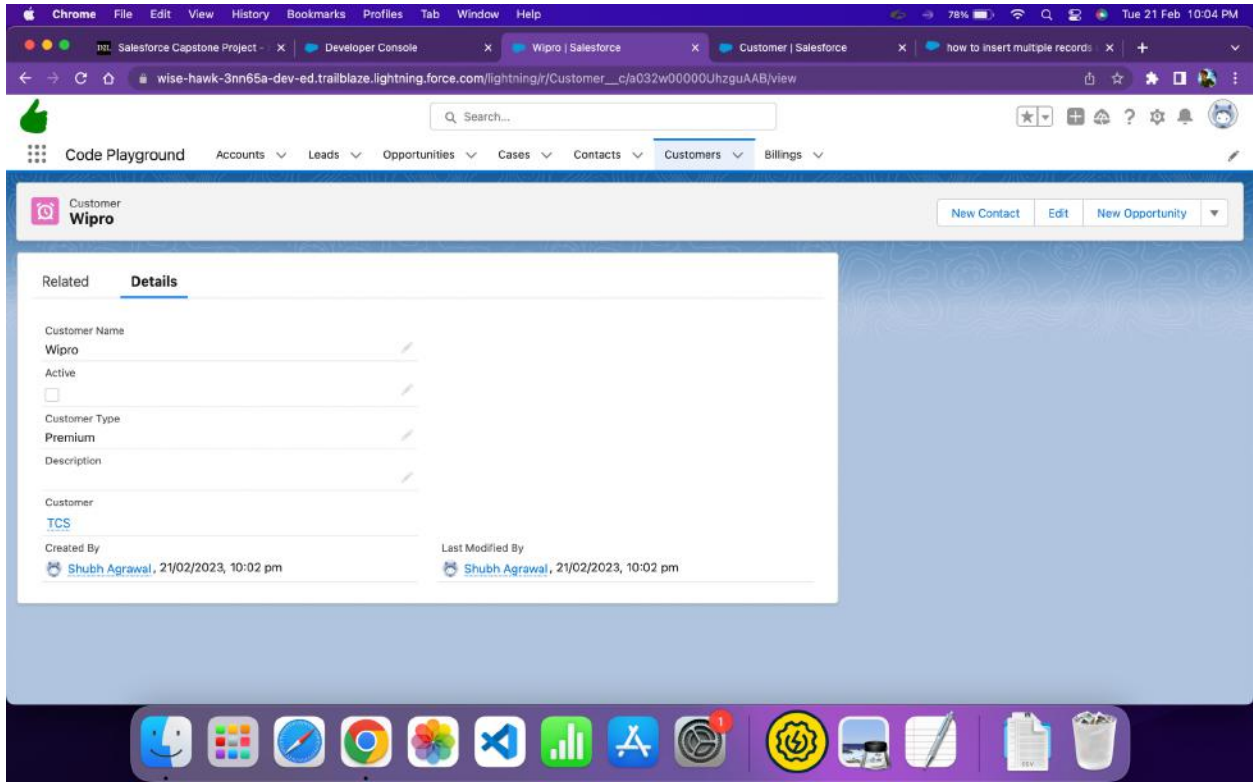
Logs Tests Checkpoints Query Editor View State Progress Problems

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

Mac dock icons: Finder, Launchpad, Safari, Chrome, Photos, VS Code, Analytics, System Monitor, Docker, Jira, Notes, Reminders, Mail, Trash.







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

Salesforce Capstone Project - x Developer Console x Wipro | Salesforce x Billing | Salesforce x

wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help

DMLInsertOnBilling.apex Log executeAnonymous @21/02/2023, 22:23:16

Execution Log

Timestamp	Event	Details
22:23:16:057	USER_DEBUG	[13][DEBUG]Records Inserted

☐ 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
Shubh Agrawal	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 22:23:16	Success		4.09 KB

Filter Click here to filter the log list

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

Salesforce Capstone Project - x Developer Console x Account | Salesforce x Edge Prime | Salesforce x

wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help

Opportunity@11:04 PM

select Id, Amount, StageName, AccountId, Account.Name, Account.Website From Opportunity Where Account.Name = 'Energy' AND Account.AnnualRevenue > 5000

Query Results - Total Rows: 2

Id	Amount	StageName	AccountId	AccountName	Account.Website
0062w000003pdgAAB	5678903	Qualification	0012w00001LLZYPAAS	Energy	Energy@company.com
0062w000003pdhAAB		Value Proposition	0012w00001LLZYPAAS	Energy	Energy@company.com

Query Grid: Save Rows Insert Row Delete Row Refresh Grid

Access in Salesforce: Create New Open Detail Page Edit Page

Logs Tests Checkpoints Query Editor View State Progress Problems

select Id, Amount, StageName, AccountId, Account.Name, Account.Website From Opportunity Where Account.Name = 'Energy' AND Account.AnnualRevenue > 5000

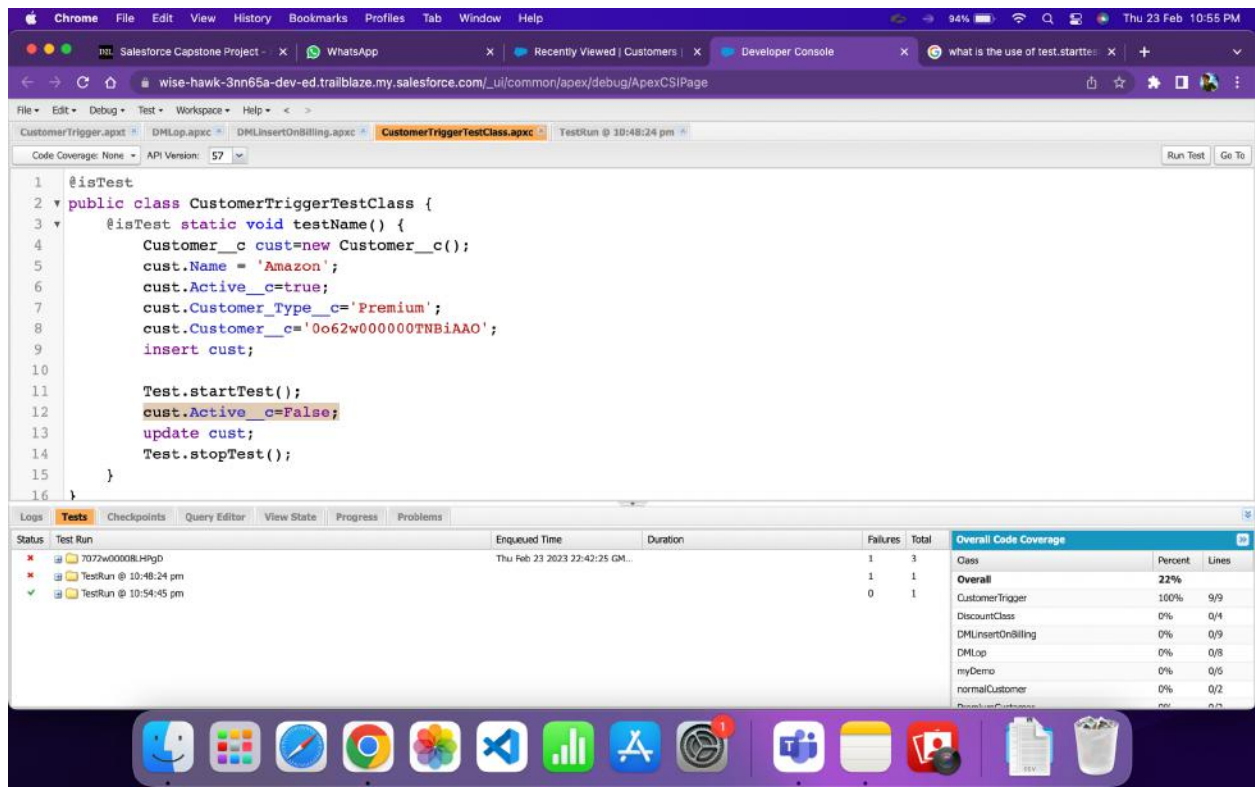
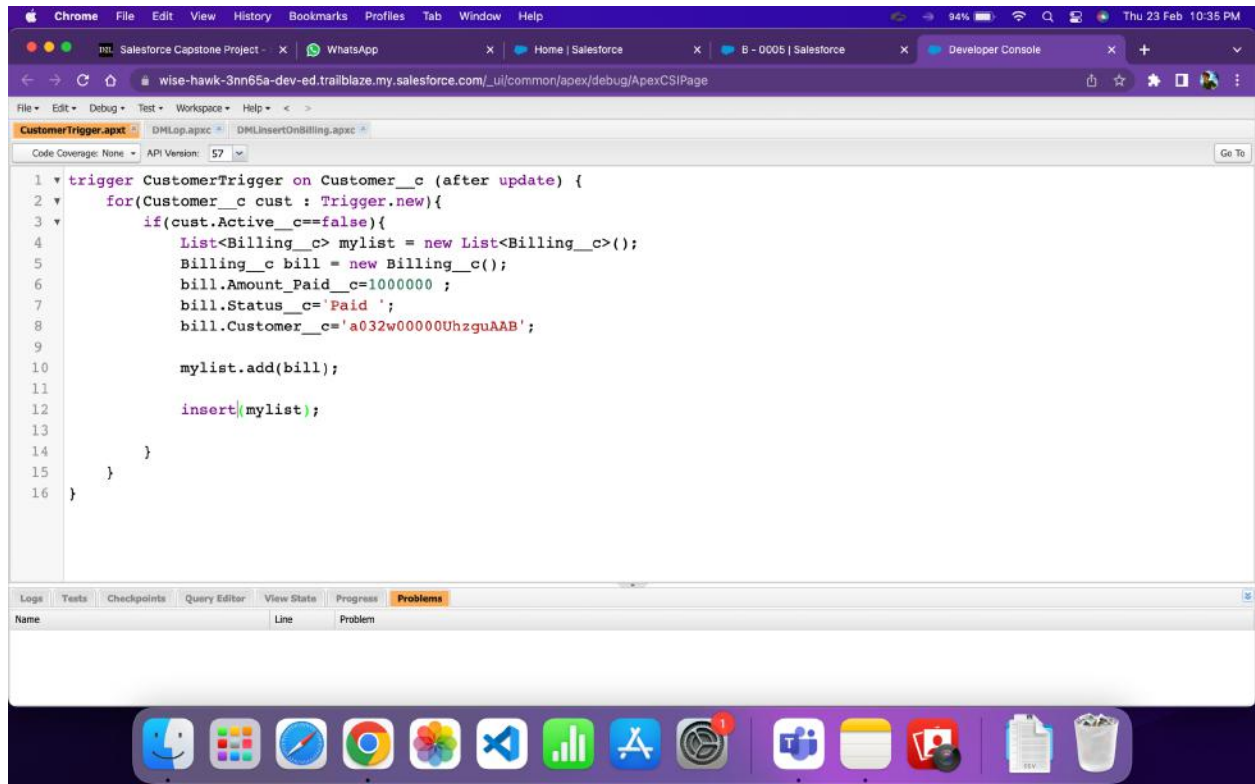
Any query errors will appear here...

Execute ☐ Use Tooling API

History

Executed

select Id, Amount, StageName, AccountId, Account.Name, Account...



Chrome File Edit View History Bookmarks Profiles Tab Window Help

Salesforce Capstone Project - x Developer Console x WhatsApp x Recently Viewed | Customers | x what is the use of test.startTest() x +

wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

CustomerTrigger.apxt DMLop.apxt DMLInsertOnBilling.apxt CustomerTriggerTestClass.apxt TestRun @ 10:48:24 pm DisqualifyTestLeads.apxt DisqualifyTestLeads.apxt

Code Coverage: None API Version: 57 Go To

```

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 }

```

Logs Tests Checkpoints Query Editor View State Progress Problems

Status	Test Run	Enqueued Time	Duration	Failures	Total
✖	7072w00008UjhgD	Thu Feb 23 2023 22:42:25 GM...		1	3
✖	TestRun @ 10:48:24 pm			1	1
✔	TestRun @ 10:54:45 pm			0	1
✔	TestRun @ 11:19:09 pm			0	1

Overall Code Coverage		
Class	Percent	Lines
Overall	35%	
CustomerTrigger	100%	9/9
DiscountClass	0%	0/4
DisqualifyTestLeads	100%	8/8
DMLInsertOnBilling	0%	0/9
DMLop	0%	0/8
TestRunner	100%	0/5

Mac dock icons: Finder, Launchpad, Safari, Chrome, Photos, VS Code, Analytics, App Store, System Settings, Messages, Calendar, Reminders, Notes, Mail, Trash.

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Salesforce Capstone Project - x Developer Console x WhatsApp x Recently Viewed | Customers | x what is the use of test.startTest() x +

wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

CustomerTrigger.apxt DMLop.apxt DMLInsertOnBilling.apxt CustomerTriggerTestClass.apxt TestRun @ 10:48:24 pm DisqualifyTestLeads.apxt DisqualifyTestLeads.apxt

Code Coverage: None API Version: 57 Run Test Go To

```

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 }

```

Logs Tests Checkpoints Query Editor View State Progress Problems

Status	Test Run	Enqueued Time	Duration	Failures	Total
✖	7072w00008UjhgD	Thu Feb 23 2023 22:42:25 GM...		1	3
✖	TestRun @ 10:48:24 pm			1	1
✔	TestRun @ 10:54:45 pm			0	1
✔	TestRun @ 11:19:09 pm			0	1

Overall Code Coverage		
Class	Percent	Lines
Overall	35%	
CustomerTrigger	100%	9/9
DiscountClass	0%	0/4
DisqualifyTestLeads	100%	8/8
DMLInsertOnBilling	0%	0/9
DMLop	0%	0/8
TestRunner	100%	0/5

Mac dock icons: Finder, Launchpad, Safari, Chrome, Photos, VS Code, Analytics, App Store, System Settings, Messages, Calendar, Reminders, Notes, Mail, Trash.

Chrome browser window showing the Salesforce Developer Console. The URL bar displays: `wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. The console shows the following Apex code:

```
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>
```

The console also displays a table of test results and overall code coverage:

Status	Test Run	Enqueued Time	Duration	Failures	Total
✖	7072w00008UjHhQ0	Thu Feb 23 2023 22:42:25 GM...		1	3
✖	TestRun @ 10:48:24 pm			1	1
✔	TestRun @ 10:54:45 pm			0	1
✔	TestRun @ 11:19:09 pm			0	1

Overall Code Coverage		
Class	Percent	Lines
DisqualifyTestLeads	100%	8/8
DMLInsertOnBilling	0%	0/9
DMLop	0%	0/8
myDemo	0%	0/6
normalCustomer	0%	0/2
PremiumCustomer	0%	0/2

Chrome browser window showing the Salesforce Visualforce page. The URL bar displays: `wise-hawk-3nn65a-dev-ed--c.trailblaze.vf.force.com/apex/OppView`. The page title is "Opportunity Details". The page content displays the following fields:

Opportunity Name	Amount
Close Date	Account Name

Chrome File Edit View History Bookmarks Profiles Tab Window Help 92% Thu 23 Feb 11:25 PM

Salesforce Capstone X Developer Console X https://wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help

CustomerTrigger.apxt DMLop.apxt DMLInsertOnBilling.apxt CustomerTriggerTestClass.apxt TestRun @ 10:48:24 pm DisqualifyTestLeads.apxt DisqualifyTestLeads.apxt OppView.vfp AccountList.vfp

Preview API Version: 57

```
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>
```

Logs Tests Checkpoints Query Editor View State Progress Problems

Status	Test Run	Enqueued Time	Duration	Failures	Total
✖	7072w00008UJh9D	Thu Feb 23 2023 22:42:25 GM...		1	3
✖	TestRun @ 10:48:24 pm			1	1
✔	TestRun @ 10:54:45 pm			0	1
✔	TestRun @ 11:19:09 pm			0	1

Overall Code Coverage		
Class	Percent	Lines
Class		
DisqualifyTestLeads	100%	8/8
DMLInsertOnBilling	0%	0/9
DMLop	0%	0/8
myDemo	0%	0/6
normalCustomer	0%	0/2
PremiumCustomer	0%	0/2

Mac dock icons: Finder, Launchpad, Safari, Chrome, Photos, VS Code, Analytics, Mail, Calendar, Reminders, Notes, Messages, Trash.

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Salesforce Capstone X Developer Console X https://wise-hawk-3nn65a-dev-ed--c.trailblaze.vf.force.com/apex/AccountList

- Burlington Textiles Corp. of America
- Dickerson tile
- Edco Communications
- Energy
- Express Logistics and Transport
- GeniePoint
- Grand Hotels & Resorts Ltd
- Pyramis Construction Inc.
- Sample Account for Entitlements
- aForce
- United Oil & Gas Corp.
- United Oil & Gas - Singapore
- United Oil & Gas - UK
- University of Arizona

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Thumbnail of the previous screenshot.

Chrome File Edit View History Bookmarks Profiles Tab Window Help 92% Thu 23 Feb 11:28 PM

Salesforce Capstone Pro x Developer Console x WhatsApp x Recently Viewed | Oppor x Visualforce Pages | Sale x what is the use of test.s x +

wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

DMLInsertOnBilling.apac CustomerTriggerTestClass.apac TestRun @ 10:48:24 pm DisqualifyTestLeads.apxt DisqualifyTestLeads.apex OppView.vfp AccountList.vfp NewCaseList.vfp NewCaseListController.apac

Preview API Version: 57

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

Logs Tests Checkpoints Query Editor View State Progress Problems

Status	Test Run	Enqueued Time	Duration	Failures	Total
	7072w00008UJH9d0	Thu Feb 23 2023 22:42:25 GM...		1	3
✖	TestRun @ 10:48:24 pm			1	1
✔	TestRun @ 10:54:45 pm			0	1
✔	TestRun @ 11:19:09 pm			0	1

Overall Code Coverage		
	Percent	Lines
Class		
Overall	33%	
CustomerTrigger	100%	9/9
DiscountClass	0%	0/4
DisqualifyTestLeads	100%	8/8
DMLInsertOnBilling	0%	0/9
DMLop	0%	0/8
my Comm	0%	0/5

Mac OS dock with icons for Finder, Launchpad, Safari, Chrome, Photos, VS Code, Numbers, App Store, System Settings, Teams, Calendar, Reminders, Mail, and Trash.

Chrome File Edit View History Bookmarks Profiles Tab Window Help 92% Thu 23 Feb 11:28 PM

Salesforce Capstone Pro x Developer Console x WhatsApp x Recently Viewed | Oppor x Visualforce Pages | Sale x what is the use of test.s x +

wise-hawk-3nn65a-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

DMLInsertOnBilling.apxc CustomerTriggerTestClass.apxc TestRun @ 10:48:24 pm DisqualifyTestLeads.apxt DisqualifyTestLeads.apxc OppView.vfp AccountList.vfp NewCaseList.vfp NewCaseListController.apxc Go To

Code Coverage: None API Version: 57

```
1 public class NewCaseListController {
2     public List<case> getNewCases(){
3         List<case> results =Database.query('SELECT ID, CaseNumber from Case where Status = \'New\');
4         return results;
5     }
6
7 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

Status	Test Run	Enqueued Time	Duration	Failures	Total
	7072w00008JHhg0	Thu Feb 23 2023 22:42:25 GM...		1	3
✖	TestRun @ 10:48:24 pm			1	1
✔	TestRun @ 10:54:45 pm			0	1
✔	TestRun @ 11:19:09 pm			0	1

Overall Code Coverage		
Class	Percent	Lines
Overall	33%	
CustomerTrigger	100%	9/9
DiscountClass	0%	0/4
DisqualifyTestLeads	100%	8/8
DMLInsertOnBilling	0%	0/9
DMLop	0%	0/8
op Comm	0%	0/5

Mac dock icons: Finder, Launchpad, Safari, Chrome, Photos, VS Code, Numbers, App Store, System Settings, Microsoft Teams, Calendar, Reminders, Mail, Trash.

Chrome File Edit View History Bookmarks Profiles Tab Window Help 92% Thu 23 Feb 11:28 PM

Salesforce Capstone Pro x Developer Console x https://wise-hawk-3nn65a-dev-ed--c.trailblaze.vf.force.com/apex/NewCaseList x WhatsApp x Recently Viewed | x Visualforce Pages | x what is the use of x +

wise-hawk-3nn65a-dev-ed--c.trailblaze.vf.force.com/apex/NewCaseList

00001002
00001018
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](#)