

Phase-End Project

Customer Support Logger

Aim:

To develop a web application helps them to record their customer support executive's daily contribution toward customer support activities.

GitHub Link:

<https://github.com/Sukirthalakshmanan1/customer>

Procedure:

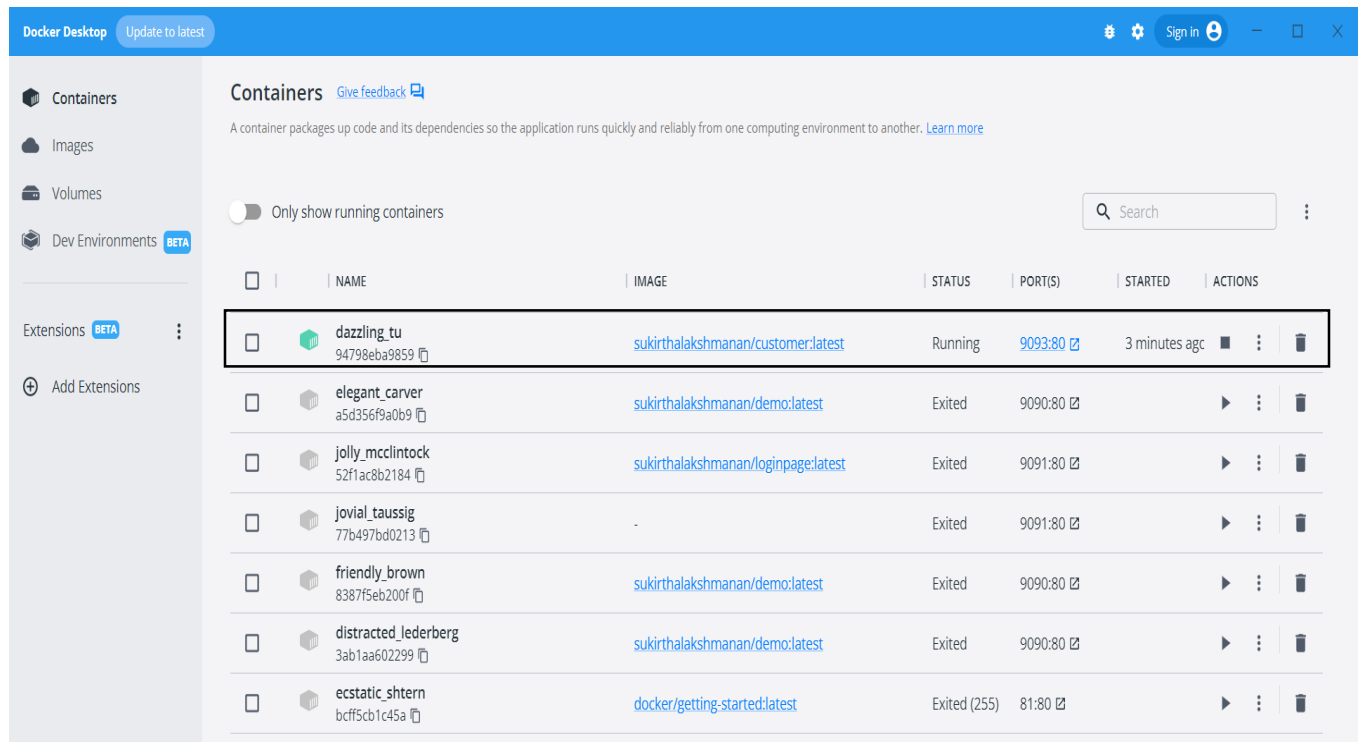
- ✓ Create an ASP.NET MVC application and enable the docker support.
- ✓ Docker file will be created .
- ✓ Create a SQL database in Azure named customer.
- ✓ Create an ado.model in the model and used DB First approach and select the connections and necessary authentications.
- ✓ select the tables(UserInfo and custinfo) and click finish.
- ✓ Create a Library DAL and write Test in it.
- ✓ In the Home controller Login and complaint page code is written.
- ✓ Create views Index and Dashboard and run in IIS
- ✓ Create a new Git Repository and push the code to GitHub
- ✓ Open Jenkins and create new item -> free style project and click ok.
- ✓ Go to configure and go to Github repository and paste the Github link
- ✓ And write your credentials
- ✓ Save and build
- ✓ After successful build go to configure and add visual studio
- ✓ And copy the msbuild path and paste and save
- ✓ Build now
- ✓ On successful build Console Output is shown.
- ✓ Go to configure and build trigger->build periodically
- ✓ Set the time to build automatically and click save.
- ✓ Build happens automatically.

Docker commands:

- docker build -t dockerid/loginpage:latest .
- docker run -p 9091:80 dockerhubid/projectname -p

Output:

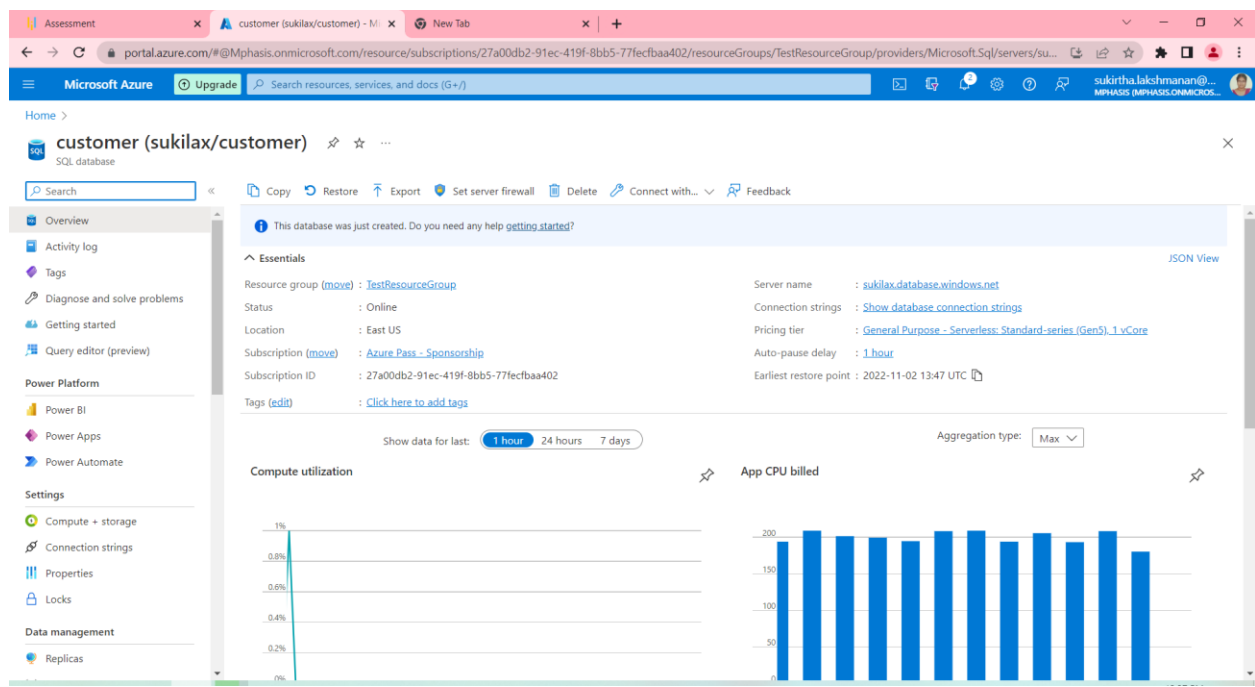
Docker Desktop output after creating MVC application with docker support:



The screenshot shows the Docker Desktop application window. The left sidebar contains navigation options: Containers, Images, Volumes, Dev Environments (BETA), Extensions (BETA), and Add Extensions. The main area is titled 'Containers' and includes a search bar and a toggle for 'Only show running containers'. A table lists several containers with their names, IDs, images, status, ports, and start times.

	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>	dazzling_tu 94798eba9859	sukirthalakshmanan/customer:latest	Running	9093:80	3 minutes ago	
<input type="checkbox"/>	elegant_carver a5d356f9a0b9	sukirthalakshmanan/demo:latest	Exited	9090:80		
<input type="checkbox"/>	jolly_mcclintock 52f1ac8b2184	sukirthalakshmanan/loginpage:latest	Exited	9091:80		
<input type="checkbox"/>	jovial_taussig 77b497bd0213	-	Exited	9091:80		
<input type="checkbox"/>	friendly_brown 8387f5eb200f	sukirthalakshmanan/demo:latest	Exited	9090:80		
<input type="checkbox"/>	distracted_lederberg 3ab1aa602299	sukirthalakshmanan/demo:latest	Exited	9090:80		
<input type="checkbox"/>	ecstatic_shtern bcff5cb1c45a	docker/getting-started:latest	Exited (255)	81:80		

After creating SQLServer database on Azure



The screenshot shows the Azure portal interface for a newly created SQL database named 'customer (sukilax/customer)'. The left sidebar contains navigation options: Overview, Activity log, Tags, Diagnose and solve problems, Getting started, Query editor (preview), Power Platform, Power BI, Power Apps, Power Automate, Settings, Compute + storage, Connection strings, Properties, Locks, Data management, and Replicas. The main area displays the 'Overview' page for the database, including a search bar, action buttons (Copy, Restore, Export, Set server firewall, Delete, Connect with..., Feedback), and a message: 'This database was just created. Do you need any help getting started?'. The 'Essentials' section provides key information about the database, and the 'Compute utilization' and 'App CPU billed' sections show performance metrics.

customer (sukilax/customer)
SQL database

Search resources, services, and docs (G+)

Home >

Copy Restore Export Set server firewall Delete Connect with... Feedback

This database was just created. Do you need any help getting started?

Essentials JSON View

Resource group (move): TestResourceGroup

Status: Online

Location: East US

Subscription (move): Azure Pass - Sponsorship

Subscription ID: 27a00db2-91ec-419f-8bb5-77fecbbaa402

Tags (edit): Click here to add tags

Server name: sukilax.database.windows.net

Connection strings: Show database connection strings

Pricing tier: General Purpose - Serverless: Standard-series (Gen5) 1 vCore

Auto-pause delay: 1 hour

Earliest restore point: 2022-11-02 13:47 UTC

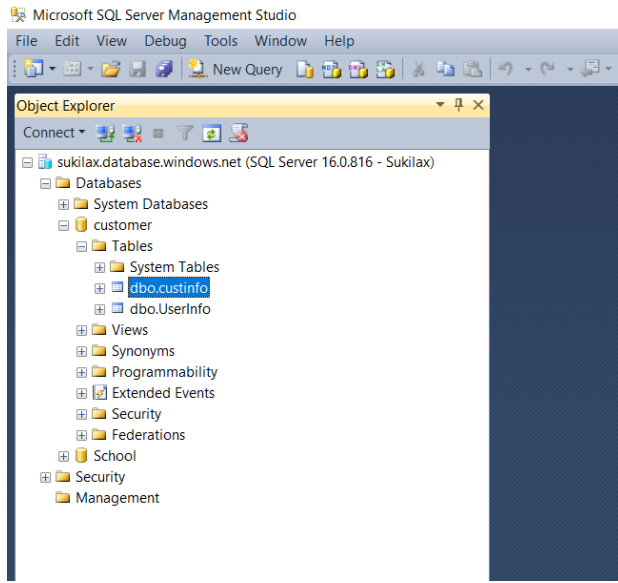
Show data for last: 1 hour 24 hours 7 days

Aggregation type: Max

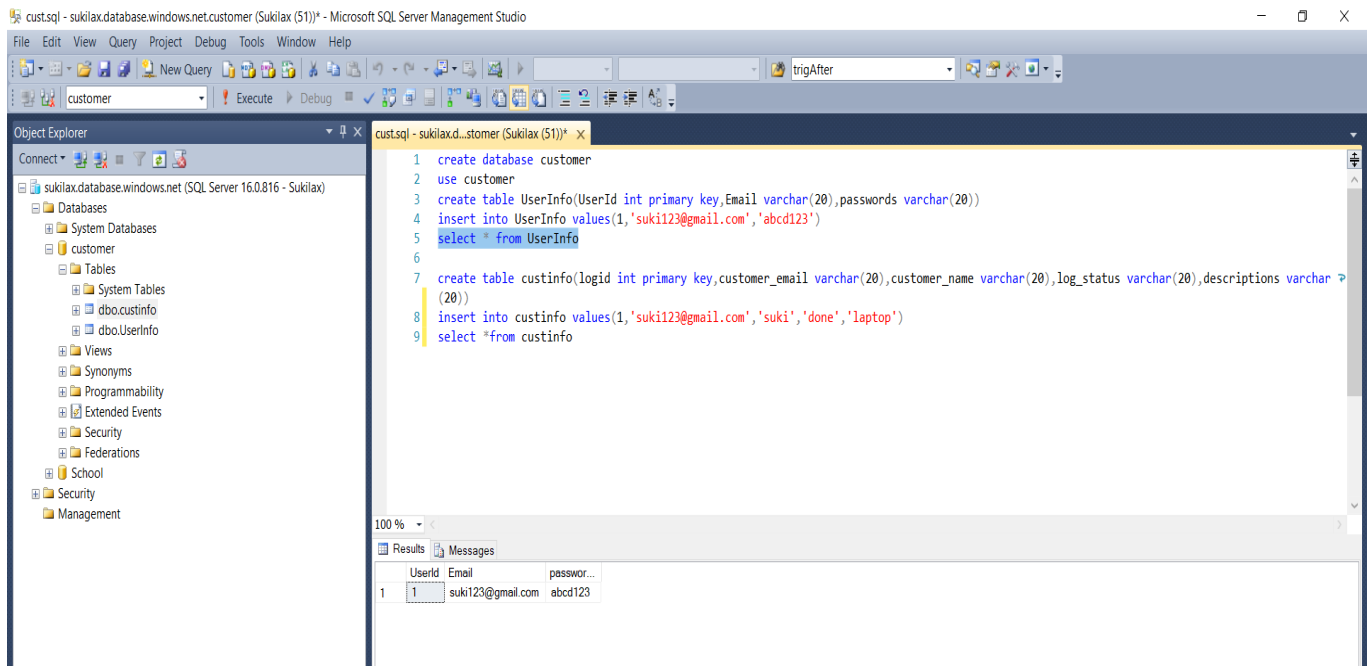
Compute utilization

App CPU billed

Azure database in Local machine:



UserInfo:



Custinfo:

Microsoft SQL Server Management Studio interface showing a query execution for a database named 'customer'.

Object Explorer:

- Connect
- sukilax.database.windows.net (SQL Server 16.0.816 - Sukilax)
 - Databases
 - System Databases
 - customer
 - Tables
 - System Tables
 - dbo.custinfo
 - dbo.UserInfo
 - Views
 - Synonyms
 - Programmability
 - Extended Events
 - Security
 - Federations
 - School
 - Security
 - Management

Query Window (cust.sql - sukilax.d...stomer (Sukilax (51))):

```
1 create database customer
2 use customer
3 create table UserInfo(UserId int primary key,Email varchar(20),passwords varchar(20))
4 insert into UserInfo values(1,'suki123@gmail.com','abcd123')
5 select * from UserInfo
6
7 create table custinfo(logid int primary key,customer_email varchar(20),customer_name varchar(20),log_status varchar(20),descriptions varchar
(20))
8 insert into custinfo values(1,'suki123@gmail.com','suki','done','laptop')
9 select *from custinfo
```

Results:

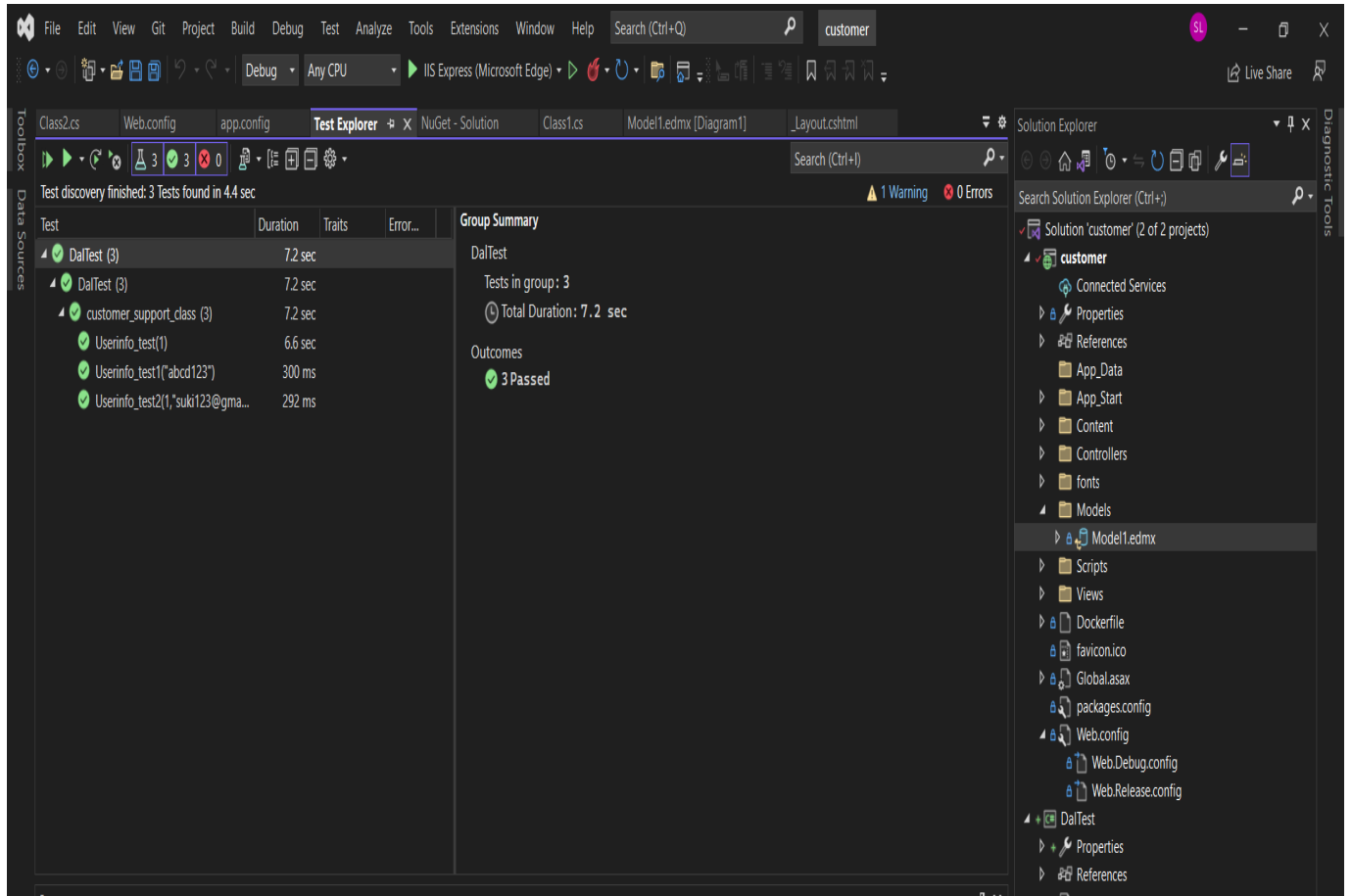
	logid	customer_email	customer_na...	log_stat...	descriptio...
1	1	suki123@gmail.com	suki	done	laptop
2	10	suki@gmail.com	SukirthaL	Pass	connect

Status Bar: Query executed successfully. sukilax.database.windows.ne... Sukilax (51) customer 00:00:00 2 rows

Testing All Test cases:

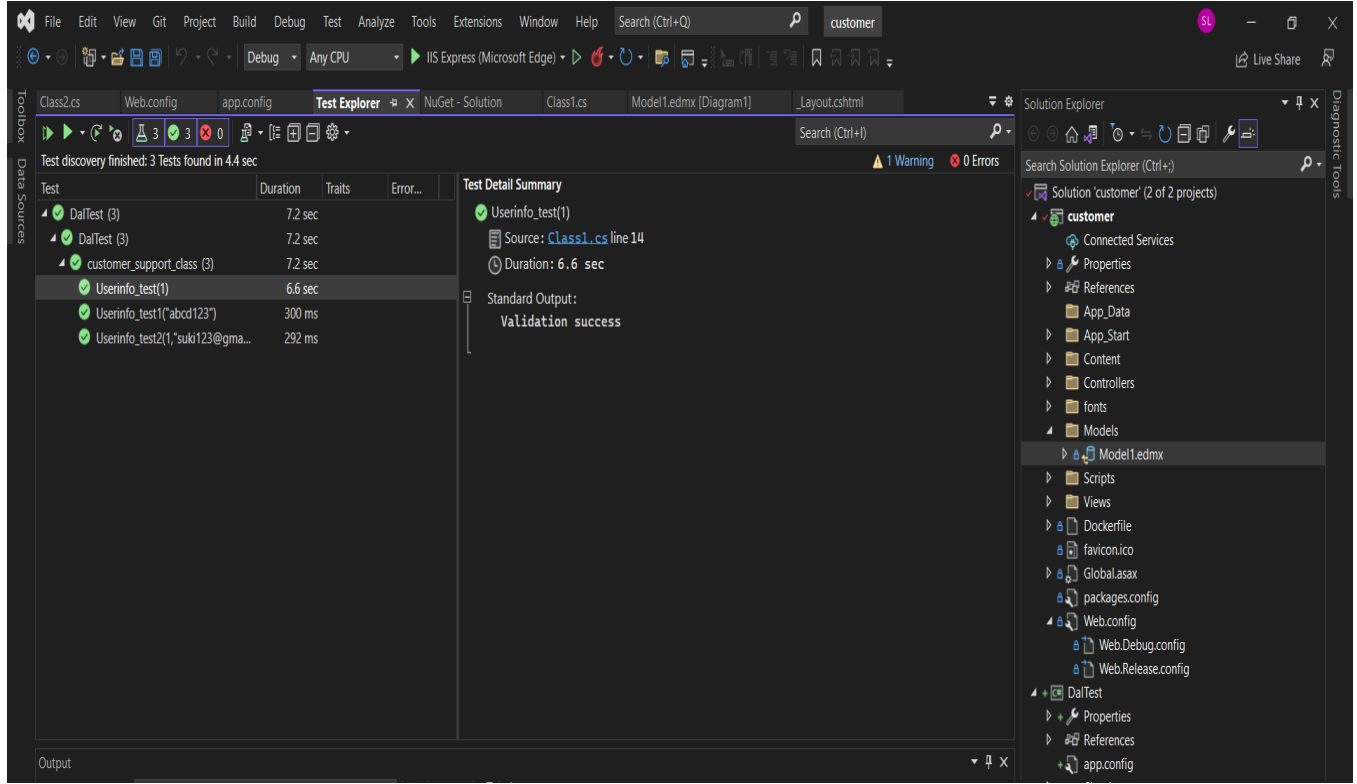
UserInfo and CustInfo Test cases:

All test cases passed here.



UserInfo_test(1):

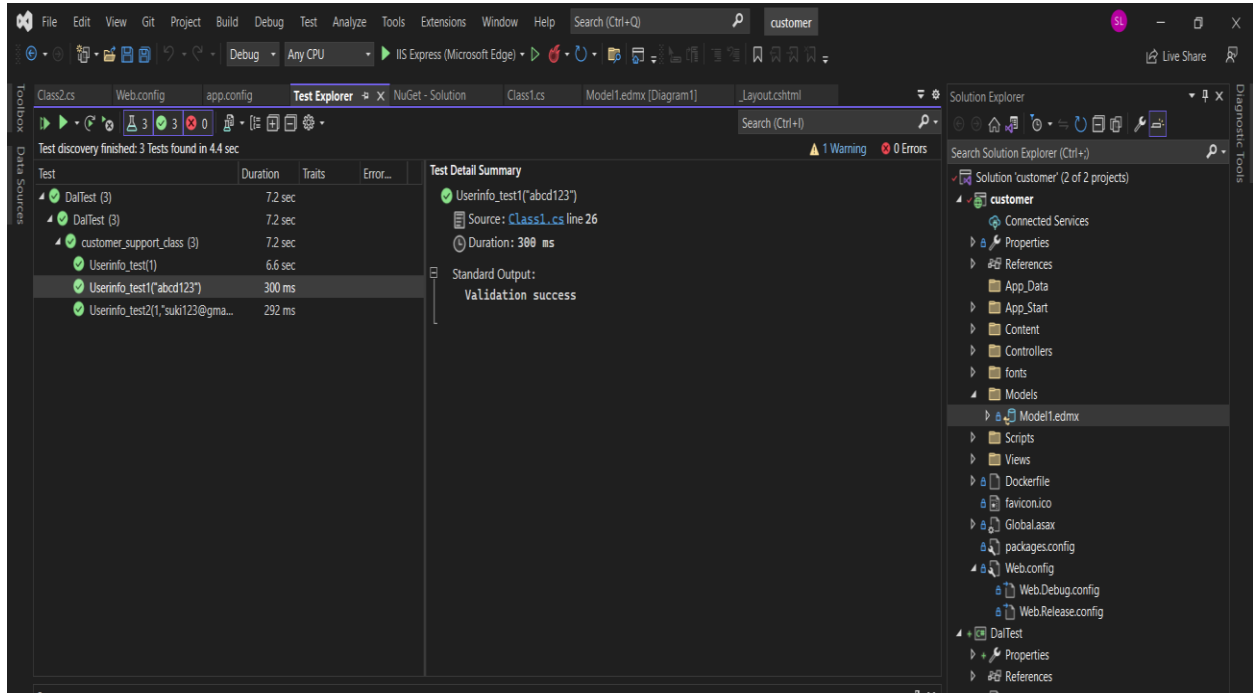
In CustInfo On Testing the Log id:



Checking Password in login page:

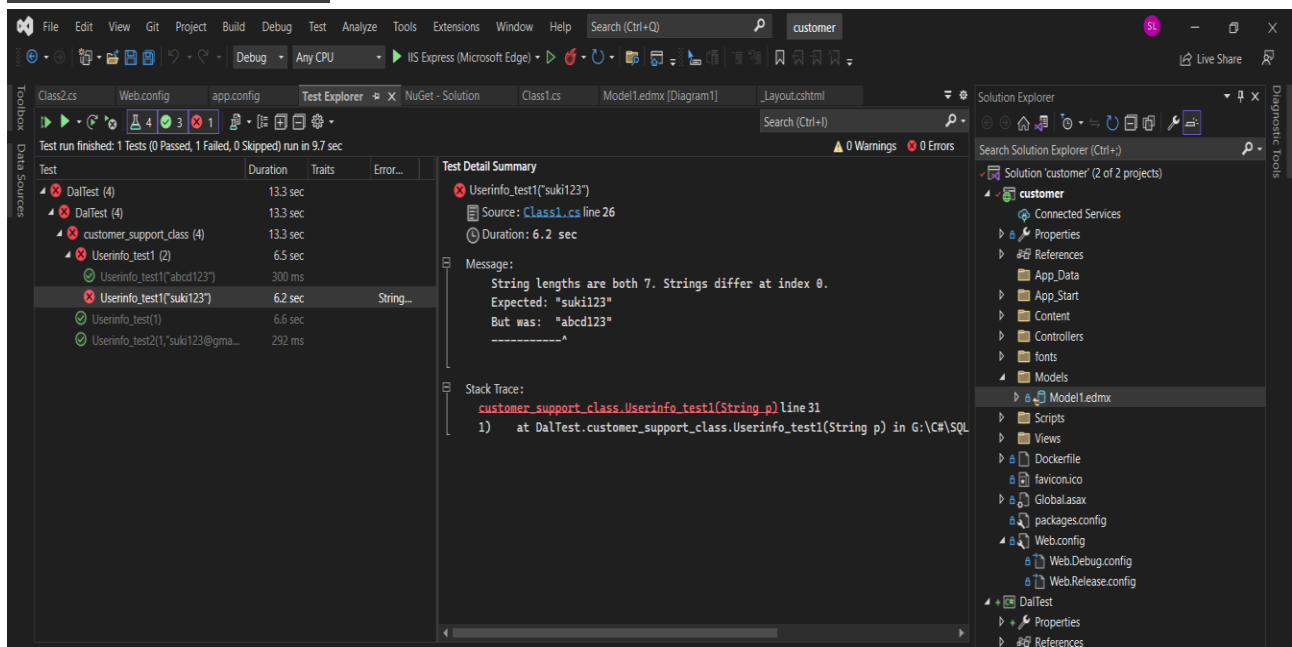
Test case Passed:

Giving the same password as in Azure database so that Testcase passed.

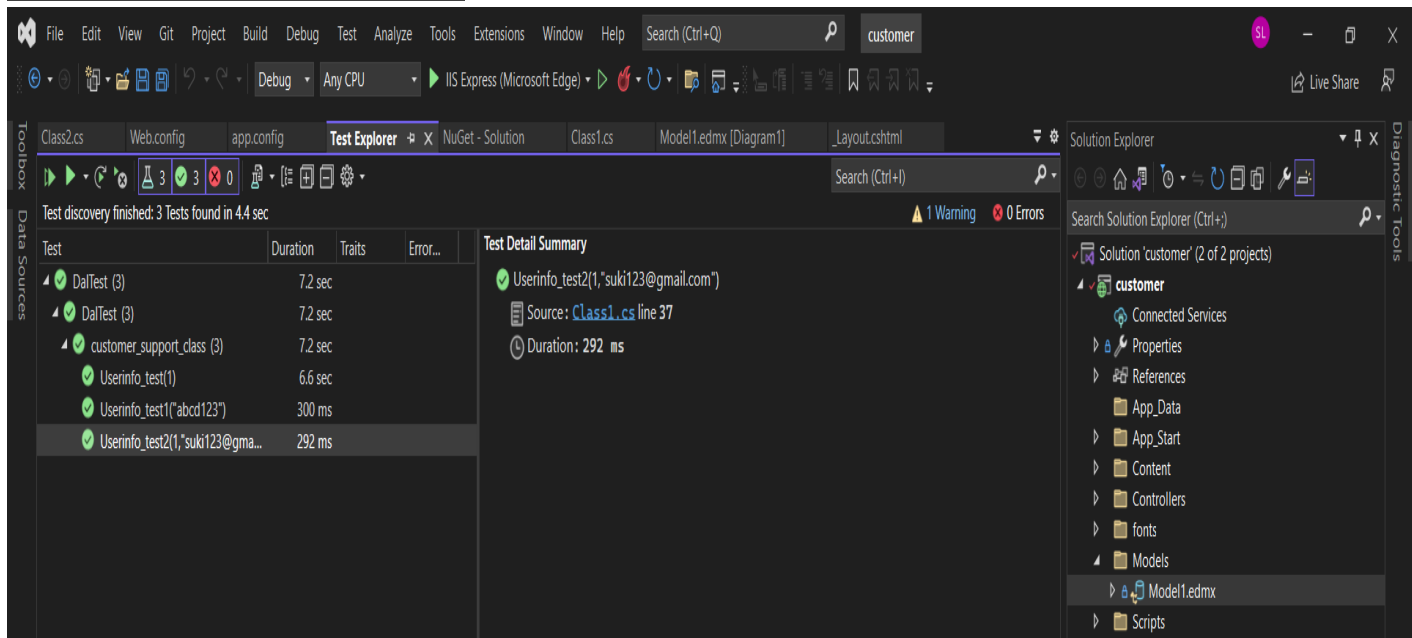


Test case Failed:

Incorrect password:

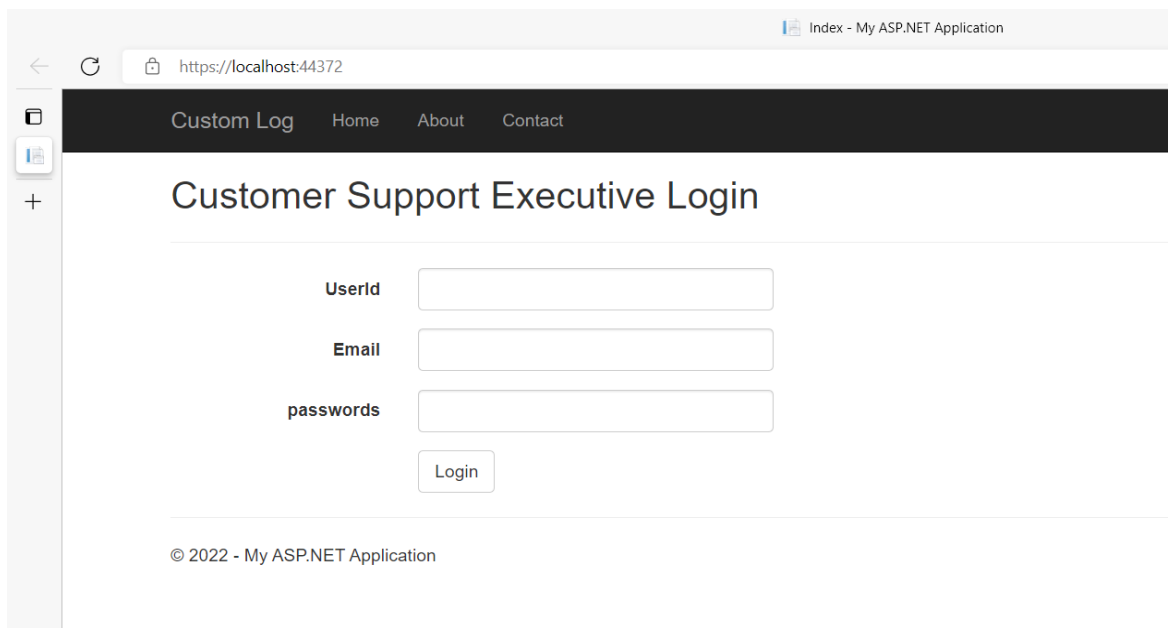


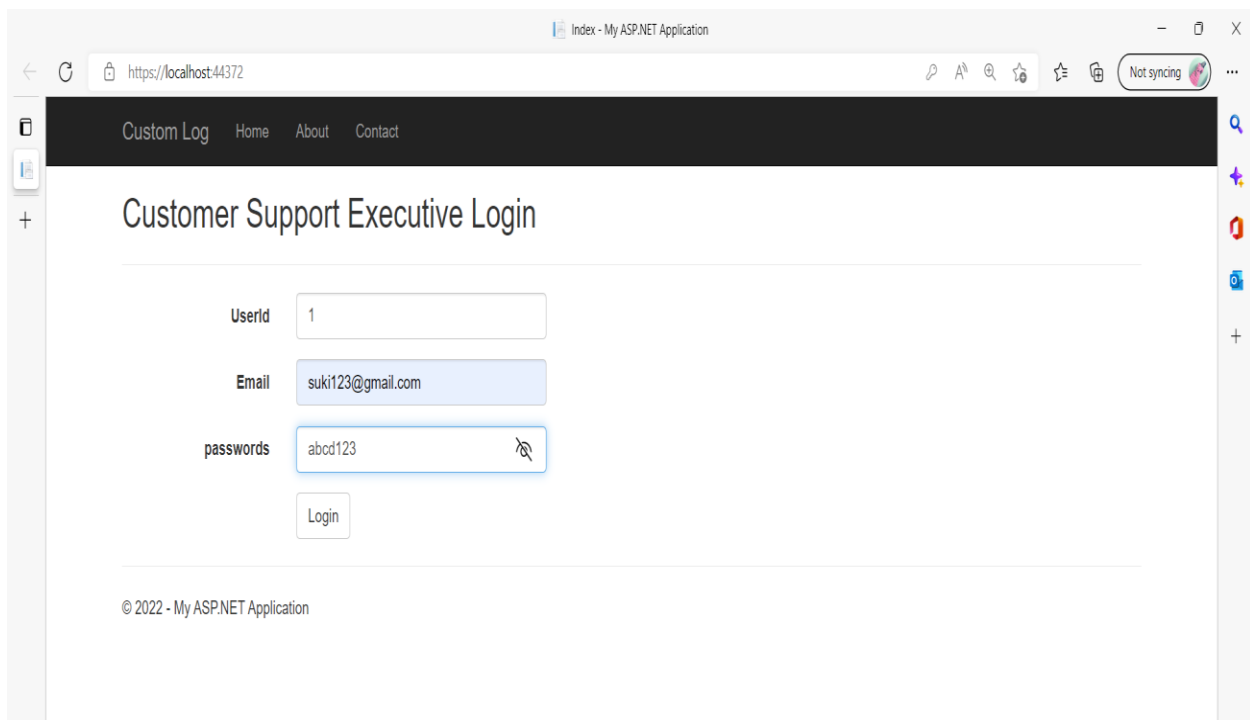
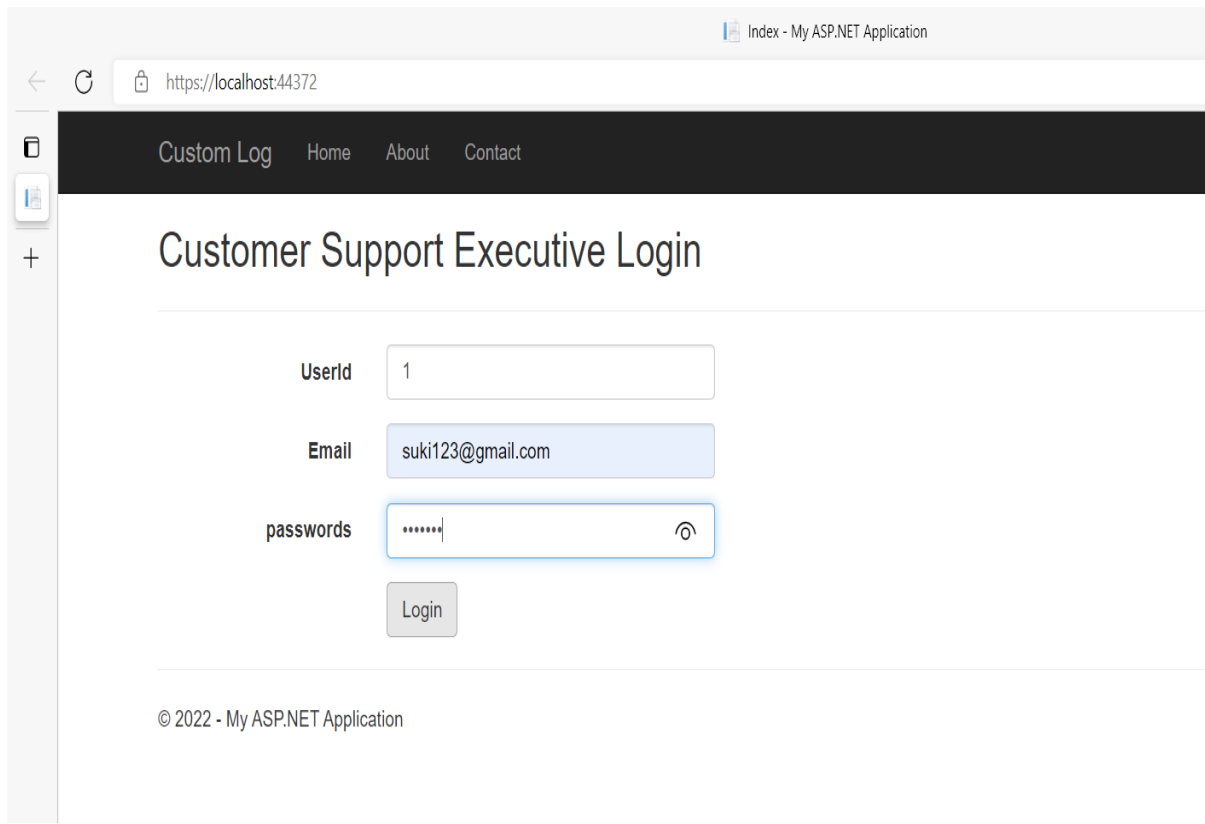
Checking Email and UserId:



After executing MVC application

a. Customer executive login page:





Login:

Index - My ASP.NET Application

https://localhost:44372

Custom Log Home About Contact

Customer Support Executive Login

Userid

Email

passwords

Login

© 2022 - My ASP.NET Application

Dashboard:

Dashboard - My ASP.NET Application

https://localhost:44372/Home/Dashboard

Custom Log Home About Contact

Dashboard

custinfo

logid

customer_email

customer_name

log_status

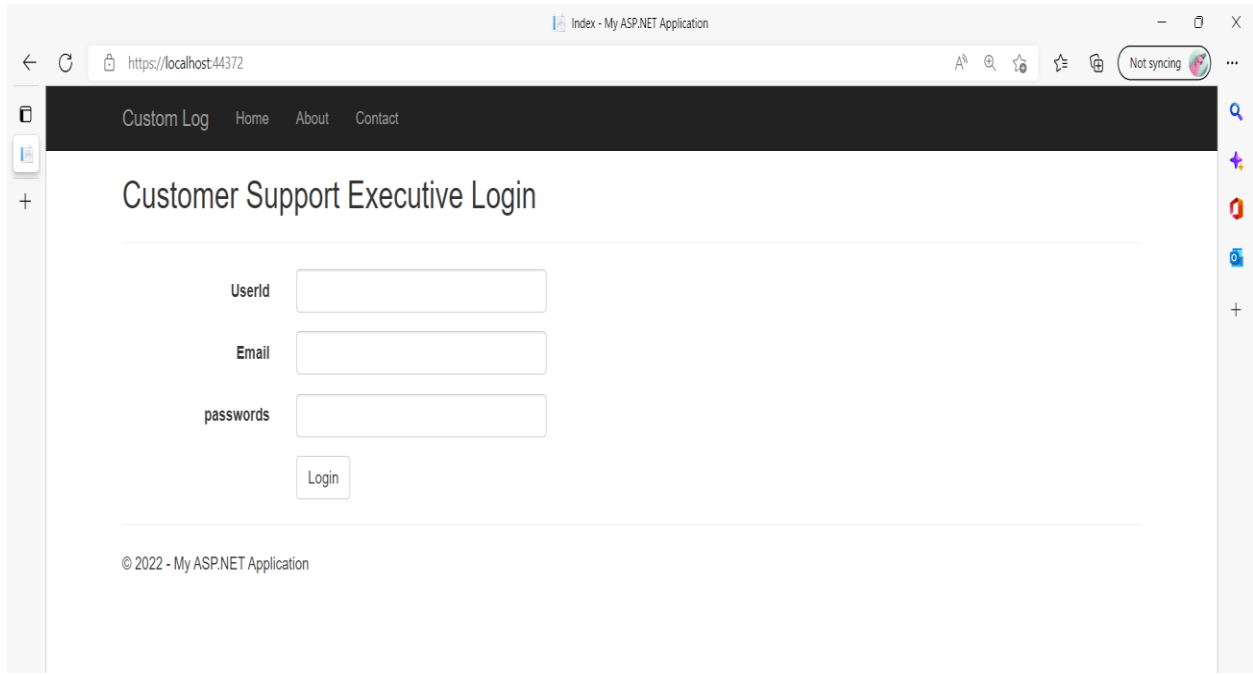
descriptions

Create

[Back to List](#)

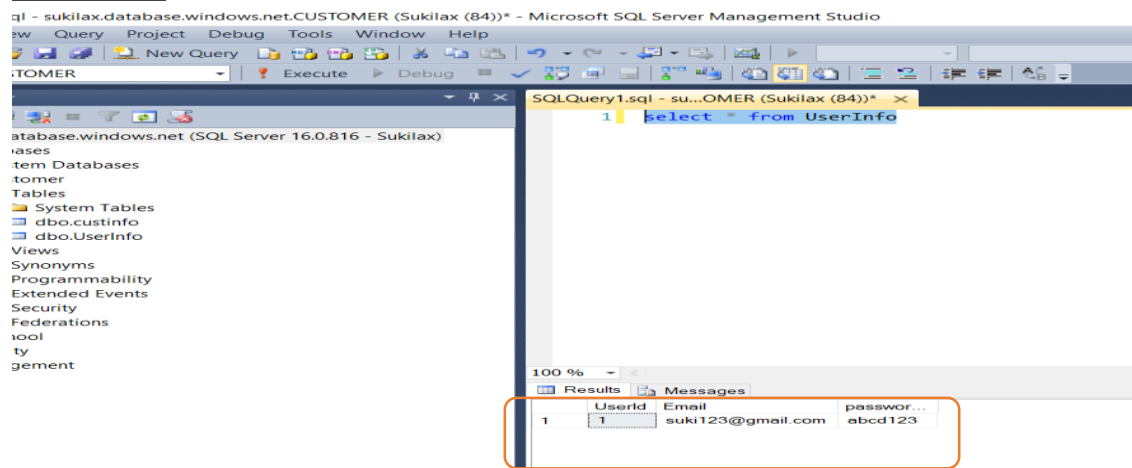
© 2022 - My ASP.NET Application

After Registering complaint successfully Redirects to Login page:



Verifying results into the database by connecting to SQL Server Management Studio (SSMS):

UserInfo:



Customer Support Info:

SQLQuery1.sql - sukilax.database.windows.net.CUSTOMER (Sukilax (84))* - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

CUSTOMER Execute Debug

Object Explorer

Connect

sukilax.database.windows.net (SQL Server 16.0.816 - Sukilax)

Databases

System Databases

customer

Tables

System Tables

dbo.custinfo

dbo.UserInfo

Views

Synonyms

Programmability

Extended Events

Security

Federations

School

Security

Management

SQLQuery1.sql - su...OMER (Sukilax (84))*

```
1 select * from custinfo
```

100 %

Results Messages

	logid	customer_email	customer_name	log_stat...	descriptio...
1	1	suki123@gmail.com	suki	done	laptop
2	7	suki3@gmail.com	SukirthaL	Pass	lapapp
3	10	suki@gmail.com	SukirthaL	Pass	connect
4	115	suki@gmail.com	Vasukidevi M S V	Pass	Mobile

Model:

File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Search (Ctrl+Q)

customer

Debug Any CPU IIS Express (Microsoft Edge)

Class1.cs Web.config app.config _Layout.cshtml Dashboard.cshtml Index.cshtml HomeController.cs*

Model1.edmx [Diagram1]

Solution Explorer

Search Solution Explorer (Ctrl+)

Solution 'customer' (2 of 2 projects)

customer

Connected Services

Properties

References

App_Data

App_Start

Content

Controllers

fonts

Models

Model1.edmx

Model1.Context.tt

Model1.Context.cs

Model1.Designer.cs

Model1.edmx.diagram

Model1.tt

custinfo.cs

Model1.cs

Userinfo.cs

Scripts

Views

Dockerfile

faviconico

Global.asax

Data Sources

Toolbox

custinfo

Properties

logid

customer_email

customer_name

log_status

descriptions

Navigation Properties

Userinfo

Properties

Userid

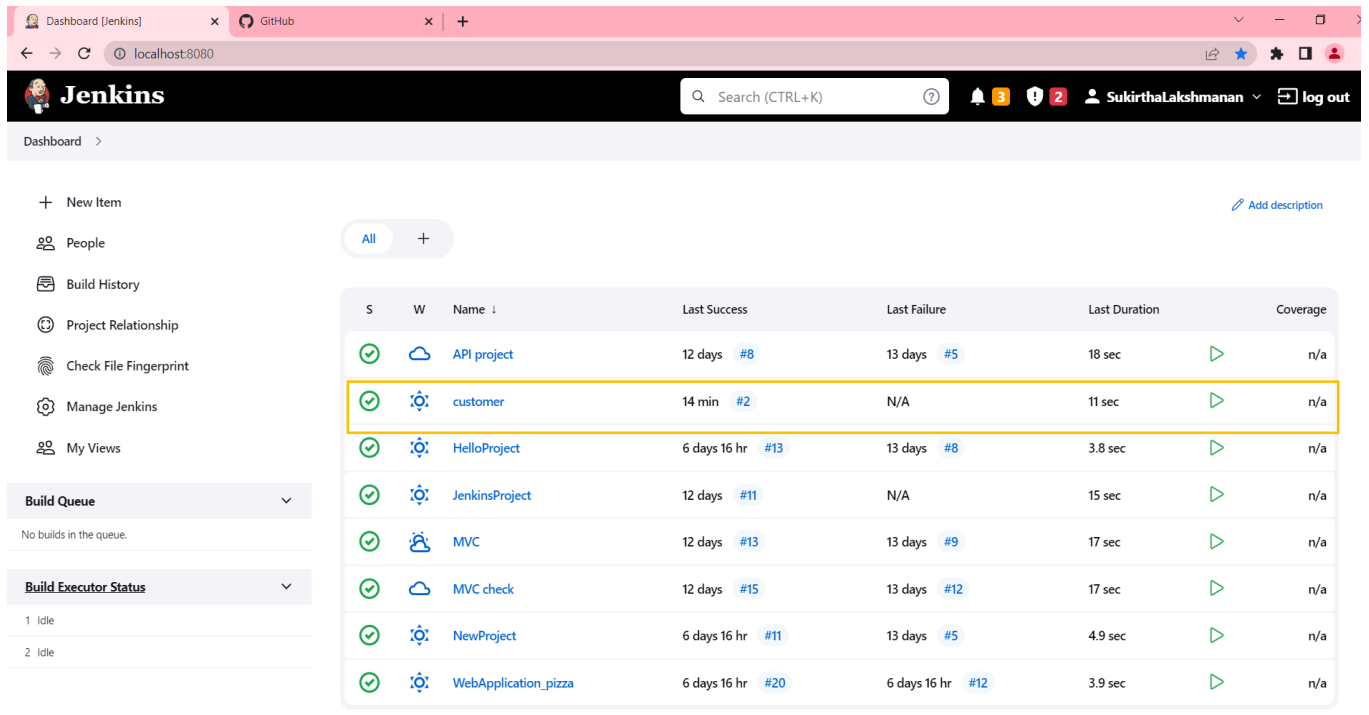
Email

passwords

Navigation Properties

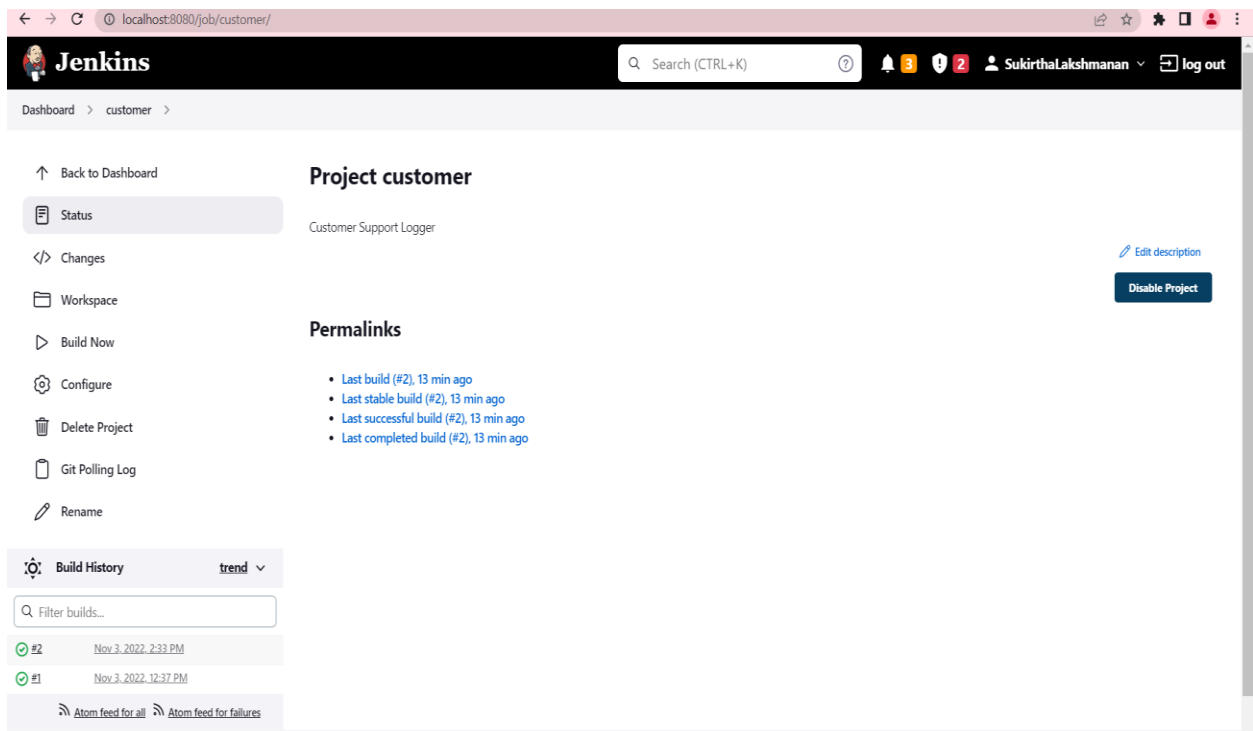
Output

Jenkins:



The screenshot shows the Jenkins Dashboard interface. The top navigation bar includes the Jenkins logo, a search bar, and user information (SukirthaLakshmanan). The left sidebar contains a list of navigation items: New Item, People, Build History, Project Relationship, Check File Fingerprint, Manage Jenkins, and My Views. The main content area displays a table of builds with columns for Status (S), Workspace (W), Name, Last Success, Last Failure, Last Duration, and Coverage. The 'customer' build is highlighted with a yellow border. Below the table, there are sections for 'Build Queue' (showing no builds) and 'Build Executor Status' (showing two idle executors).

S	W	Name	Last Success	Last Failure	Last Duration	Coverage
✓	☁	API project	12 days #8	13 days #5	18 sec	n/a
✓	⚙	customer	14 min #2	N/A	11 sec	n/a
✓	⚙	HelloProject	6 days 16 hr #13	13 days #8	3.8 sec	n/a
✓	⚙	JenkinsProject	12 days #11	N/A	15 sec	n/a
✓	👤	MVC	12 days #13	13 days #9	17 sec	n/a
✓	☁	MVC check	12 days #15	13 days #12	17 sec	n/a
✓	⚙	NewProject	6 days 16 hr #11	13 days #5	4.9 sec	n/a
✓	⚙	WebApplication_pizza	6 days 16 hr #20	6 days 16 hr #12	3.9 sec	n/a



The screenshot shows the Jenkins Project View for the 'customer' project. The top navigation bar includes the Jenkins logo, a search bar, and user information (SukirthaLakshmanan). The left sidebar contains a list of navigation items: Back to Dashboard, Status, Changes, Workspace, Build Now, Configure, Delete Project, Git Polling Log, and Rename. The main content area displays the project name 'Project customer' and a 'Customer Support Logger' section. Below this, there is a 'Permalinks' section with a list of links to various build states. At the bottom, there is a 'Build History' section with a table of builds.

Project customer

Customer Support Logger

Permalinks

- Last build (#2), 13 min ago
- Last stable build (#2), 13 min ago
- Last successful build (#2), 13 min ago
- Last completed build (#2), 13 min ago

Build History

Build	Time
#2	Nov 3, 2022, 2:33 PM
#1	Nov 3, 2022, 12:37 PM

Console Output:

customer #2 Console [Jenkins] x GitHub x +

localhost:8080/job/customer/2/console

Jenkins

Search (CTRL+K)

3 1 2 SukirthaLakshmanan log out

Dashboard > customer > #2

↑ Back to Project

📄 Status

</> Changes

📄 Console Output

📄 View as plain text

✎ Edit Build Information

🗑 Delete build '#2'

🔗 Git Build Data

← Previous Build

✓ Console Output

Started by user SukirthaLakshmanan
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\jenkins\workspace\customer
The recommended git tool is: NONE
using credential 6eb43da9-1218-42b0-b3f5-d34a5b28558f
> git.exe rev-parse --resolve-git-dir C:\ProgramData\Jenkins\jenkins\workspace\customer\.git # timeout=10
Fetching changes from the remote Git repository
> git.exe config remote.origin.url https://github.com/Sukirthalakshmanan1/customer # timeout=10
Fetching upstream changes from https://github.com/Sukirthalakshmanan1/customer
> git.exe --version # timeout=10
> git --version # 'git version 2.37.2.windows.2'
using GIT_ASKPASS to set credentials This is my project1
> git.exe fetch --tags --force --progress -- https://github.com/Sukirthalakshmanan1/customer +refs/heads/*:refs/remotes/origin/* # timeout=10
> git.exe rev-parse "refs/remotes/origin/master^(commit)" # timeout=10
Checking out Revision 1207f446fdeeb0f493b13b85753dcdaf02a22df (refs/remotes/origin/master)
> git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f 1207f446fdeeb0f493b13b85753dcdaf02a22df # timeout=10
Commit message: "commit"
> git.exe rev-list --no-walk 20cb3028778136ecafb5bede628133f1888427d # timeout=10
Path To MSBuild.exe: C:\Program Files\Microsoft Visual Studio\2022\Community\MSBuild\Current\Bin\msbuild.exe
Executing the command cmd.exe /C " chcp 1252 & "C:\Program Files\Microsoft Visual Studio\2022\Community\MSBuild\Current\Bin\msbuild.exe"
C:\ProgramData\Jenkins\jenkins\workspace\customer " && exit %ERRORLEVEL%" from C:\ProgramData\Jenkins\jenkins\workspace\customer
[customer] \$ cmd.exe /C " chcp 1252 & "C:\Program Files\Microsoft Visual Studio\2022\Community\MSBuild\Current\Bin\msbuild.exe"
C:\ProgramData\Jenkins\jenkins\workspace\customer " && exit %ERRORLEVEL%"

customer #2 Console [Jenkins] x GitHub x +

localhost:8080/job/customer/2/console

Jenkins

Search (CTRL+K)

3 1 2 SukirthaLakshmanan log out

Dashboard > customer > #2

↑ Back to Project

📄 Status

</> Changes

📄 Console Output

📄 View as plain text

✎ Edit Build Information

🗑 Delete build '#2'

🔗 Git Build Data

← Previous Build

✓ Console Output

Copying file from "C:\ProgramData\Jenkins\jenkins\workspace\customer\packages\WUnit3TestAdapter.4.3.0\build\net35\nunit.engine.api.dll" to
"C:\ProgramData\Jenkins\jenkins\workspace\customer\DalTest\bin\Debug\nunit.engine.api.dll".
Copying file from "C:\ProgramData\Jenkins\jenkins\workspace\customer\packages\WUnit3TestAdapter.4.3.0\build\net35\WUnit3.TestAdapter.dll" to
"C:\ProgramData\Jenkins\jenkins\workspace\customer\DalTest\bin\Debug\WUnit3.TestAdapter.dll".
Copying file from "C:\ProgramData\Jenkins\jenkins\workspace\customer\packages\WUnit3TestAdapter.4.3.0\build\net35\nunit.engine.core.dll" to
"C:\ProgramData\Jenkins\jenkins\workspace\customer\DalTest\bin\Debug\nunit.engine.core.dll".
Copying file from "C:\ProgramData\Jenkins\jenkins\workspace\customer\packages\WUnit3TestAdapter.4.3.0\build\net35\testcentric.engine.metadata.dll" to
"C:\ProgramData\Jenkins\jenkins\workspace\customer\DalTest\bin\Debug\testcentric.engine.metadata.dll".
_CopyAppConfigFile:
Copying file from "C:\ProgramData\Jenkins\jenkins\workspace\customer\DalTest\app.config" to
"C:\ProgramData\Jenkins\jenkins\workspace\customer\DalTest\bin\Debug\DalTest.dll.config".
CopyFilesToOutputDirectory:
Copying file from "C:\ProgramData\Jenkins\jenkins\workspace\customer\DalTest\obj\Debug\DalTest.dll" to
"C:\ProgramData\Jenkins\jenkins\workspace\customer\DalTest\bin\Debug\DalTest.dll".
DalTest -> C:\ProgramData\Jenkins\jenkins\workspace\customer\DalTest\bin\Debug\DalTest.dll
Copying file from "C:\ProgramData\Jenkins\jenkins\workspace\customer\DalTest\obj\Debug\DalTest.pdb" to
"C:\ProgramData\Jenkins\jenkins\workspace\customer\DalTest\bin\Debug\DalTest.pdb".
Done Building Project "C:\ProgramData\Jenkins\jenkins\workspace\customer\DalTest\DalTest.csproj" (default targets).
Done Building Project "C:\ProgramData\Jenkins\jenkins\workspace\customer\customer.sln" (default targets).

Build succeeded.
0 Warning(s)
0 Error(s)

Time Elapsed 00:00:04.08
Finished: SUCCESS

Build 2:

customer #2 [Jenkins] x GitHub x +

localhost:8080/job/customer/lastCompletedBuild/

Search (CTRL+K) ? 3 1 2 SukirthaLakshmanan log out

Dashboard > customer > #2

↑ Back to Project

Status

</> Changes

Console Output

Edit Build Information

Delete build '#2'

Git Build Data

← Previous Build

✓ Build #2 (Nov 3, 2022, 2:33:10 PM)

Keep this build forever

Started 13 min ago
Took 11 sec

Add description

</> Changes

1. commit (details / githubweb)

Started by user SukirthaLakshmanan

Revision: 1207f446fdeeb0f493b13b85753dcda1f02a22df
Repository: https://github.com/Sukirthalakshmanan1/customer

• refs/remotes/origin/master

Poll SCM:

Sukirthalakshmanan1/customer x WhatsApp x customer Config [Jenkins] x +

localhost:8080/job/customer/configure

Dashboard > customer >

Configuration

General

Source Code Management

Build Triggers

Build Environment

Build Steps

Post-build Actions

Build Triggers

☐ Trigger builds remotely (e.g., from scripts) ?

☐ Build after other projects are built ?

☐ Build periodically ?

☐ GitHub hook trigger for GITScm polling ?

☒ Poll SCM ?

Schedule ?

H/60 * * * *

Would last have run at Thursday, November 3, 2022 at 3:26:18 PM India Standard Time; would next run at Thursday, November 3, 2022 at 4:26:18 PM India Standard Time.

☐ Ignore post-commit hooks ?

Build Environment

Save Apply

Build 3:

The screenshot shows the Jenkins web interface for a project named 'customer'. The browser address bar shows 'localhost:8080/job/customer/'. The interface includes a sidebar with navigation options: 'Back to Dashboard', 'Status' (selected), 'Changes', 'Workspace', 'Build Now', 'Configure', 'Delete Project', 'Git Polling Log', and 'Rename'. The main content area displays 'Project customer' with a description 'Customer Support Logger' and an 'Edit description' link. Below this, there are 'Permalinks' for the last build, stable build, successful build, and completed build, all indicating they occurred 58 minutes ago. At the bottom, the 'Build History' section shows a list of builds: #3 (Nov 3, 2022, 4:26 PM), #2 (Nov 3, 2022, 2:33 PM), and #1 (Nov 3, 2022, 12:37 PM). There are also links for 'Atom feed for all' and 'Atom feed for failures'.

customer [jenkins] x +

localhost:8080/job/customer/

Dashboard > customer >

↑ Back to Dashboard

📄 Status

🔍 Changes

📁 Workspace

▶ Build Now

⚙️ Configure

🗑️ Delete Project

📄 Git Polling Log

✎ Rename

Project customer

Customer Support Logger

[Edit description](#)

Disable Project

Permalinks

- [Last build \(#3\), 58 min ago](#)
- [Last stable build \(#3\), 58 min ago](#)
- [Last successful build \(#3\), 58 min ago](#)
- [Last completed build \(#3\), 58 min ago](#)

Build History trend ▾

🔍 Filter builds...

🟢 #3	Nov 3, 2022, 4:26 PM
🟢 #2	Nov 3, 2022, 2:33 PM
🟢 #1	Nov 3, 2022, 12:37 PM

📄 Atom feed for all 📄 Atom feed for failures

Conclusion:

Thus the application is developed successfully.