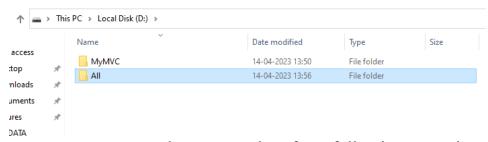
INDEX

Sr. No.	Practical	Date	Sign.
1.	Building ASP.NET Core MVC Application		
2.	Building ASP. NET Core REST API		
3.	Working with docker, docker commands, docker images & Containers.		
4.	Installing s/w packages on docker.		
5.	working with docker volumes & networks.		
6.	working with CircleCI for Continuous integration		
7.	Creating Backing service with ASP.NET 2.0 core.		

PRACTICAL NO.: 01

Aim:- Building ASP.NET Core MVC Application

- 1) Install .Net Core Sdk
- 2) create folder MyMVC folder in D: drive or any other drive



3) open command prompt and perform following operations Command: to create mvc project dotnet new mvc --auth none

```
C:\Users\HP> D:

D:\>cd MyMVC

D:\MyMVC>dotnet new mvc --auth none

The template "ASP.NET Core Web App (Model-View-Controller)" was created s

This template contains technologies from parties other than Microsoft, se

Processing post-creation actions...

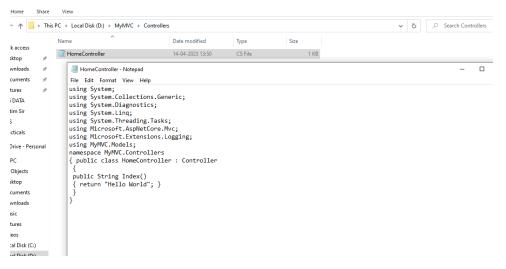
Restoring D:\MyMVC\MyMVC.csproj:

Determining projects to restore...

Restored D:\MyMVC\MyMVC.csproj (in 176 ms).

Restore succeeded.
```

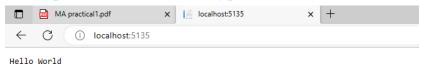
4) Go to controllers folder and modify HomeController.cs file to match following:



5) Run the project

```
D:\MyMVC>dotnet run
Building...
info: Microsoft.Hosting.Lifetime[14]
    Now listening on: http://localhost:5135
info: Microsoft.Hosting.Lifetime[0]
    Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
    Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
    Content root path: D:\MyMVC
info: Microsoft.Hosting.Lifetime[0]
    Application is shutting down...
```

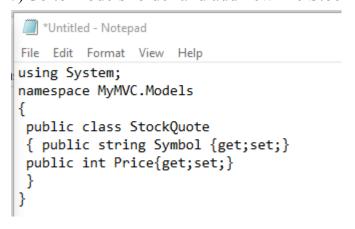
Now open browser and and type URL: localhost:5135

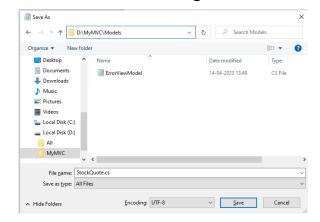


6) Now go back to command prompt and stop running project using CTRL+C

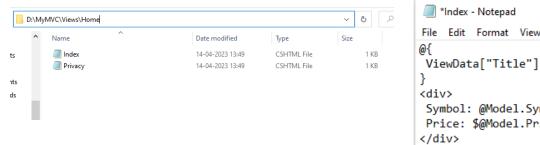
```
D:\mymvc>dotnet run
Building...
info: Microsoft.Hosting.Lifetime[14]
    Now listening on: http://localhost:5049
info: Microsoft.Hosting.Lifetime[0]
    Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
    Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
    Content root path: D:\mymvc
warn: Microsoft.AspNetCore.HttpsPolicy.HttpsRedirectionMiddleware[3]
    Failed to determine the https port for redirect.
```

7) Go to models folder and add new file StockQuote.cs to it with following content





8) Now Add View to folder then home folder in it and modify index.cshtml file to match following



*Index - Notepad
File Edit Format View Help

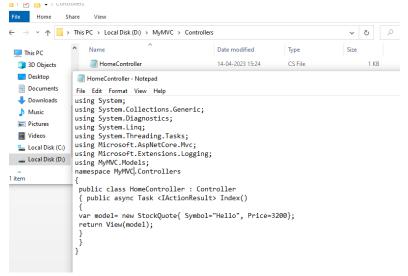
@{
 ViewData["Title"] = "Home Page";
}

<div>
 Symbol: @Model.Symbol

 Price: \$@Model.Price

</div>

9) Now modify HomeController.cs file to match following:



10) Now run the project using

```
D:\MyMVC>dotnet run

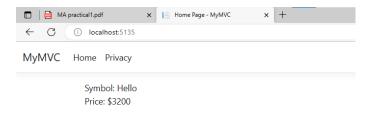
Building...
D:\MyMVC\Models\StockQuote.cs(5,18): warning CS8618: Non-nullable perty as nullable. [D:\MyMVC\MyMVC.csproj]
D:\MyMVC\Controllers\HomeController.cs(12,38): warning CS1998: This r to await non-blocking API calls, or 'await Task.Run(...)' to do info: Microsoft.Hosting.Lifetime[14]

Now listening on: http://localhost:5135
info: Microsoft.Hosting.Lifetime[0]

Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]

Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
Content root path: D:\MyMVC
```

11) Now go back to browser and refresh to get modified view response



PRACTICAL NO.: 02

Aim:- Building ASP. NET Core REST API

- 1. Download and install dotnet
- 2. Check everything installed correctly

Create your web API

1. Open two command prompts Command prompt 1: Command: dotnet new webapi -o Glossary

```
D:\MyMVC>cd..

D:\Adotnet new webapi -o Glossary
The template "ASP.NET Core Web API" was created successfully.

Processing post-creation actions...
Restoring D:\Glossary\Glossary.csproj:
    Determining projects to restore...
Restored D:\Glossary\Glossary.csproj (in 435 ms).

Restore succeeded.

D:\>
```

```
D:\>cd Glossary

D:\Glossary>dotnet run

Building...
info: Microsoft.Hosting.Lifetime[14]
    Now listening on: http://localhost:5176

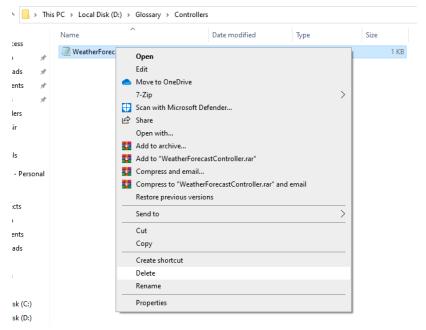
info: Microsoft.Hosting.Lifetime[0]
    Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
    Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
    Content root path: D:\Glossary
```

2. Command Prompt 2: (try running ready made weatherforecast class for testing) Command: curl --insecure https://localhost:5001/weatherforecast

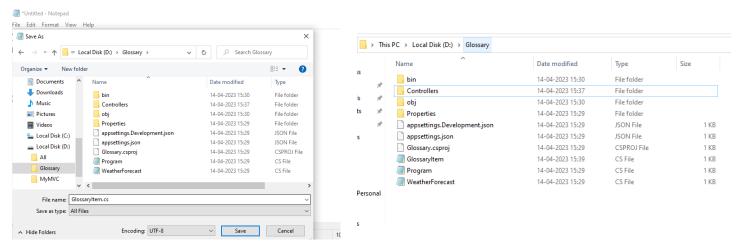
```
D:\>curl --insecure http://localhost:5176/weatherforecast
[{"date":"2023-04-15","temperatureC":-11,"temperatureF":13,"summary":"Balmy"},{"date":"2023-04-16","temperatureF":57,"summary":"Hot"},{"date":"2023-04-17","temperatureC":-11,"temperatureF":13,"summary":"Mare":"2023-04-19","temperatureF":13,"summary":"Mare":"2023-04-19","temperatureC":1,"summary":"Freezing"}]
D:\>_
```

3. Now Change the content: To get started, remove the WeatherForecast.cs file from the root of the project and the WeatherForecastController.cs file from the Controllers folder. Add Following two files

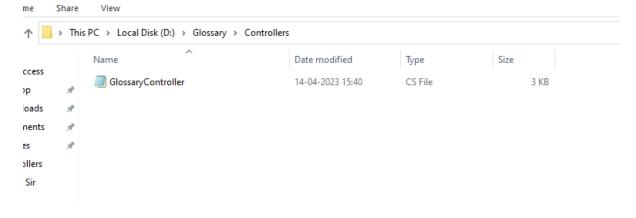




1) D:\Glossary\GlossaryItem.cs (type it in notepad and save as all files)



2) D:\Glossary\Controllers\ GlossaryController.cs (type it in notepad and save as all files)



3. Now stop running previous dotnet run on command prompt 1 using Ctrl+C. and Run it again for new code. On Command prompt1:

```
D:\Glossary>dotnet run
Building...
D:\Glossary\GlossaryItem.cs(6,16): warning CS8618: Non-nullable proper
ing constructor. Consider declaring the property as nullable. [D:\Glos
D:\Glossary\GlossaryItem.cs(7,16): warning CS8618: Non-nullable proper
n exiting constructor. Consider declaring the property as nullable. [D
C)\Glossary\Controllers\GlossaryController.cs(58,58): warning SYSLIB00
ri.EscapeUriString can corrupt the Uri string in some cases. Consider
nents instead.' [D:\Glossary\Glossary.csproj]
info: Microsoft.Hosting.Lifetime[14]
Now listening on: http://localhost:5176
info: Microsoft.Hosting.Lifetime[0]
Application started. Press ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
Content root path: D:\Glossary
```

On Command prompt2:

1) Getting a list of items: Command: curl --insecure http://localhost:5176/api/glossary

```
D:\>curl --insecure http://localhost:5176/api/glossary [{"term":"HTML","definition":"Hypertext Markup Language"},{"term":"MVCpenID","definition":"An open standard for authentication"}]
D:\>_
```

2) Getting a single item Command: curl --insecure ttp://localhost:5176/api/glossary/MVC

```
D:\>curl --insecure http://localhost:5176/api/glossary/MVC {"term":"MVC","definition":"Model View Controller"}
D:\>
```

3) Creating an item Command: curl --insecure -X POST -d "{\"term\": \"MFA\", "definition\":\"An uthentication process.\"}" -H "ContentType:application/json" http://localhost:5176/api/glossary

```
D:\>rurl --inserure -X POST -d "{\"term\": \"MFA\", \"definition\":\"An authentication process.\"}" -H "Content-Type:application/jscn" http://localhost:5176/api/glossan
y
("term":"MFA","dafinition":"An authentication process."}
U:\>
```

4) Update

Item

Command:

curl --insecure -X PUT -d "{\"term\": \"MVC\", \"definition\":\"Modified record of Model View Controller.\"}" -H "Content-Type:application/json" http://localhost:5176/api/glossary

```
D:\>curl --insecure -X PUT -d "{\"term\": \"MVC\", \"definition\":\"Modified record of Model View Controller.\"}" -H "C
ntent-Type:application/json" http://localhost:5176/api/glossary
D:\>curl --insecure http://localhost:5176/api/glossary
[{"term":"HTML","definition":"Hypertext Markup Language"},{"term":"MVC","definition":"Modified record of Model View Con
roller."},{"term":"OpenID","definition":"An open standard for authentication"},{"term":"MFA","definition":"An authentic
tion process."}]
D:\>s_
```

5) Delete Item:

curl --insecure --request DELETE --url http://localhost:5176/api/glossary/openid

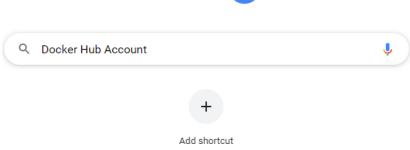
```
D:\>curl --insecure --request DELETE --url http://localhost:5176/api/glossary/openid
D:\>curl --insecure http://localhost:5176/api/glossary
[{"term":"HTML","definition":"Hypertext Markup Language"},{"term":"MVC","definition":"Modified record of Model View Cont roller."},{"term":"MFA","definition":"An authentication process."}]
D:\>_
```

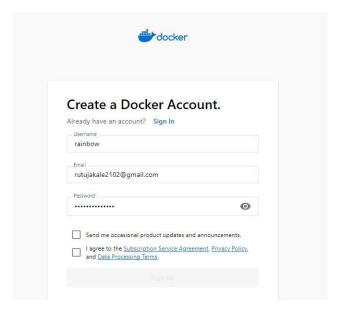
Practical No.:03

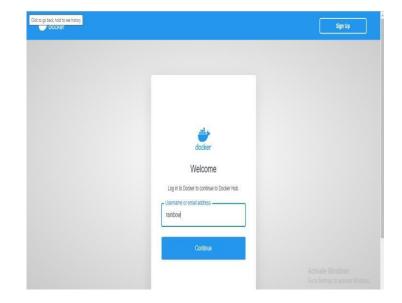
Aim:- Working with docker, docker commands, docker images & Containers.

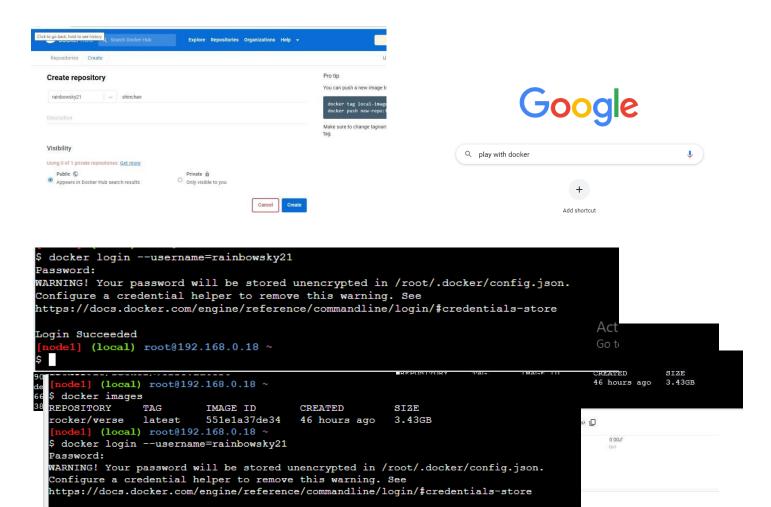
- Step 1: Create Docker Hub Account from https://hub.docker.com/
- Step 2: Navigate to Play with Docker from https://labs.play-with-docker.com/
- Step 3: Click on create Instance and enter the following command.
 - a) docker -v
 - b) docker -version











Login Succeeded

1] (local) root@192.168.0.18 ~

docker tag 551e1a37de34 rainbowsky21/shinchan

```
[node1] (local) root@192.168.0.18 ~
$ docker tag 551e1a37de34 rainbowsky21/shinchan:pract3
```

```
[nodel] (local) root@192.168.0.18 ~

$ docker push rainbowsky21/shinchan:pract3

The push refers to repository [docker.io/rainbowsky21/shinchan]
6c1711f305ff: Pushed
54cc7e366446: Pushed
1e82ee1f79d4: Pushed
e4f6f141a475: Pushed
94644a51ea10: Pushed
99444ef3e8e9: Pushed
fa35739b43d8: Pushed
a0f5608ee4a8: Pushed
a0f5608ee4a8: Pushed
e7484d5519b7: Pushed
202fe64c3ce3: Pushed
pract3: digest: sha256:dlc3e61e20a780eaadd48b8b214b4646dc343a60847577ed1220cc
[nodel] (local) root@192.168.0.18 ~
```

3B) Build your own image file from docker file & push & pull & run the file.

Step 1: Create Docker file.

```
node1] (local) root@192.168.0.8 ~

docker login --username=rainbowsky21
 Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
                                                                                                   docker build .\
Configure a credential helper to remove this warning. See https://docs.docker.com/engine/reference/commandline/login/#credentials-store
 Login Succeeded
[nodel] (local) root@192.168.0.8 ~ $ docker images
Login Succeeded
     le1] (local) root@192.168.0.8 ~
$ docker images
REPOSITORY
                  TAG
                                  IMAGE ID
                                                      CREATED
                                                                         SIZE
rocker/verse latest 551e1a37de34 2 days ago
                                                                         3.43GB
  nodel] (local) root@192.168.0.8 ~ cat > dockerfile <<EOF
  FROM busybox
  CMD echo "Hello"
 EOF
```

Step 4: docker run -p 80:80 imageid

```
1] (local)
               root@192.168.0.8
$ docker images
REPOSITORY
              TAG
                         IMAGE ID
                                        CREATED
                                                         SIZE
<none>
              <none>
                         72d27fc1ec76
                                                         4.87MB
                                        11 seconds ago
rocker/verse
              latest
                         551e1a37de34
                                        2 days ago
                                                         3.43GB
                                                         4.87MB
              latest
                         66ba00ad3de8
                                        8 weeks ago
node1] (local) root@192.168.0.8 ~
$ docker run -p 80:80 72d27fc1ec76
Hello
```

Step 5: Push the image to docker.

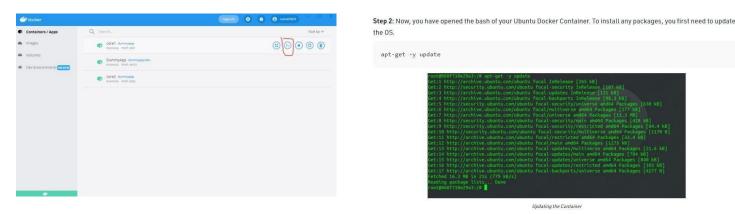
Step 6: Navigate to Docker repository and check the Image in Tags section

Tags			10	IMAGE INSIGHTS INACTIV
This repository contains 3 t	ag(s).			
Tag	os	Туре	Pulled	Pushed
newimageid	۵	Image	Sees	9 minutes ago
• latest	۵	Image	-	10 minutes ago
shravya_image	۵	Image	-	33 minutes ago

Practical No.:04

Aim:- Installing s/w packages on docker.

Step 1 – Go to CLI Option on the container in Docker Desktop



Step 3: After you have updated the Docker Container, you can now install the Firefox and Vim packages inside it.



You can now easily use these packages through the bash itself.

Step 4: Run vim to verify if the software package has been installed

Container volumes

With the previous experiment, we saw that each container starts from the image definition each time it starts. While containers can create, update, and delete files, those changes are lost when the container is removed and all changes are isolated to that container. With volumes, we can change all of this.

Volumes provide the ability to connect specific filesystem paths of the container back to the host machine. If a directory in the container is mounted, changes in that directory are also seen on the host machine. If we mount that same directory across container restarts, we'd see the same files.

Step 1

Working with Docker Volumes explained below:-

a) Let us create the volume first. For the reference we will type below command:-→ docker volume

```
F:\Microservices\getting-started-master\app>docker volume
Usage: docker volume COMMAND
Manage volumes
Commands:
 create
              Create a volume
              Display detailed information on one or more volumes
 inspect
 1s
              List volumes
 prune
              Remove all unused local volumes
              Remove one or more volumes
 rm
Run 'docker volume COMMAND --help' for more information on a command.
F:\Microservices\getting-started-master\app>
```

- b) Now lets create the actual volume:-
 - → docker volume create myvol1

```
F:\Microservices\getting-started-master\app>docker volume create myvol1
myvol1
F:\Microservices\getting-started-master\app>
```

As you can see here our volume is created.

c) To list the volume we will write below command:-

```
F:\Microservices\getting-started-master\app>docker volume ls

DRIVER WOLUME NAME
local aba83257ee43df3f86bfea2b09c1d1ffe5a59b9ced82c6b7ea5f458e9e298e72
local d247fdb49990ed914b54fffe365671c1f3b773d5871038817e18d36cf6e288bf
local myvol1

F:\Microservices\getting-started-master\app>
```

- d) To get the details of our volume we have to write below command:-
 - → docker volume inspect myvol1

Here you can see all the details of our myvol1 i.e. name, created time, driver, mountpoint.

Our volume is located at the path mentioned in Mountpoint section.

- e) To remove your volume you can write below command:-
 - → docker volume rm myvol1

To remove all unused volumes we can write below command

→ docker volume prune

These are the basic functionalities of docker volume. You can explore more functionalities as well.

Working with docker network explained below:-

To write this command below is the syntax:-

- → docker network COMMAND
- a) To Connect a container to a network
 - → docker network connect
- b) To create a network we have to write below command:-
 - → docker network create
- c) To disconnect a container from a network
 - → docker network disconnect
- d) To display detailed information on one or more networks
 - docker network inspect
- e) To list the network:-
 - → docker network Is
- f) To remove all unused networks
 - → docker network prune
- g) To remove one or more networks
 - → docker network rm

Practical 05

<u>Aim</u>: Working with Docker Volumes and Networks.

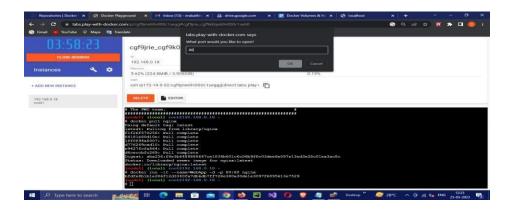
Pre-Requisites:

- 1. Open Windows Firewall
- 2. Click on Advanced Security
- 3. Click on Inbound Rules
- 4. Create a New Rule
 - a. Which type of rule would you like to create \rightarrow port
 - b. Does this rule apply the local ports or specific local ports
 - c. Select Specific local ports 80
 - d. What action should be taken when a connection matches the specified conditions? Allow the connection
 - e. When does this apply? Domain, Private, Public
 - f. Name: ReportServer
 - g. Description: ReportServer

Step 1: Enter the following Commands

- a) docker pull nginx nginx : nginx is the image which is already available in docker
- b) docker run -it –name=webApp -d -p 80:80 nginx: Create a webapp and run it with nginx image on port 80

Step 2: Click on Port and enter 80 in the dropdown window and click OK.



Output: The below webpage will be visible



Step 3: Enter the below command in order to enter into bash shell and then open port 80.

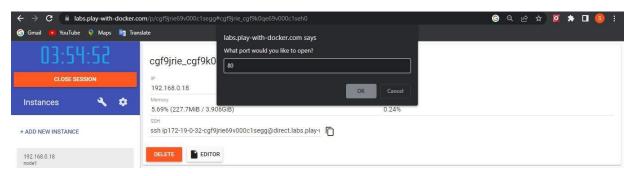
docker exec -it WebApp bash

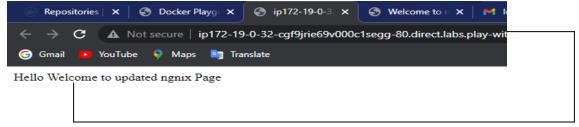
Cd /usr/share/nginx/html

exit

Echo "Hello Welcome to updated nginx Page."> index.html







Step 4: List all the running containers: docker ps

Step 5: Create another container in Docker: WebApp1

Docker run -it -name=WebApp1 -d -p 80:80 nginx:

```
[node1] (local) root@192.168.0.18 ~
$ docker run -it --name=WebApp1 -d -p 80:80 nginx
730d55e312d235cc564d53d21a5cdc33145329d2025bfb8a2f834784e9c19d57
[node1] (local) root@192.168.0.18 ~
```

Step 6: Click on port and enter 80 in the dropdown and click ok

Output: the welcome page of nginx should be visible



Problem: Updates made in one container is not reflected into another container.

Solution: - Volume

Update made in one container within the volume will be reflected in all the containers of that volume.

Step 7: Creation of Volume(MyVolume)

Command:

- a) docker volume create MyVolume
- b) docker volume ls

c) docker volume inspect MyVolume

d) docker stop WebApp1

```
(local) root@192.168.0.18 ~
 docker volume create MyVolume
MyVolume
                                                                  ne container MyVolume
[node1] (local) root@192.168.0.18 ~
docker volume ls
bash: dkocdocker: command not found
      [] (local) root@192.168.0.18 ~
                                                                  x/html –p 80:80 nginx
$ docker volume ls
           VOLUME NAME
DRIVER
local
           MyVolume
                                                                  ination=/usr/share/nginx/html -p 80:80 nginx
 docker volume inspect MyVolume
                                                                   e5bb1
        "CreatedAt": "2023-03-25T07:02:17Z",
        "Driver": "local",
       "Labels": {},
"Mountpoint": "/var/lib/docker/volumes/MyVolume/_data",
        "Name": "MyVolume",
       "Options": {},
"Scope": "local"
   de1] (local) root@192.168.0.18 ~
 docker stop WebApp1
WebApp1
```

- f) cd MyVolume
- g) ls
- h) cd data

```
(local) root@192.168.0.18 ~
$ ls /
bin
           dev
                                                media
                                                                                     sbin
                                                             opt
                                                                         root
                                                                                                  sys
                                                                                                              usr
           docker.log home
                                    lib64
                                                mnt
                                                             proc
                                                                                                  tmp
certs
                                                                         run
                                                                                     srv
                                                                                                              var
  ode1] (local) root@192.168.0.18 ~
$ cd /var/lib/docker
  odel] (local) root@192.168.0.18 /var/lib/docker
buildkit
           containers network
                                    plugins
                                                 swarm
                                                             trust
containerd image
                        overlay2
                                    runtimes
                                                 tmp
                                                             volumes
```

Step 11: Stop the above container (WebApp2) and Create another container within the volume (MyVolume)

```
[node1] (local) root@192.168.0.18 /var/lib/docker/volumes/MyVolume/_data
$ docker stop WebApp2
WebApp2
[node1] (local) root@192.168.0.18 /var/lib/docker/volumes/MyVolume/_data
$ docker run -d --name=WebApp3 --mount source=MyVolume, destination=/usr/share/nginx/html -p 80:80 nginx
8c5a64afec6835d8e473916fc7ed68356ff7861ba4177f38f5b78b900e6562c2
[node1] (local) root@192.168.0.18 /var/lib/docker/volumes/MyVolume/_data
```

Open port 80

Output: The edits made in one container of the volume will be reflected in all the containers of that volume

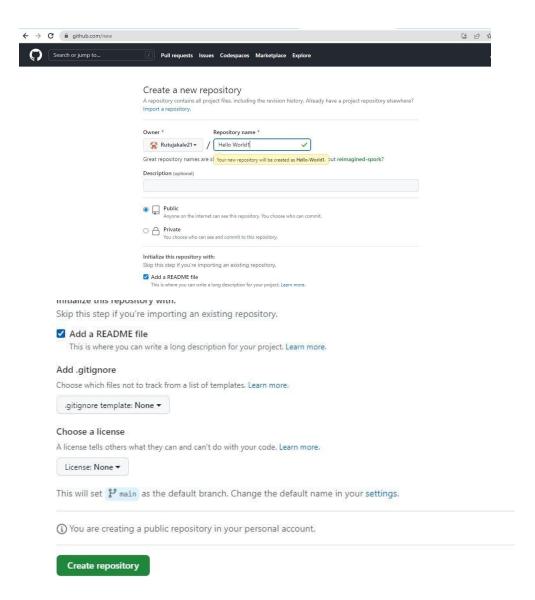


Practical 6

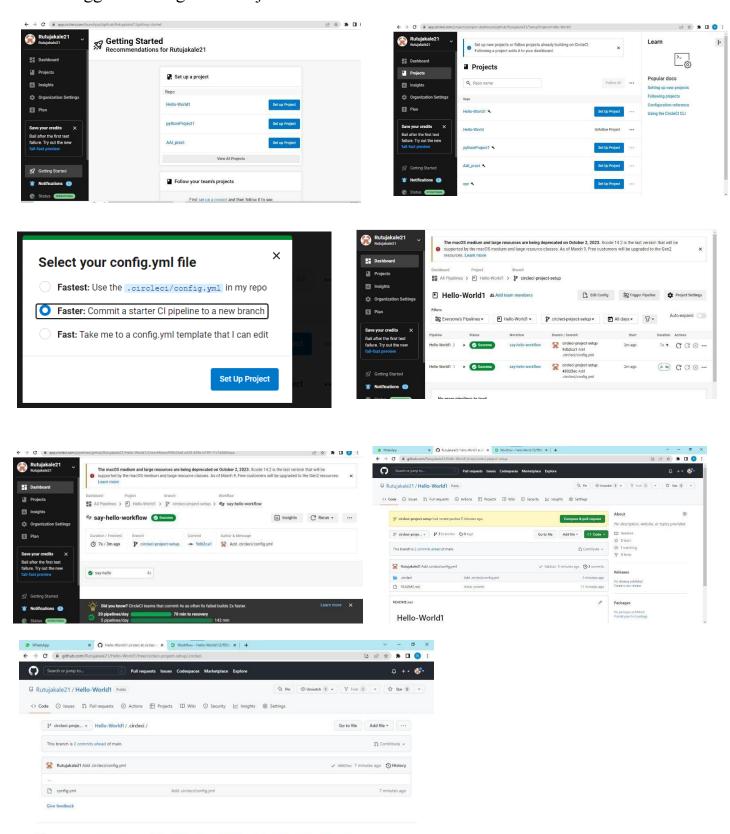
Aim: Working with Circle CI for continuous integration

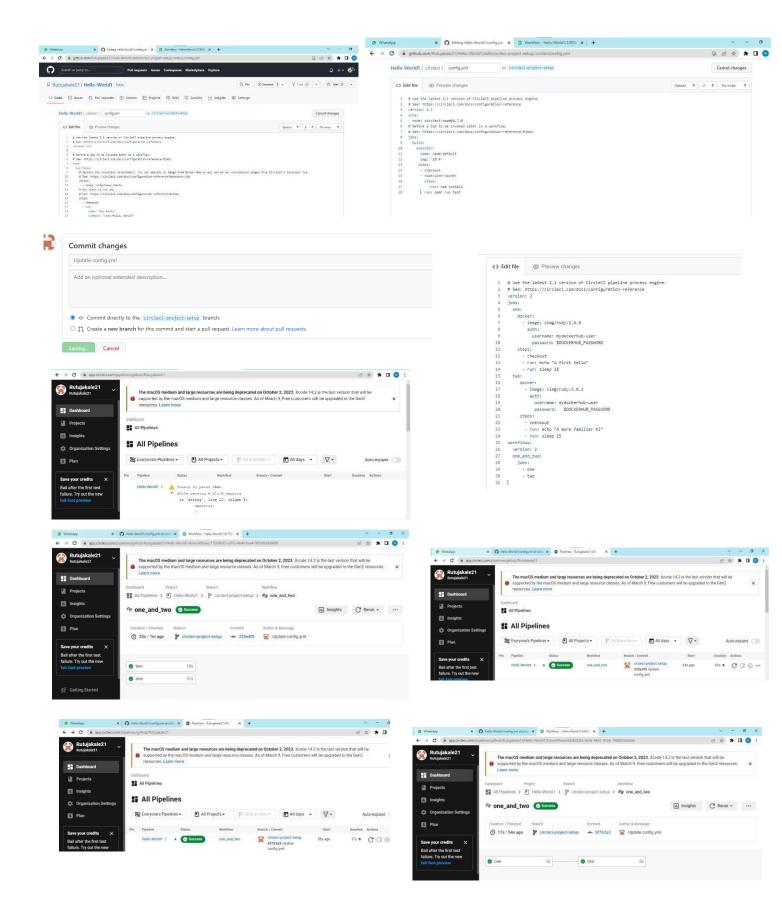
Step 1 - Create a repository

- 1. Log in to GitHub and begin the process to create a new repository.
- 2. Enter a name for your repository (for example, hello-world).
- 3. Select the option to initialize the repository with a README file.
- 4. Finally, click Create repository.
- 5. There is no need to add any source code for now



6. Login to Circle CI https://app.circleci.com/ Using GitHub Login, Once logged in navigate to Projects.

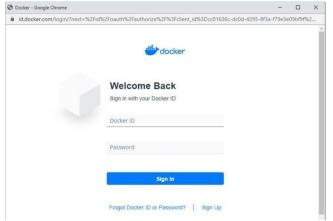




Practical No.:07

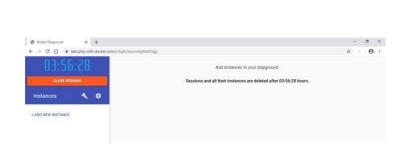
Aim:- Creating Backing service with ASP.NET 2.0 core.

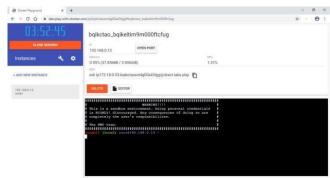
Now login in to Play-With-Docker





Click on Add New Instance





Start typing following commands

Command :docker run -d -p 5000:5000 -e PORT=5000 \-e LOCATION URL=http://localhost:5001 \dotnetcoreservices/teamservice:location

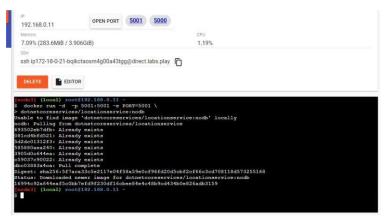
output: (you can observe that it has started port 5000 on top)



Command: to run location service

docker run -d -p 5001:5001 -e PORT=5001 dotnetcoreservices/locationservice:nodb

output: (now it has started one more port that is 5001 for location service)



Command: to check running images in docker \$docker images

output:

```
docker images
REPOSITORY
                                     TAG
                                                         IMAGE ID
                                                                             CREATED
                                                                                                  SIZE
dotnetcoreservices/teamservice
                                    location
                                                         b27d0de8f2de
                                                                             3 years ago
                                                                                                  886MB
dotnetcoreservices/locationservice
                                    nodb
                                                         03339f0ea9dd
                                                                                                  883MB
       (local) root@192.168.0.11
```

Command: to create new team

curl -H "Content-Type:application/json" -X POST -d \'{"id":"e52baa63-d511-417e-9e54-7aab04286281", "name":"KC"}' http://localhost:5000/teams

Output:Command:To confirm that team is added

curl http://localhost:5000/teams/e52baa63-d511-417e-9e54-7aab04286281

Output

Command: to add new member to team

curl -H "Content-Type:application/json" -X POST -d \'{"id":"63e7acf8-8fae-42ce-9349-3c8593ac8292", "firstName":"Kirti", "lastName":"Bhatt"}' http://localhost:5000/teams/e52baa63-d511-417e-9e54-7aab04286281/members

Output:

```
[node1] (local) root@192.168.0.23 ~
$ curl -H "Content-Type:application/json" -X POST -d \
> '{"id":"63e7acf8-8fae-42ce-9349-3c8593ac8292", "firstName":"Kirti", "lastName":"Bhatt"}' http://localhost:5000/
teams/e52baa63-d511-417e-9e54-7aab04286281/members
{"teamID":"e52baa63-d511-417e-9e54-7aab04286281", "memberID":"63e7acf8-8fae-42ce-9349-3c8593ac8292"}[node1] (local)
    root@192.168.0.23 ~
$
```

Command: To confirm member added

curl http://localhost:5000/teams/e52baa63-d511-417e-9e54-7aab04286281

output:

```
[node1] (local) root@192.168.0.23 ~
$ curl http://localhost:5000/teams/e52baa63-d511-417e-9e54-7aab04286281
{"name":"KC","id":"e52baa63-d511-417e-9e54-7aab04286281","members":[null,{"id":"63e7acf8-8fae-42ce-9349-3c8593ac8
292","firstName":"Kirti","lastName":"Bhatt"}]} [node1] (local) root@192.168.0.23 ~
$
```

Command: To add location for member

curl -H "Content-Type:application/json" -X POST -d \'{"id":"64c3e69f-1580-4b2f-a9ff-2c5f3b8f0e1f", "latitude":12.0,"longitude":12.0,"altitude":10.0, "timestamp":0,"memberId":"63e7acf8-8fae-42ce-9349-3c8593ac8292"}' http://localhost:5001/locations/63e7acf8-8fae-42ce-9349-3c8593ac8292">http://localhost:5001/locations/63e7acf8-8fae-42ce-9349-3c8593ac8292

output:

```
[node1] (local) root@192.168.0.23 ~
$ curl -H "Content-Type:application/json" -X POST -d \
> '{"id":"64c3e69f-1580-4b2f-a9ff-2c5f3b8f0e1f", "latitude":12.0,"longitude":12.0,"altitude":10.0, "timestamp":0,
"memberId":"63e7acf8-8fae-42ce-9349-3c8593ac8292"} http://localhost:5001/locations/63e7acf8-8fae-42ce-9349-3c859
3ac8292
{"id":"64c3e69f-1580-4b2f-a9ff-2c5f3b8f0e1f", "latitude":12.0, "longitude":12.0, "altitude":10.0, "timestamp":0, "memb
erID":"63e7acf8-8fae-42ce-9349-3c8593ac8292"} [node1] (local) root@192.168.0.23 ~
$
```

Command: To confirm location is added in member

curl http://localhost:5001/locations/63e7acf8-8fae-42ce-9349-3c8593ac8292

output:

```
[node1] (local) root@192.168.0.23 ~
$ curl http://localhost:5001/locations/63e7acf8-8fae-42ce-9349-3c8593ac8292
[{"id":"64c3e69f-1580-4b2f-a9ff-2c5f3b8f0e1f","latitude":12.0,"longitude":12.0,"altitude":10.0,"timestamp":0,"mem berID":"63e7acf8-8fae-42ce-9349-3c8593ac8292"}] [node1] (local) root@192.168.0.23 ~
$ [
```