

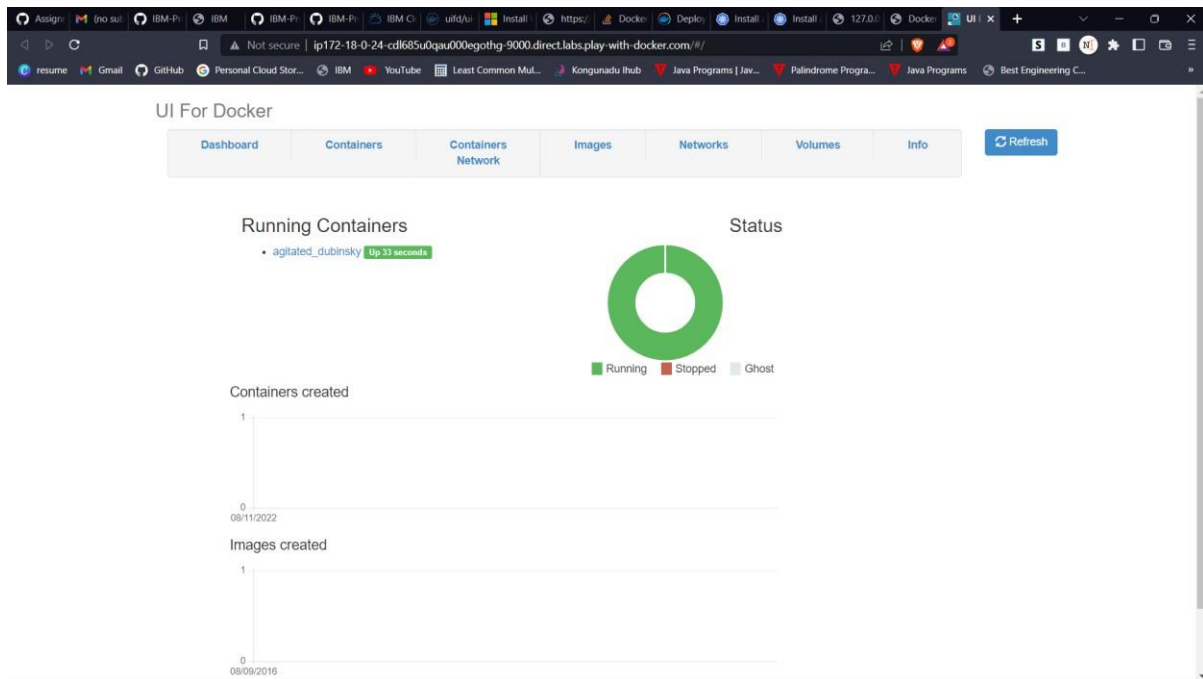
SPRINT 4

DATE	19 NOVEMBER 2022
TEAM ID	PNT2022TMID48401
PROJECT NAME	SMART FASHION RECOMMENDER APPLICATION

Pull an Image from docker hub and run it in docker playground.

The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:57:52, a 'CLOSE SESSION' button, and a list of instances. The main area displays the details of a container named 'cdl685u0_cdl687v91rrg00ft0om0'. It shows the IP address 192.168.0.18, memory usage at 1.58%, and CPU usage at 0.19%. Below this, there's a terminal window with the following commands and output:

```
# This is a sandbox environment. Using personal credentials #
# is HIGHLY discouraged. Any consequences of doing so are #
# completely the user's responsibilities. #
# The PWD team. #
#####
[node1] (local) root@192.168.0.18 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
841194d080c8: Pull complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834chadF244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[node1] (local) root@192.168.0.18 ~
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
9826dadf50bd684043f39bce4af6025d4397f8ae57b04e4762962369f90c80f0
[node1] (local) root@192.168.0.18 ~
$ docker images
REPOSITORY          TAG         IMAGE ID      CREATED      SIZE
uifd/ui-for-docker  latest     965940f98fa5  6 years ago  8.1MB
[node1] (local) root@192.168.0.18 ~
$
```



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22621.755]
(c) Microsoft Corporation. All rights reserved.

D:\OneDrive\Desktop\IBM Docs\Assignments\assignment-four>docker build -t assignment-four
"docker build" requires exactly 1 argument.
See 'docker build --help'.

Usage: docker build [OPTIONS] PATH | URL | -

Build an image from a Dockerfile

D:\OneDrive\Desktop\IBM Docs\Assignments\assignment-four>docker build -t assignment-four .
[+] Building 410.4s (12/12) FINISHED
=> [internal] load build definition from Dockerfile                                0.0s
=> => transferring dockerfile: 231B                                              0.0s
=> [internal] load .dockerignore                                                  0.0s
=> => transferring context: 2B                                                    0.0s
=> [internal] load metadata for docker.io/library/python:3.6                    3.1s
=> [auth] library/python:pull token for registry-1.docker.io                    0.0s
=> [1/6] FROM docker.io/library/python:3.6@sha256:f86t2afaf83c25f0e22354d547d892591067aa4026a7fa9a6919df9f300af6-c 0.0s
=> [internal] load build context                                                  0.0s
=> => transferring context: 292B                                                  0.0s
=> CACHED [2/6] WORKDIR /app                                                      0.0s
=> [3/6] ADD . /app                                                              0.0s
=> [4/6] COPY requirements.txt /app                                              0.0s
=> [5/6] RUN python3 -m pip install -r requirements.txt                          5.7s
=> [6/6] RUN python3 -m pip install ibm_db                                      400.6s
=> => exporting to image                                                         0.8s
=> => exporting layers                                                            0.7s
=> => writing image sha256:c078f0dadaefc509e6a60020e5640f17ad4ae981c68d3f7c7c416ec0c88fcbac 0.0s
=> => naming to docker.io/library/assignment-four                             0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

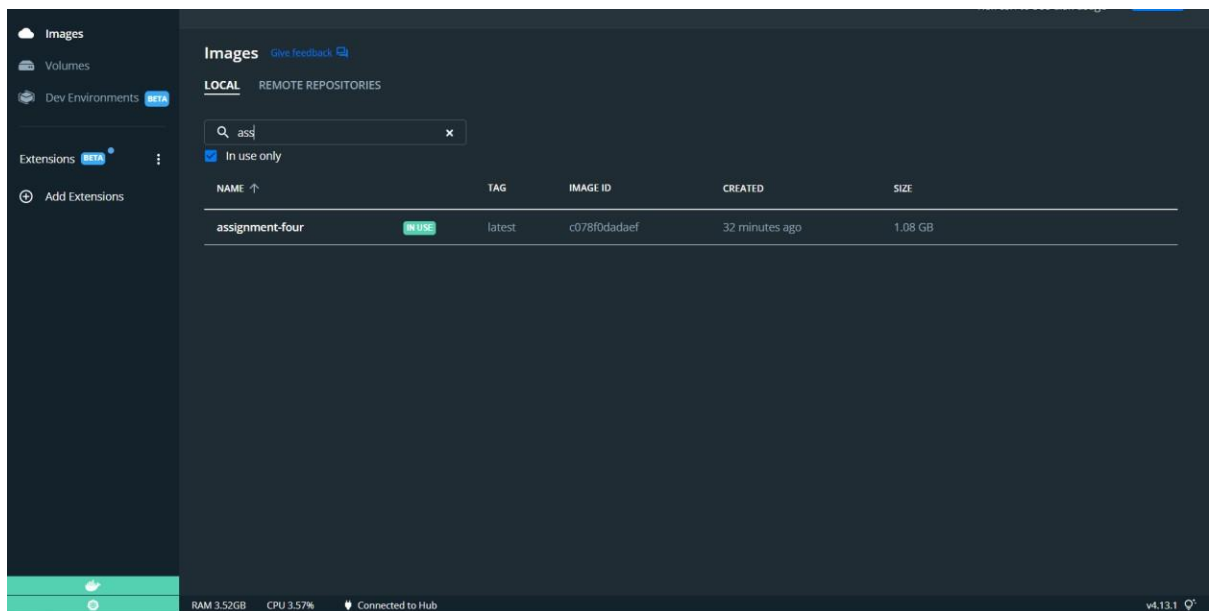
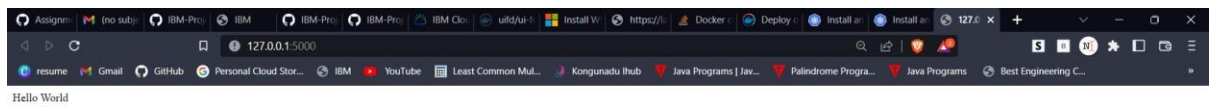
D:\OneDrive\Desktop\IBM Docs\Assignments\assignment-four>
```

```
C:\Windows\System32\cmd.exe X + -
D:\OneDrive\Desktop\IBM Docs\Assignments\assignment-four>docker images
REPOSITORY          TAG                 IMAGE ID            CREATE
D                     SIZE
assignment-four      latest             c078f0dadaef       55 sec
ons ago             1.08GB
<none>              <none>            43c70dac96eb       15 min
utes ago           913MB
docker101tutorial   latest            3da8546f1c85       5 days
ago               28.9MB
alpine/git          latest            42alcda0ba24       2 week
s ago            43.6MB
docker/desktop-git-helper c1e302e18fba86bb07f6b657155011bd6791dfc5 352f04e41a19 2 week
s ago            45.8MB
hubproxy.docker.internal:5000/docker/desktop-kubernetes kubernetes-v1.25.2-cni-v1.1.1-critools-v1.24.2-cri-dockerd-v0.2.5-1-debian 09d7e1dbc2c4 6 week
s ago            363MB
k8s.gcr.io/kube-apiserver v1.25.2          97801f839490       6 week
s ago            128MB
k8s.gcr.io/kube-scheduler v1.25.2          ca0ealee3cfd       6 week
s ago            50.6MB
k8s.gcr.io/kube-controller-manager v1.25.2          dbfceb93c69b       6 week
s ago            117MB
k8s.gcr.io/kube-proxy v1.25.2          1c7d8c51823b       6 week
s ago            61.7MB
k8s.gcr.io/pause 3.8              4873874c08ef       4 mont
hs ago            711kB
k8s.gcr.io/etcd 3.5.4-0          a8a176a5d5d6       5 mont
hs ago            300MB
k8s.gcr.io/coredns v1.9.3           5185b96f0bec       5 mont
hs ago            48.8MB
docker/getting-started latest            cb90f98fd791       7 mont
hs ago            28.8MB
docker/desktop-git-helper 5a4fca126aadcd3f6cc3a011aa991de982ae7000 efe2d67c403b 15 mon
ths ago            44.2MB
docker/desktop-vpnkit-controller v2.0             8c2c38aa676e       18 mon
ths ago            21MB
docker/desktop-storage-provisioner v2.0             99f89471f470       18 mon
ths ago            41.9MB

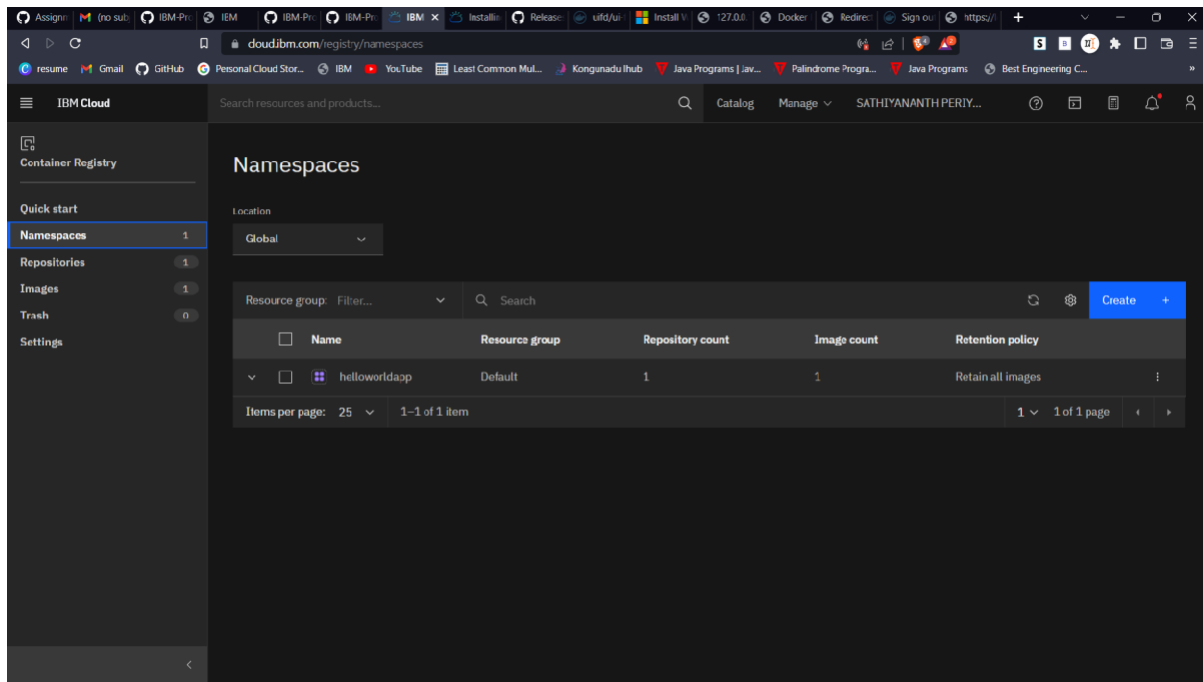
D:\OneDrive\Desktop\IBM Docs\Assignments\assignment-four>docker run -p 5000:5000 assignment-four
* Serving Flask app 'app' (lazy loading)
* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
```

```
C:\Windows\System32\cmd.exe X + -
docker101tutorial      latest            3da8546f1c85       5 days
ago                   28.9MB
alpine/git            latest            42alcda0ba24       2 week
s ago                43.6MB
docker/desktop-git-helper c1e302e18fba86bb07f6b657155011bd6791dfc5 352f04e41a19 2 week
s ago                45.8MB
hubproxy.docker.internal:5000/docker/desktop-kubernetes kubernetes-v1.25.2-cni-v1.1.1-critools-v1.24.2-cri-dockerd-v0.2.5-1-debian 09d7e1dbc2c4 6 week
s ago                363MB
k8s.gcr.io/kube-apiserver v1.25.2          97801f839490       6 week
s ago                128MB
k8s.gcr.io/kube-scheduler v1.25.2          ca0ealee3cfd       6 week
s ago                50.6MB
k8s.gcr.io/kube-controller-manager v1.25.2          dbfceb93c69b       6 week
s ago                117MB
k8s.gcr.io/kube-proxy v1.25.2          1c7d8c51823b       6 week
s ago                61.7MB
k8s.gcr.io/pause 3.8              4873874c08ef       4 mont
hs ago                711kB
k8s.gcr.io/etcd 3.5.4-0          a8a176a5d5d6       5 mont
hs ago                300MB
k8s.gcr.io/coredns v1.9.3           5185b96f0bec       5 mont
hs ago                48.8MB
docker/getting-started latest            cb90f98fd791       7 mont
hs ago                28.8MB
docker/desktop-git-helper 5a4fca126aadcd3f6cc3a011aa991de982ae7000 efe2d67c403b 15 mon
ths ago                44.2MB
docker/desktop-vpnkit-controller v2.0             8c2c38aa676e       18 mon
ths ago                21MB
docker/desktop-storage-provisioner v2.0             99f89471f470       18 mon
ths ago                41.9MB

D:\OneDrive\Desktop\IBM Docs\Assignments\assignment-four>docker run -p 5000:5000 assignment-four
* Serving Flask app 'app' (lazy loading)
* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Debug mode: on
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
* Restarting with stat
* Debugger is active!
* Debugger PIN: 569-750-282
```



Create a IBM container registry and deploy app



```
Command Prompt
C:\Users\ASUS>docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username: sathiyanth
Password:
Login Succeeded

Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/

C:\Users\ASUS>ibmcloud cr login
Logging 'docker' in to 'icr.io'...
Logged in to 'icr.io'.

OK

C:\Users\ASUS>ibmcloud cr namespace-add helloworldapp
No resource group is targeted. Therefore, the default resource group for the account ('Default') is targeted.

Adding namespace 'helloworldapp' in resource group 'Default' for account SATHIYANANTH PERIYASAMY's Account in registry icr.io...

The requested namespace is already owned by your account.

OK

C:\Users\ASUS>docker tag assignment-four icr.io/helloworldapp/testrepo:helloworldtest

C:\Users\ASUS>docker push icr.io/helloworldapp/testrepo:helloworldtest
The push refers to repository [icr.io/helloworldapp/testrepo]
7f54fa305bac: Pushed
22a411d35e51: Pushed
3b94bcb2ef50: Pushed
9ea062ac7e5d: Pushed
78ac81885ac4: Pushed
aa4c888c19f6: Pushed
8ba9f690e8ba: Pushed
3e607c59ef9f: Pushed
1e18e7e1fcc2: Pushed
c3a0d593ed24: Pushed
26a504e63be4: Pushed
8b442cb0de72: Pushed
31892cc314cb: Pushed
```

```
Command Prompt
C:\Users\ASUS>docker tag assignment-four icr.io/helloworldapp/testrepo:helloworldtest
C:\Users\ASUS>docker push icr.io/helloworldapp/testrepo:helloworldtest
The push refers to repository [icr.io/helloworldapp/testrepo]
7f54fa305bac: Pushed
22a411d35e51: Pushed
3b94bcb2ef50: Pushed
9ea062ac7e5d: Pushed
78ac81885ac4: Pushed
aa4c888c19f6: Pushed
8ba9f690e8ba: Pushed
3e607c59ef9f: Pushed
1e18e7e1fcc2: Pushed
c3a0d593ed24: Pushed
26a504e63be4: Pushed
8b442cb0de72: Pushed
31892cc31dcb: Pushed
11936651f93b: Pushed
helloworldtest: digest: sha256:78e5bb538c5b55e5827f0eecf765cb3690a4cf37ec0195dc98cb222669f0155e size: 3262
C:\Users\ASUS>ibmcloud cr image-list
Listing images...

Repository          Tag          Digest          Namespace      Created      Size      Security status
icr.io/helloworldapp/testrepo  helloworldtest  78e5bb538c5b  helloworldapp  2 hours ago  435 MB    -

OK
C:\Users\ASUS>
```

Container Registry

Quick start

Namespaces 1

Repositories 1

Images 1

Trash 0


Settings

Repositories

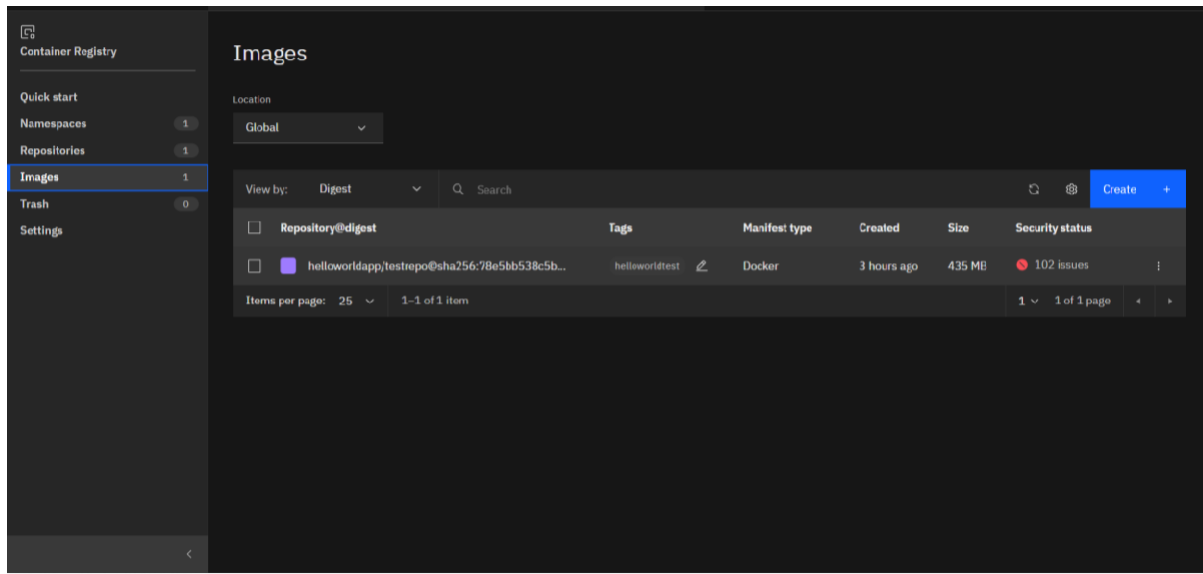
Location
Global

Search

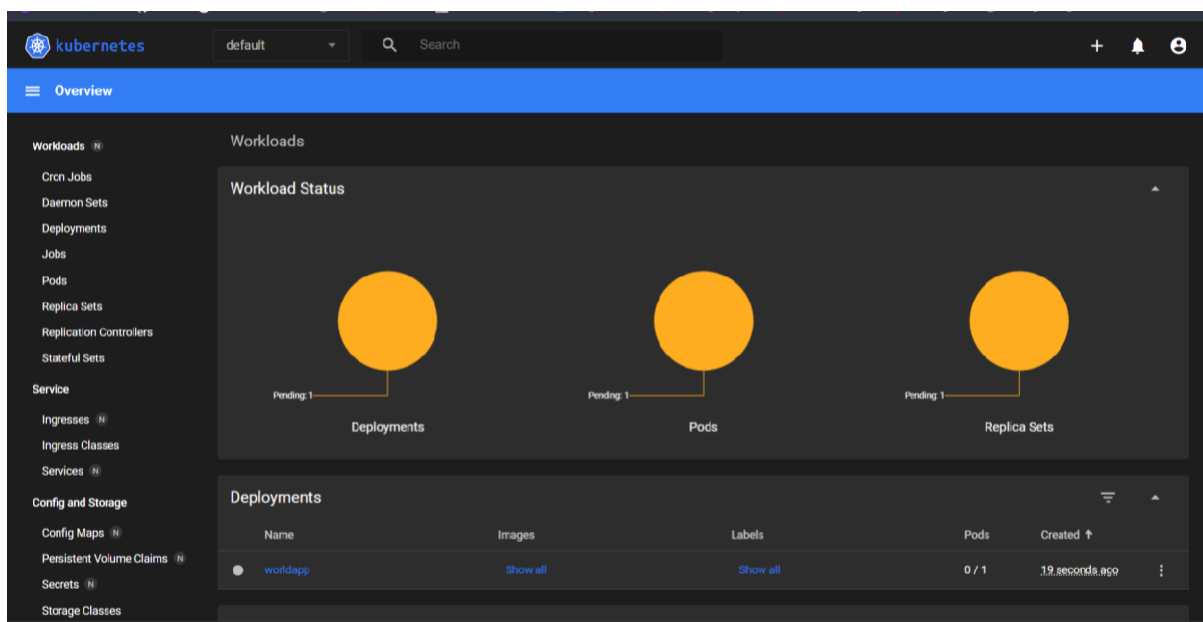
Create +


<input type="checkbox"/>	Name	Image count	Namespace	Last updated
<input checked="" type="checkbox"/>	 testrepo icr.io/helloworldapp/testrepo	1	helloworldapp	3 hours ago

Items per page: 25 1-1 of 1 item







Create a Kubernetes cluster in IBM cloud and deploy APP and also expose the same app to run in nodeport.




kubernetes

default

 Search



Overview

Workloads 

Cron Jobs

Daemon Sets

Deployments

Jobs


Pods

Replica Sets


Replication Controllers

Stateful Sets


Service


Ingresses 


Ingress Classes

Services 

Config and Storage









Config Maps 

Persistent Volume Claims 


Secrets 

Storage Classes

Namespaces

Name	Labels	Phase	Created 
 ibm-cert-store	Show all	Active	an hour ago
 ibm-operators	Show all	Active	an hour ago
 ibm-system	Show all	Active	2 hours ago
 default	Show all	Active	2 hours ago
 kube-node-lease	Show all	Active	2 hours ago
 kube-public	Show all	Active	2 hours ago
 kube-system	Show all	Active	2 hours ago

Nodes

Name	Labels	CPU Ready	CPU requests (cores)	CPU limits (cores)	CPU capacity (cores)	Memory requests (bytes)	Memory limits (bytes)	Memory capacity (bytes)	Pods	Create
 10.144.228.173	Show all	True	959.00m (49.95%)	498.00m (25.94%)	1.92	724.52Mi (26.81%)	5.43Gi (203.90%)	2.64Gi	16 (14.55%)	an hour ago

DEPLOYMENT OF APP:

REGISTRATION PAGE:

Cloud Object Storage - 11

Registration Form In HTI

Smart Fashion Recomm

ORDER PAGE

Inbox (1,569) - loganath

+

Close

←

→

↺

🔒

sfr007.s3.jp-tok.cloud-object-storage.appdomain.cloud/Registrationpage01.html?your+name=Sathish&email+address=sathis...

🔑

🔖

⚙️

🖨️

⋮

BEGINNERS - Micros...

Microsoft Excel Begin...

(a)

(b)

(c)

(d)

(e)

(f)

13-Figure2.1-1.png

Show all

×

Registration Form

Your Name

Email Address

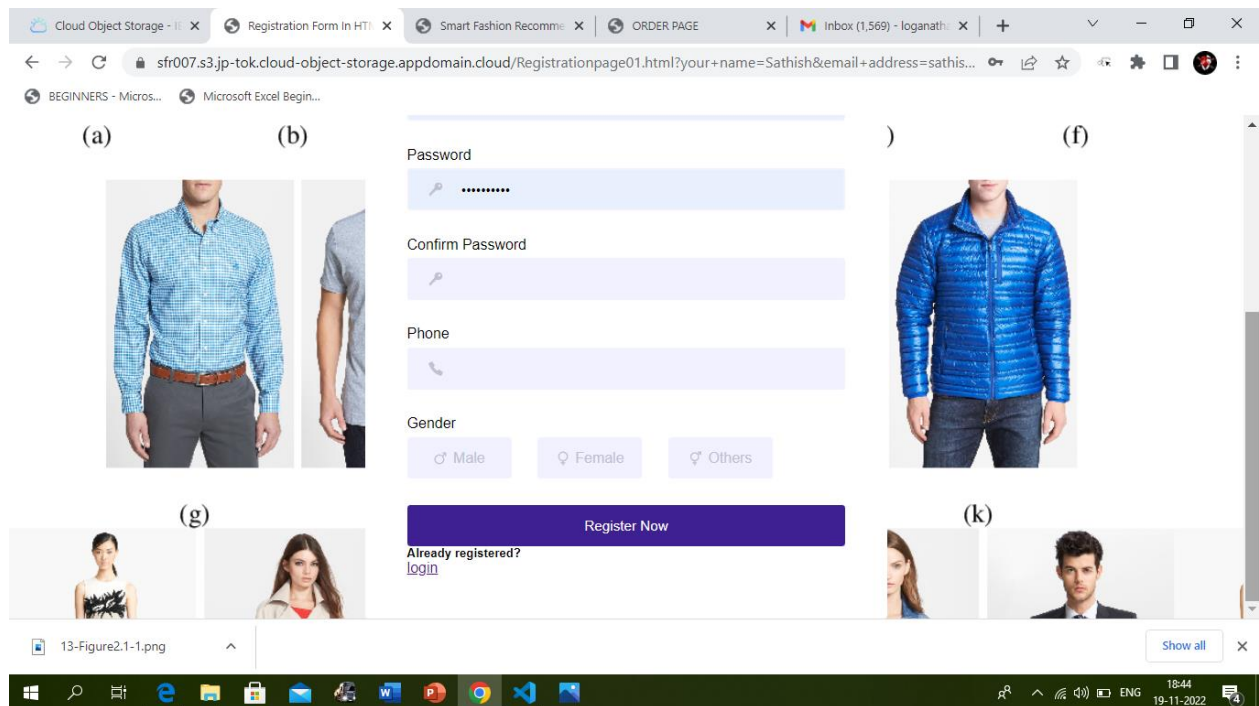
sathishrajk2001@gmail.com

Password

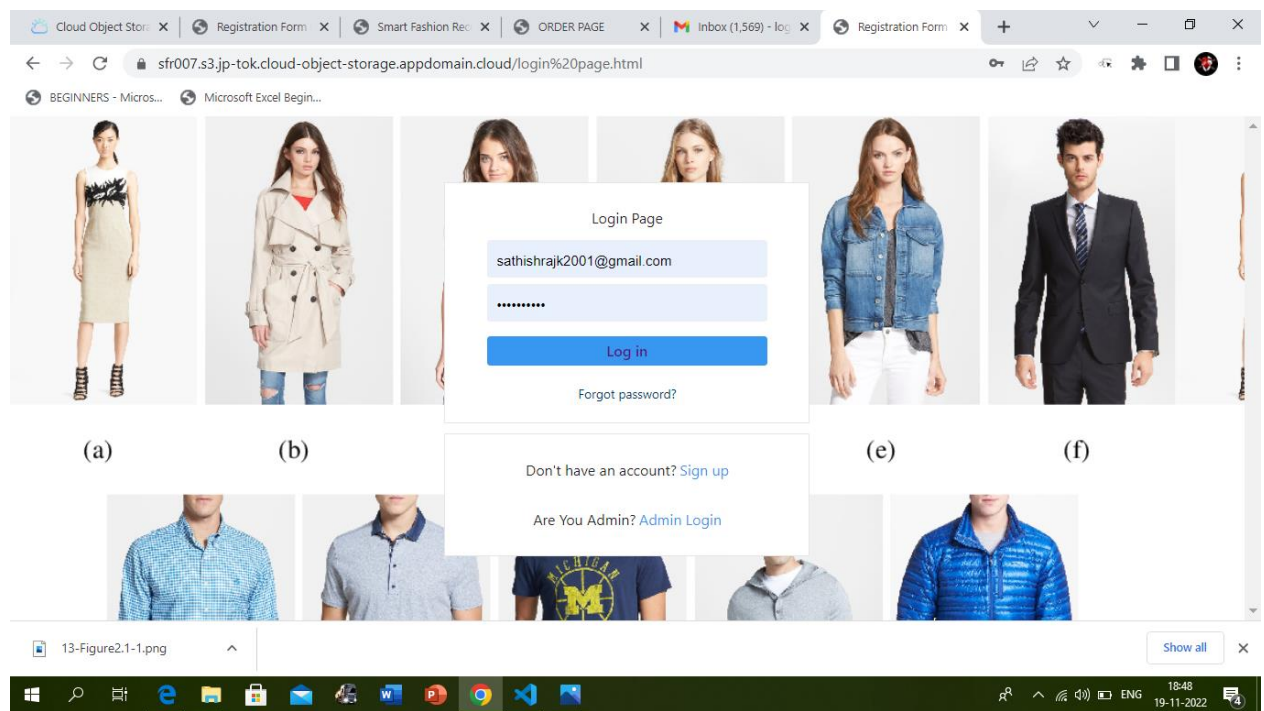
Confirm Password

18:44

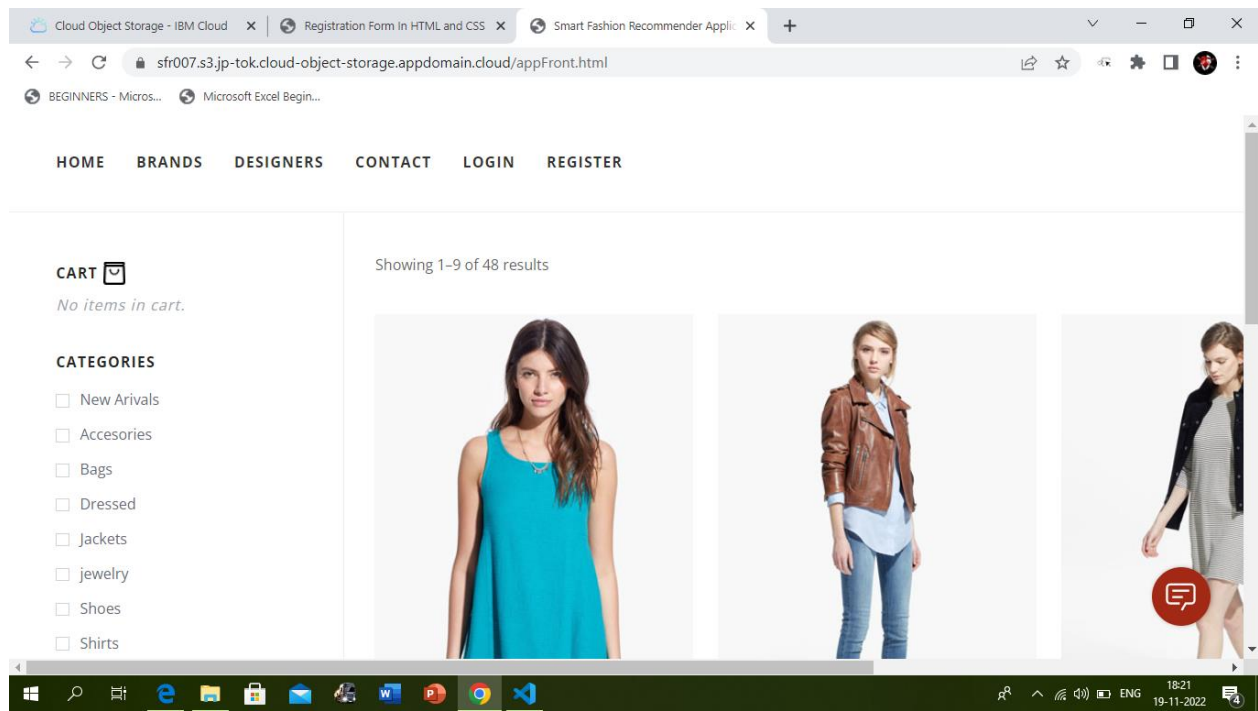
19-11-2022



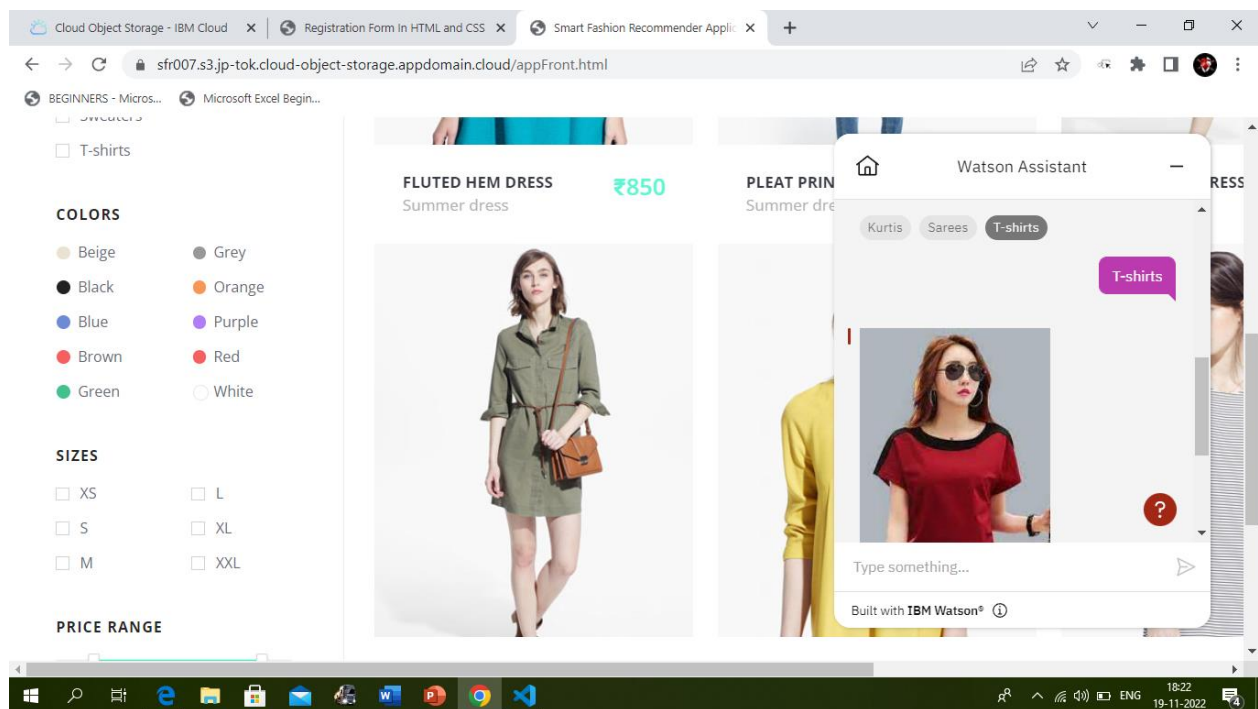
LOGIN PAGE:



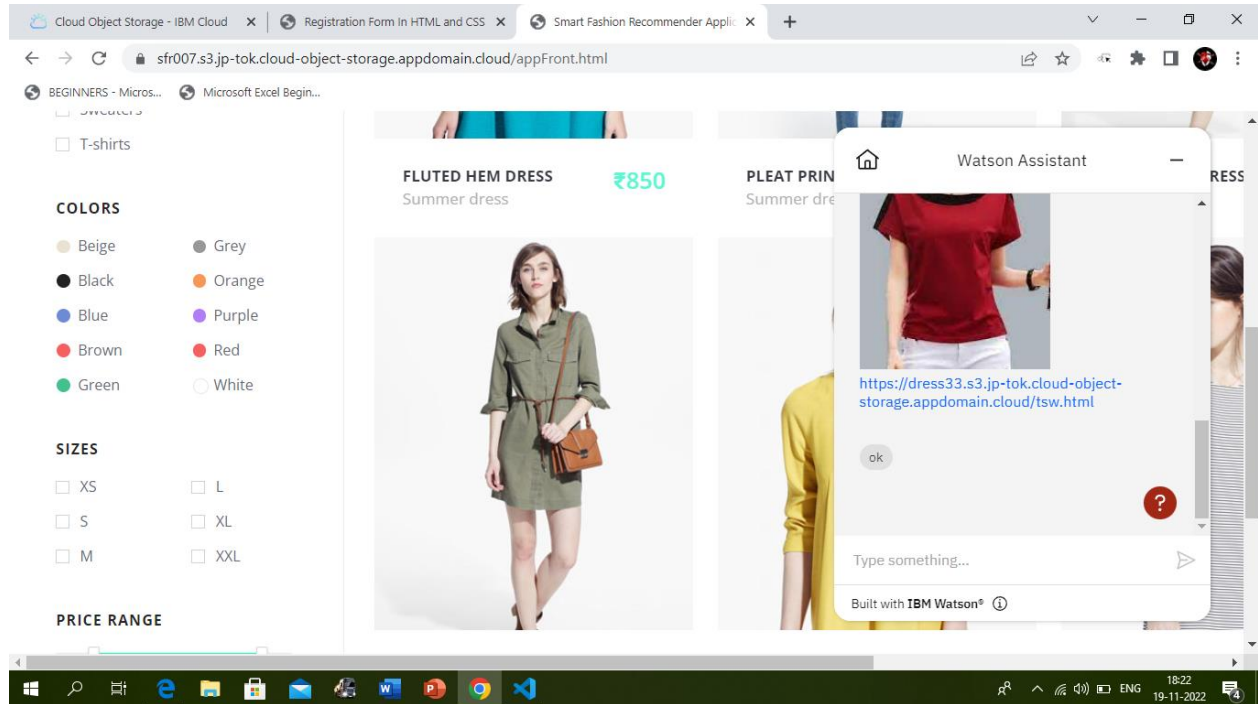
HOME SCREEN:



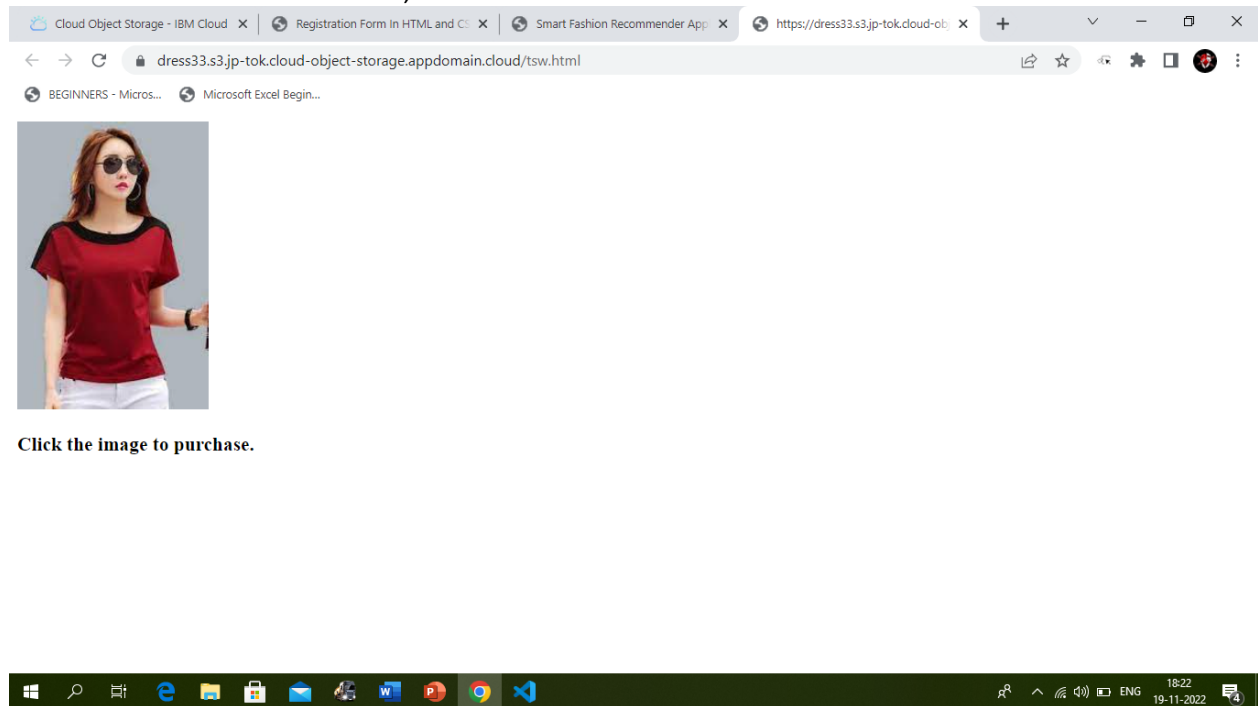
CHATBOT:

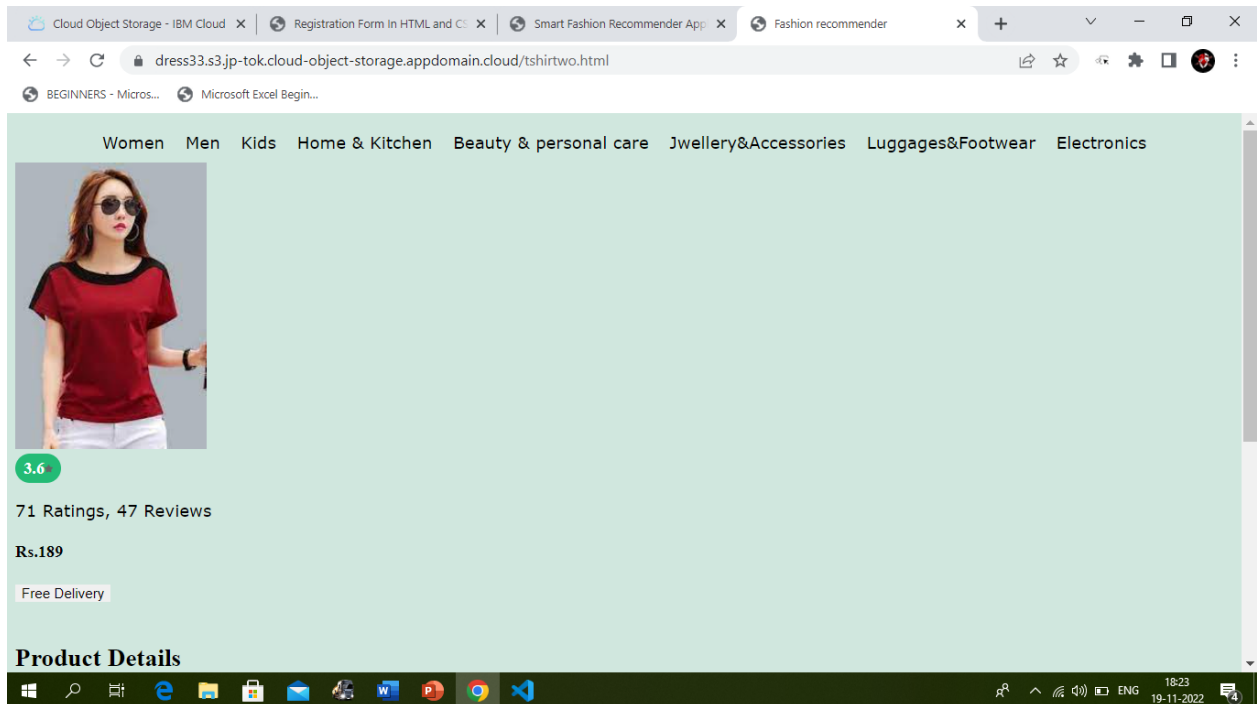


CHAT BOT RECOMMENDS DRESS



BY CLICKING PHOTO ,DIRECTING TO PURCHASE PAGE





PRODUCT ORDER FORM

Cloud Object Storage - IBM Cloud x Registration Form In HTML and C x Smart Fashion Recommender App x ORDER PAGE

dress33.s3.jp-tok.cloud-object-storage.appdomain.cloud/order%20page.html

BEGINNERS - Micros... Microsoft E

Product Order Form

First Name *

Last Name *

Company Name (Optional)

Country *
Select a country...

Street Address *
House number and street name
Apartment, suite, unit etc. (optional)

Your order

Product Name x 2(Qty) Rs.888.00

Subtotal RS.888.00

Shipping Free shipping

☒ Direct Bank Transfer

Make your payment directly into our bank account. Please use your Order ID as the payment reference. Your order will not be shipped until the funds have

Cloud Object Storage - IBM Cloud x Registration Form In HTML and C x Smart Fashion Recommender App x ORDER PAGE

dress33.s3.jp-tok.cloud-object-storage.appdomain.cloud/order%20page.html

BEGINNERS - Micros... Microsoft Excel Begin...

Product Order Form

First Name * Sathishraj

Last Name * K

Company Name (Optional)

Country * India

Street Address * 65

Your order

Product Name x 2(Qty) Rs.888.00

Subtotal RS.888.00

Shipping Free shipping

☐ Direct Bank Transfer

Make your payment directly into our bank account

Cloud Object Storage - IBM Cloud x Registration Form In HTML and C x Smart Fashion Recommender App x ORDER PAGE

dress33.s3.jp-tok.cloud-object-storage.appdomain.cloud/order%20page.html

BEGINNERS - Micros... Microsoft Excel Begin...

Anna Salai

Town / City * Madurai

State / County * India

Postcode / ZIP * 625 008

Phone * 9876543210

Email Address * sathishraj2001@gmail.com

☐ Direct Bank Transfer

Make your payment directly into our bank account. Please use your Order ID as the payment reference. Your order will not be shipped until the funds have cleared in our account.

☒ Cash on Delivery

☐ Paypal

Place Order

18:33 19-11-2022

ORDER CONFIRMED!!!!!!

Cloud Object Storage - IBM Cloud x Order Confirmation x Order Confirmation x Registration Form In HTML and C x

sfr007.s3.jp-tok.cloud-object-storage.appdomain.cloud/confirm.html

BEGINNERS - Micros... Microsoft Excel Begin...

ORDER CONFIRMED

17:17 19-11-2022

ADMIN PANEL:

ADMIN LOGIN FORM:

Admin Login Form

Admin name

sathishrajk2001@gmail.com

Password

.....

Log in

☒ Remember me

Cancel

[Forgot password?](#)

Dashboard view of the SFRA application. The interface includes a sidebar menu with options like Dashboard, Product, Order list, Analytics, Stock, Total order, Team, Messages, Favorites, Setting, and Log out. The main content area displays key metrics: Total Order (40,876), Total Sales (38,876), Total Profit (₹1,12,876), and Total Return (11,086). Below these are sections for Recent Sales and Top Selling Product.

Recent Sales

Date	Customer	Sales	Total
02 NOV 2022	Arnikashree	Delivered	₹2040.98
02 NOV 2022	Kaviya	Pending	₹240.55
02 NOV 2022	Karthick	Returned	₹250.88
02 NOV 2022	Kali Dass	Delivered	₹1700.66
02 NOV 2022	Mohammed Rasik	Pending	₹560.56
02 NOV 2022	Alex	Returned	₹440.95
02 NOV 2022	Nandha Kumar	Delivered	₹670.33
02 NOV 2022	udhaya Moorthi	Pending	₹230.53
02 NOV 2022	Aravind Samy	Delivered	₹460.52

Top Selling Product

Product	Value
Vuitton Sunglasses	₹1107
Hourglass Jeans	₹1567
Nike Sport Shoe	₹1234
Hermes Silk Scarves.	₹2312
Succi Ladies Bag	₹1456
Women kurtis	₹2345
Addidas Running Shoe	₹2345
Black Wear's Shirt	₹1245