

Date	17 November 2022
Team ID	PNT2022TMID53036
Project Name	Project - Inventory Management System For Retailers

## Sprint 4

**Ibm cloud and Docker Login in CMD :**

```

C:\Windows\System32\cmd.exe
C:\Users\SSN\Desktop\SSN College\IBM\Project Development Phase\Sprint 4>ibmcloud login
API endpoint: https://cloud.ibm.com
Region: eu-gb
Email> aravindan19023@cse.ssn.edu.in
Password>
Authenticating...
OK
Targeted account Aravindan S's Account (ea1e0298ca5442cd869ea3f748e6cf43)

API endpoint: https://cloud.ibm.com
Region: eu-gb
User: aravindan19023@cse.ssn.edu.in
Account: Aravindan S's Account (ea1e0298ca5442cd869ea3f748e6cf43)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:

C:\Users\SSN\Desktop\SSN College\IBM\Project Development Phase\Sprint 4>ibmcloud cr login
Logging 'docker' in to 'icr.io'...
Logged in to 'icr.io'.
OK
C:\Users\SSN\Desktop\SSN College\IBM\Project Development Phase\Sprint 4>

```

**Creating Namespace in ibm cloud:**

**Push the image into Namespace Repository and images:**

```

C:\Windows\System32\cmd.exe
C:\Users\SSN\Desktop\SSN College\IBM\Project Development Phase\Sprint 4>ibmcloud cr login
Logging 'docker' in to 'icr.io'...
Logged in to 'icr.io'.
OK
C:\Users\SSN\Desktop\SSN College\IBM\Project Development Phase\Sprint 4>ibmcloud cr namespace-add sprint4
No resource group is targeted. Therefore, the default resource group for the account ('Default') is targeted.
Adding namespace 'sprint4' in resource group 'Default' for account Aravindan S's Account in registry icr.io...
Successfully added namespace 'sprint4'
OK
C:\Users\SSN\Desktop\SSN College\IBM\Project Development Phase\Sprint 4>docker tag sprint3 icr.io/sprint4/sprint4-repo
C:\Users\SSN\Desktop\SSN College\IBM\Project Development Phase\Sprint 4>docker push icr.io/sprint4/sprint4-repo
Using default tag: latest
The push refers to repository [icr.io/sprint4/sprint4-repo]
04dc302fe006: Pushed
716c6b4c3190: Pushed
952b0d25f857: Pushed
98334b4c7ec9: Pushed
9fda40ddc568: Pushed
428e1f341db7: Pushed

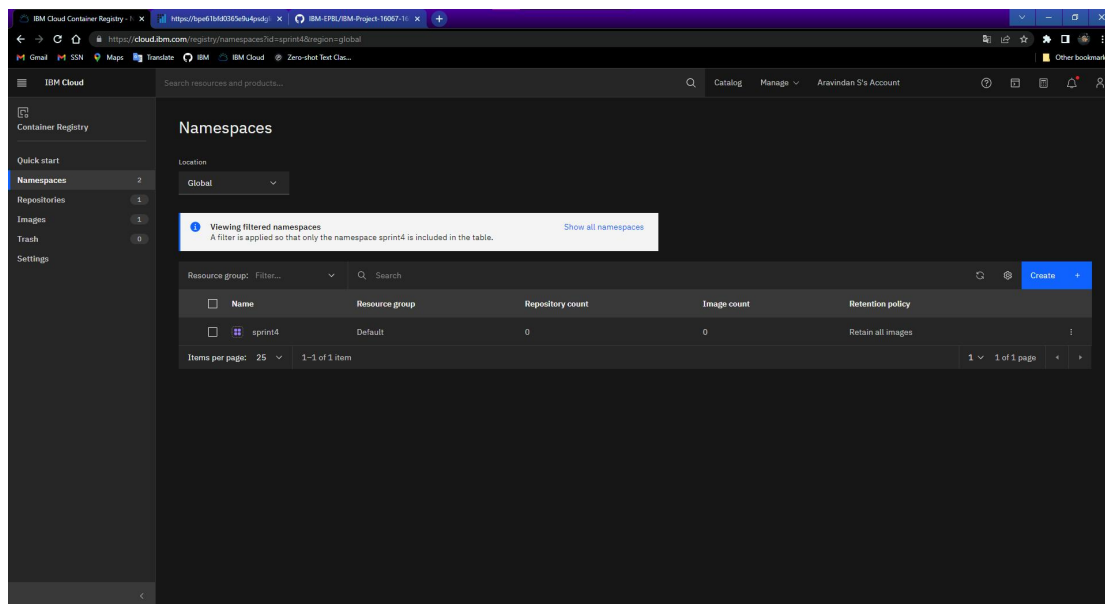
```

```
C:\Windows\System32\cmd.exe

C:\Users\SSN\Desktop\SSN College\IBM\Project Development Phase\Sprint 4>docker tag sprint3 icr.io/sprint4/sprint4-repo
C:\Users\SSN\Desktop\SSN College\IBM\Project Development Phase\Sprint 4>docker push icr.io/sprint4/sprint4-repo
Using default tag: latest
The push refers to repository [icr.io/sprint4/sprint4-repo]
04dc302fe006: Pushed
716c6b4c3190: Pushed
952b0d25f857: Pushed
98334b4c7ec9: Pushed
9fda40ddc568: Pushed
428e1f341db7: Pushed
9ea8d200cd5d: Pushed
13b045a1dfd2: Pushed
2fbabeba902e: Pushed
ee509ed6e976: Pushed
9177197c67d0: Pushed
7dbadf2b9bd8: Pushed
e7597c345c2e: Pushed
latest: digest: sha256:1e43a190912606e88d0463f55008eafd4fd54a9b109b9b1f83828dfbd3e2848d size: 3054

C:\Users\SSN\Desktop\SSN College\IBM\Project Development Phase\Sprint 4>
```

## Ibm cloud Namespace:



IBM Cloud Container Registry - 1 x | https://cloud.ibm.com/registry/namespaces?d=sprint4&region=global | IBM-EPB/IBM-Project-10067-1 | +

Search resources and products...

IBM Cloud | Catalog | Manage | Aravindan S's Account | Other bookmarks

Container Registry

Quick start

Namespaces 2

Repositories 1

Images 1

Trash 0

Settings

Namespaces

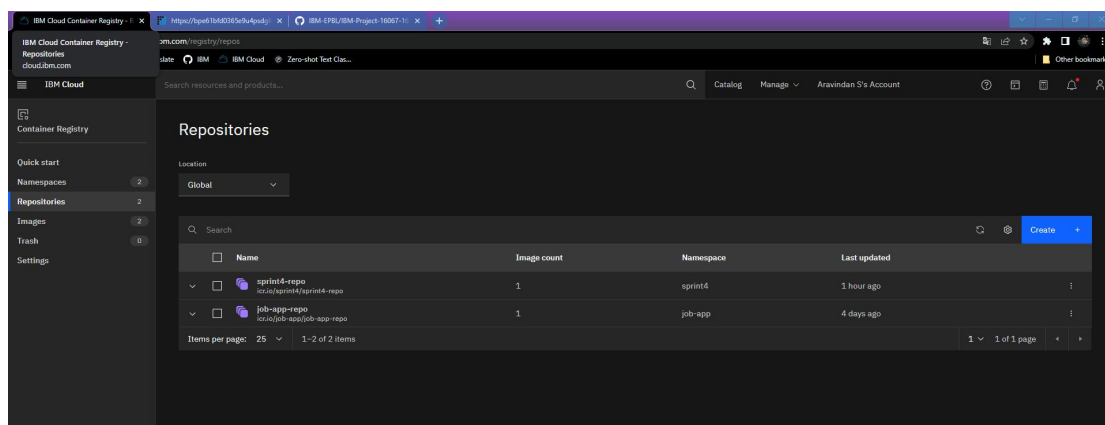
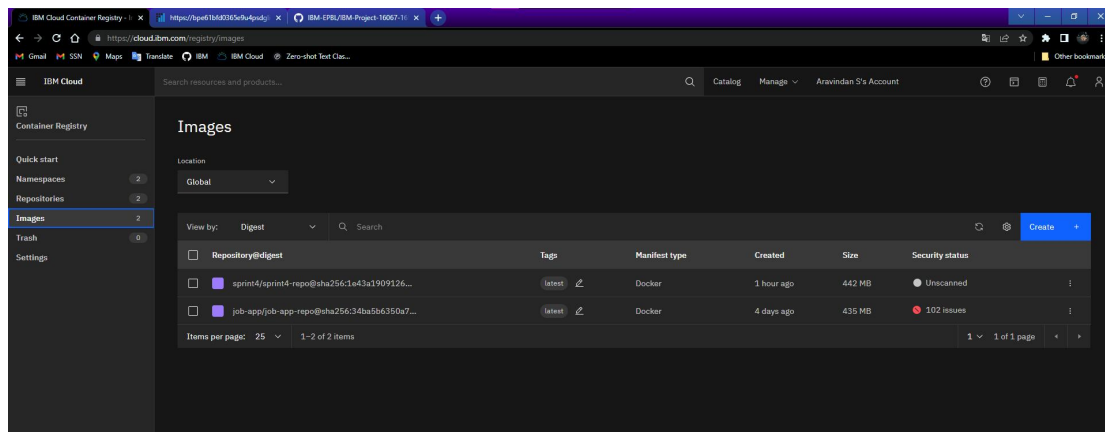
Location: Global

Viewing filtered namespaces  
A filter is applied so that only the namespace sprint4 is included in the table. [Show all namespaces](#)

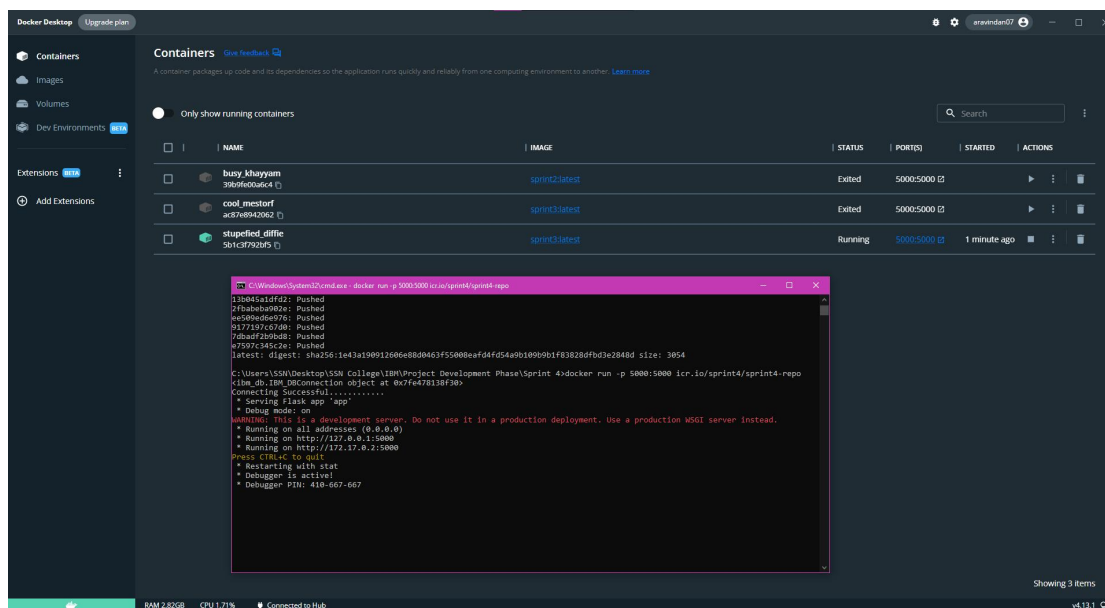
Resource group: Filter... Search

Name	Resource group	Repository count	Image count	Retention policy
sprint4	Default	0	0	Retain all images

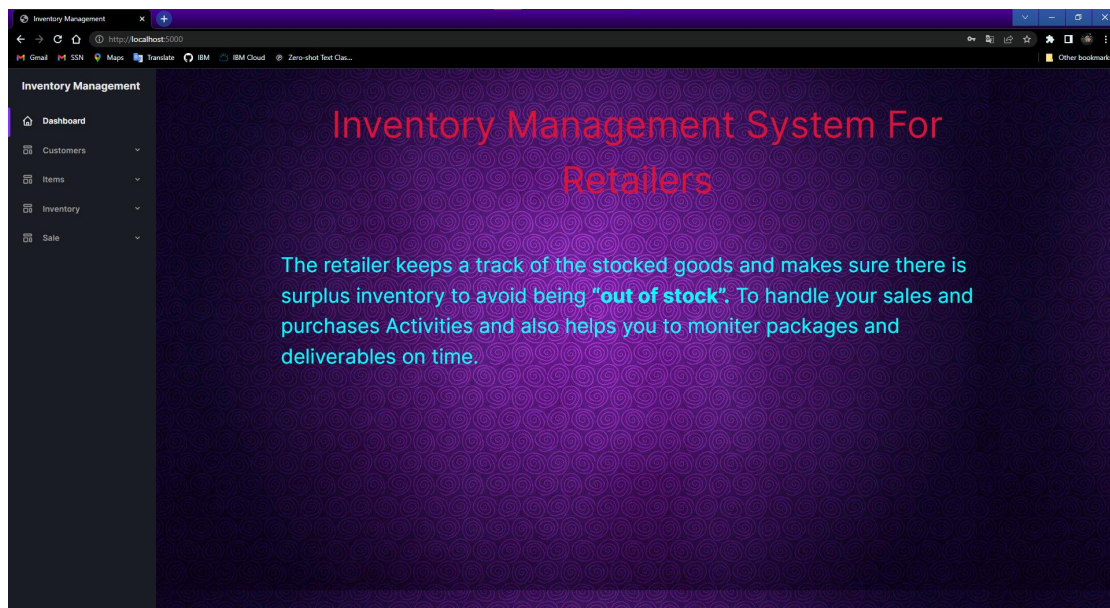
Items per page: 25 1-1 of 1 item 1 1 of 1 page



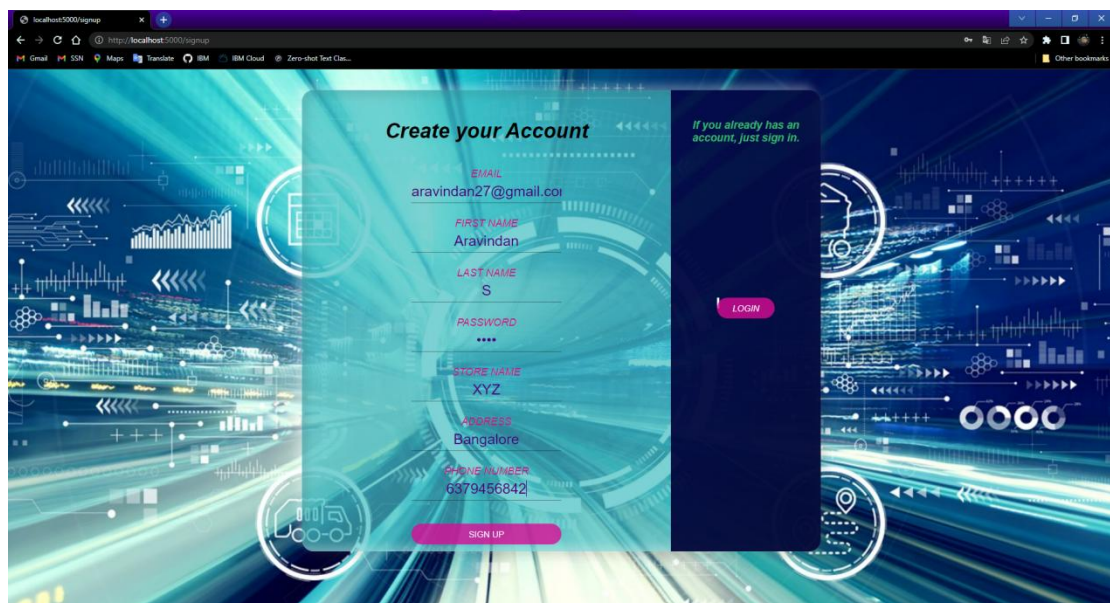
## Run the Namespace in Docker:



## Cover Page:

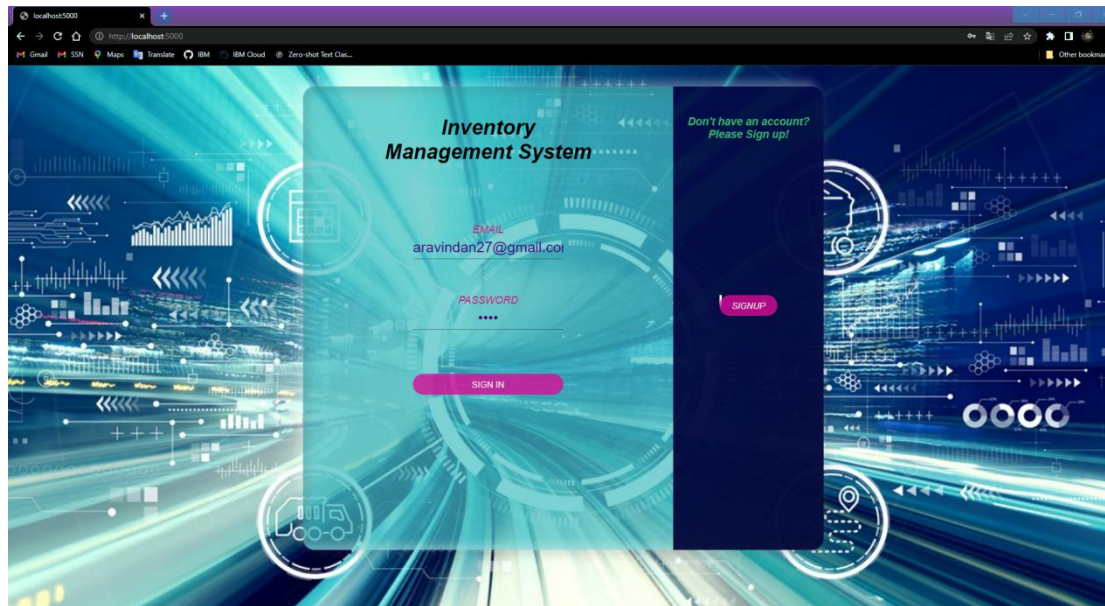


## Signup Page:

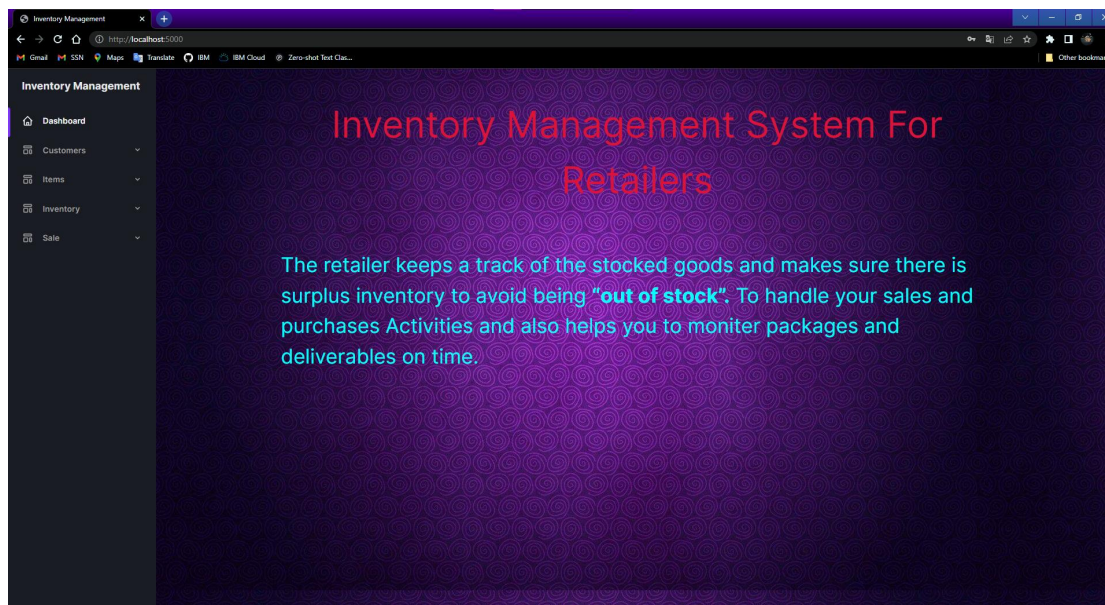




## Login Page:



## Dashboard:



## Add Customer:

Inventory Management - Forms

http://localhost:5000/add\_customer

Inventory Management

- Dashboard
- Customers
- Items

### Add Customer Details

Customer Name  
Vignesh

Customer ID(Phone number)  
2

Submit

## Storing In Database:

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

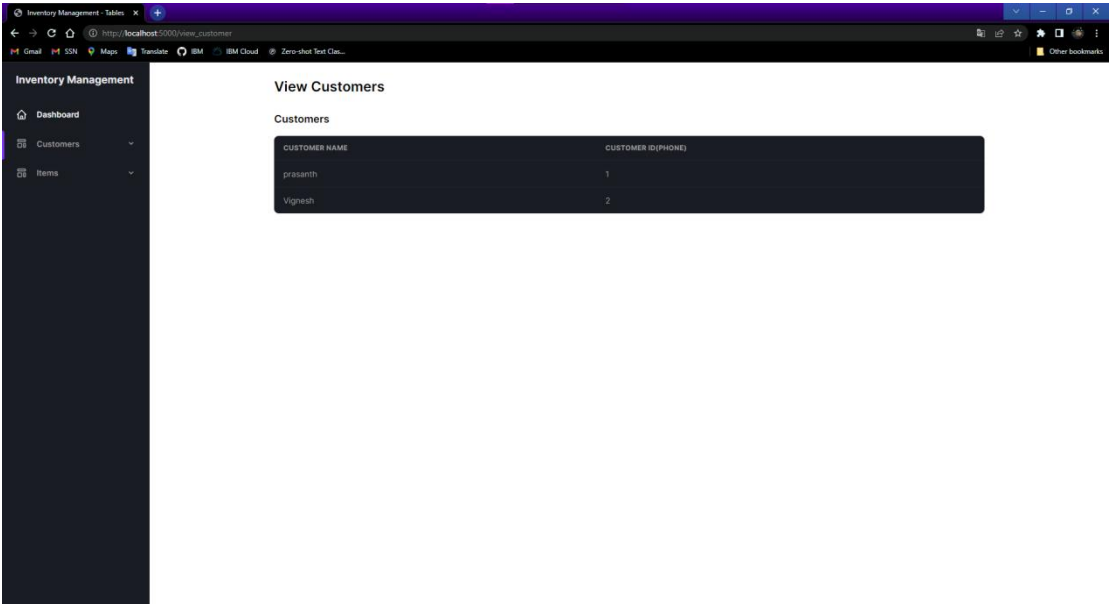
MMV18931.CUSTOMER

Back

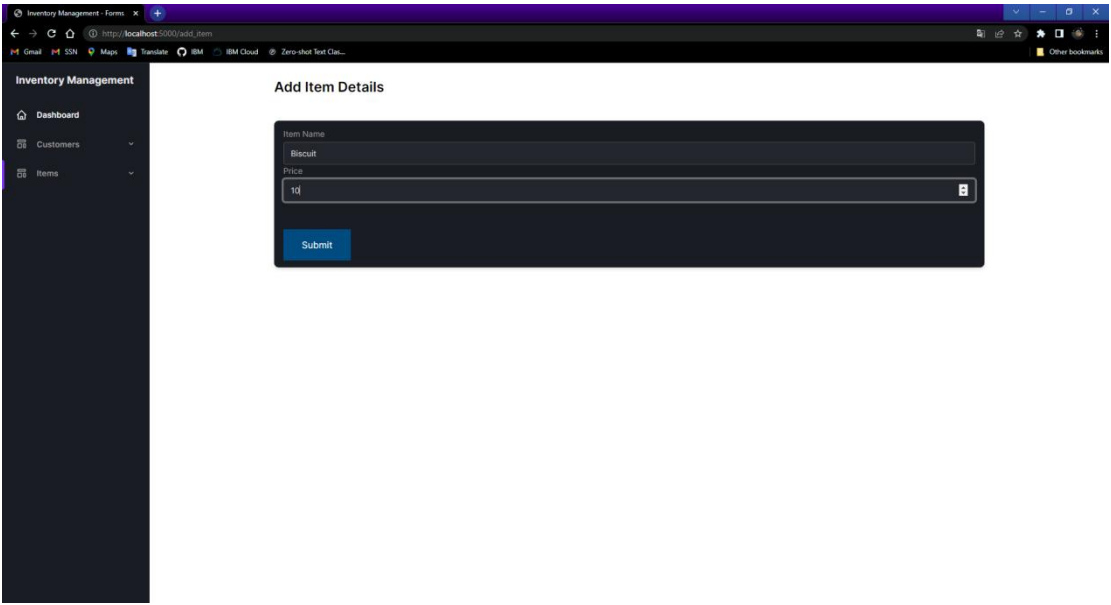
Export to CSV

CUSTOMER_ID	RETAILER_ID	CUSTOMER_NAME
1	1	prasanth
2	2	Vignesh

View Customers:



Add Items:



### Store In Database:

IBM Db2 on Cloud

Load Data

Load History

Tables

Views

Indexes

Aliases

MQTs

Sequences

Application objects

MMV18931.ITEMS

Back

Export to CSV

ITEM_ID	RETAILER_ID	ITEM_NAME	PRICE	LEFT_OUT
2	1	chocolate	10	5
3	1	chocolate	10	0
4	1	apple	25	5
5	2	Biscuit	10	0

### View Items:

Inventory Management - Forms

http://localhost:5000/view\_item

Inventory Management

Dashboard

Customers

Items

View Items

ITEM ID	ITEM NAME	PRICE	LEFT OUT
2	chocolate	10	5
3	chocolate	10	0
4	apple	25	5
5	Biscuit	10	0



## Add Inventory:

The screenshot shows a web browser window with the URL `http://localhost:5000/add_inventory`. The page title is 'Inventory Management - Forms'. On the left, there is a sidebar menu with options: Dashboard, Customers, Items, Inventory (selected), Add Inventory, View Inventory, and Sale. The main content area is titled 'Add Inventory Details' and contains a form with the following fields:

- Item Name: A dropdown menu with 'Biscuit' selected.
- Quantity: A text input field containing the value '10'.
- Stock Date: A date picker showing '27-11-2022'.
- Submit: A blue button at the bottom of the form.

## Store Into Database:

The screenshot shows the IBM Db2 on Cloud console. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected, and the table 'MMV18931.INVENTORY' is displayed. The table structure is as follows:

ITEM_ID	QUANTITY	STOCK_DATE
2	5	2022-11-16
4	10	2022-11-17
5	10	2022-11-27

Additional UI elements include a 'Back' button in the top right, an 'Export to CSV' button in the top right, and a 'SQL' editor icon on the left.

## View Inventory:

The screenshot shows a web browser window with the URL `http://localhost:5000/view_inventory`. The page has a dark sidebar on the left with the title 'Inventory Management' and a menu with options: Dashboard, Customers, Items, Inventory (selected), and Sale. The main content area is titled 'View Inventory' and contains a form with three input fields: 'Item Name' (with a dropdown menu showing 'chocolate'), 'Start Date' (with a date picker showing 'dd-mm-yyyy'), and 'End Date' (with a date picker showing 'dd-mm-yyyy'). Below the form is a table titled 'Inventory' with three columns: 'ITEM NAME', 'QUANTITY', and 'DATE'. The table contains one row with the data: 'Biscuit', '10', and '2022-11-27'.

ITEM NAME	QUANTITY	DATE
Biscuit	10	2022-11-27

## Add Sale:

The screenshot shows a web browser window with the URL `http://localhost:5000/add_sale`. The page has a dark sidebar on the left with the title 'Inventory Management' and a menu with options: Dashboard, Customers, Items, Inventory, and Sale (selected). The main content area is titled 'Add Sale' and contains a form with three input fields: 'Customer' (with a dropdown menu showing 'Vignesh'), 'Item Name' (with a dropdown menu), and 'Quantity' (with a text input field). Below the form is a table titled 'Table' with four columns: 'ITEM NAME', 'PRICE', 'QUANTITY', and 'TOTAL'. The table contains one row with the data: 'Biscuit', '10', '4', and '40'. Below the table is a label 'Amount to be PAID :' followed by a yellow box containing the number '40'. At the bottom of the page is a blue button labeled 'Submit'.

ITEM NAME	PRICE	QUANTITY	TOTAL
Biscuit	10	4	40

Amount to be PAID : 40

Submit

Store into Database:

IBM Db2 on Cloud

Error: Please check network connectivity then try again.

MMV18931.SALE

Back

Export to CSV

SALE_ID	SALE_DATE	CUSTOMER_ID
1	2022-11-17	1
2	2022-11-17	1
3	2022-11-17	2

IBM Db2 on Cloud

Error: Please check network connectivity then try again.

MMV18931.SALE\_ITEMS

Back

Export to CSV

SALE_ID	QUANTITY	ITEM_ID
1	2	4
1	3	4
3	4	5

View sale:

Inventory Management - Forms

http://localhost:5000/view\_sale

Inventory Management

Dashboard

Customers

Items

Inventory

Sale

View Sale

Fill the form

Start Date

14-11-2022

End Date

20-11-2022

Filter

Items

ITEM ID	ITEM NAME	SOLD QUANTITY	AMOUNT
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Inventory Management - Forms

http://localhost:5000/view\_sale

Inventory Management

- Dashboard
- Customers
- Items
- Inventory
- Sale

### View Sale

Fill the form

Start Date  
dd-mm-yyyy

End Date  
dd-mm-yyyy

#### Items

ITEM ID	ITEM NAME	SOLD QUANTITY	AMOUNT
4	apple	5	125
5	Biscuit	4	40

## Downloading the Kubernetes cluster in CMD:

```
C:\Windows\System32\cmd.exe

C:\Users\SSN\Desktop\SSN College\IBM\Project Development Phase\Sprint 4>ibmcloud ks cluster config --cluster cdot3phf0gdgi4i976gg
OK
The configuration for cdot3phf0gdgi4i976gg was downloaded successfully.
Added context for cdot3phf0gdgi4i976gg to the current kubeconfig file.
You can now execute 'kubectl' commands against your cluster. For example, run 'kubectl get nodes'.
If you are accessing the cluster for the first time, 'kubectl' commands might fail for a few seconds while RBAC synchronizes.
```

## Creating the deployment in the Kubernetes:

## Running the Kubectl in web server:

```
C:\Windows\System32\cmd.exe - kubectl port-forward deploy/webserver1 5000:5000

C:\Users\SSN\Desktop\SSN College\IBM\Project Development Phase\Sprint 4>kubectl create deploy webserver1 --image=icr.io/sprint4/sprint4-repo
deployment.apps/webserver1 created

C:\Users\SSN\Desktop\SSN College\IBM\Project Development Phase\Sprint 4>kubectl get nodes
NAME                STATUS    ROLES    AGE   VERSION
10.144.214.211      Ready    <none>   3d10h v1.24.7+IKS

C:\Users\SSN\Desktop\SSN College\IBM\Project Development Phase\Sprint 4>kubectl port forward deploy/webserver1 5000:5000
error: unknown command "port" for "kubectl"

Did you mean this?
  port-forward

C:\Users\SSN\Desktop\SSN College\IBM\Project Development Phase\Sprint 4>kubectl port-forward deploy/webserver1 5000:5000
Error from server (NotFound): deployment.apps "webserver1" not found

C:\Users\SSN\Desktop\SSN College\IBM\Project Development Phase\Sprint 4>kubectl port-forward deploy/webserver1 5000:5000
Forwarding from 127.0.0.1:5000 -> 5000
Forwarding from [::1]:5000 -> 5000
```

