Aim: Manage Multiple Containers Using Docker Compose Setup:

Step 1: Clone the project:

git clone https://github.com/saquibmansuri/react-rust-postgres-sample-project

```
C:\Users\admin\Documents\compose-demo>git clone https://github.com/saquibmansuri/react-rust-postgres-sample-project
Cloning into 'react-rust-postgres-sample-project'...
remote: Enumerating objects: 51, done.
remote: Counting objects: 100% (51/51), done.
remote: Compressing objects: 100% (41/41), done.
remote: Total 51 (delta 4), reused 51 (delta 4), pack-reused 0 (from 0)
Receiving objects: 100% (51/51), 290.79 KiB | 1.63 MiB/s, done.
Resolving deltas: 100% (4/4), done.

C:\Users\admin\Documents\compose-demo>
```

Step 2: Deploy with Docker Compose:

docker compose up -d

```
[+] Running 9/9

√ backend

                                                              Built

√ frontend

                                                              Built
✓ Network react-rust-postgres-sample-project_client-side
                                                              Created
✓ Network react-rust-postgres-sample-project_server-side
                                                              Created
✓ Volume "react-rust-postgres-sample-project db-data"
                                                              Created
✓ Volume "react-rust-postgres-sample-project_backend-cache" Created

√ Container react-rust-postgres-sample-project-frontend-1

                                                              Started

√ Container react-rust-postgres-sample-project-db-1

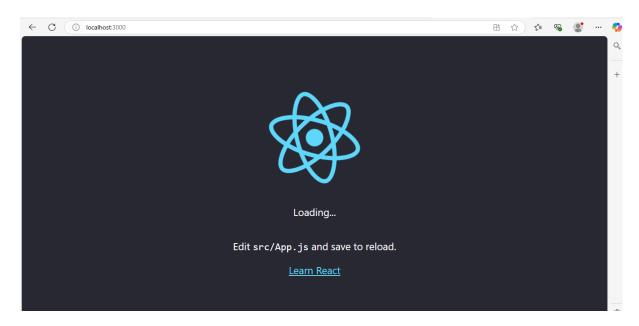
                                                              Started
 ✓ Container react-rust-postgres-sample-project-backend-1
                                                              Started
```

Step 3: Verify the Deployment:

docker ps



Step 4: Access the Application:



Step 5: Modify App and rebuild particular service:

Before Modifying the Frontend:



After Modifying:

docker compose up -d --force-recreate --no-deps --build frontend

Step 6: Stop and Remove the Containers:

```
C:\Users\admin\Documents\compose-demo\react-rust-postgres-sample-project>docker compose down

[+] Running 5/5

\times Container react-rust-postgres-sample-project-backend-1 Removed

\times Container react-rust-postgres-sample-project-db-1 Removed

\times Container react-rust-postgres-sample-project_client-side Removed

\times Network react-rust-postgres-sample-project_client-side Removed

\times Network react-rust-postgres-sample-project_server-side Removed

C:\Users\admin\Documents\compose-demo\react-rust-postgres-sample-project>
```

```
C:\Users\admin\Documents\compose-demo\react-rust-postgres-sample-project>docker system prune -af --volumes
Deleted Containers:
e108d03539b5511882781ea6f01186283896f527d28fee6f4780a94e462ed69e
351efdf6eb8dfdb720ba1b4f749112c7437aa1343d81473a5aff182e92acbdbc
77f92f8bdaccdcb4bfd4b9d97abf49dfebc40b4de012d91e8e5ae31fe27564f4
33999f190732ef52fe9e22510684cf9fcd5aae3321d9a53e70d22e4c31d79444
bc60f4728caeca572b422125d1572f70a6056cf6df5908c3fdf97963ea35e6c8
cfc39bfb0bd6ec3d983cbcdb5729458f75e25ab81ee5743bcff2ab97827b16fa
69375f89e07b44e603e2e705e95caefcc4279e79d3a13139116c8059d3355260
cc8d38a65d4ed8e2a05e2fce86a17698bb2976857d2c31b1a56da1e3d6ed1da1
78f80ef455aa0b8cb9eb3bf796463008f47da9b3ab5ebbd1cc860b22c03d871b
```