Task 2

Introduction

As a part of a cutting-edge technology team of an innovative company, I am responsible for designing, developing and securing a modern ecommerce-application that promises to shape the landscape of online shopping we do. My journey began with setting up the initial infrastructure for the project that includes creating a Kubernetes cluster on GKE (Google Kubernetes Engine) which provides us all the computing resources to host our application.

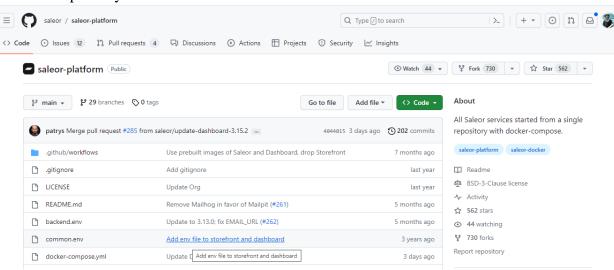
In my journey to create a modern ecommerce application, I now dive into creating the application and deploying it. My objectives in this phase is to be familiarize with the different components of the project such as Saleor API, Saleor Storefront, Saleor Dashboard and the platform. Next, forking the repository, running the application, tailoring the compose file and coming & pushing our modifications are my other objectives.

Following is the step-by-step guide of the process.

Task 1: Forking the Saleor Platform Repository

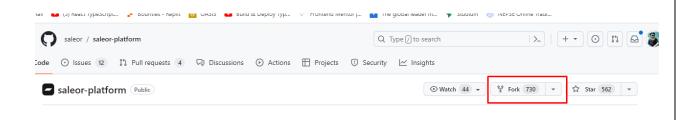
Forking the project allows me to work on my own copy of the project. To fork the project:

a) Go to the repository

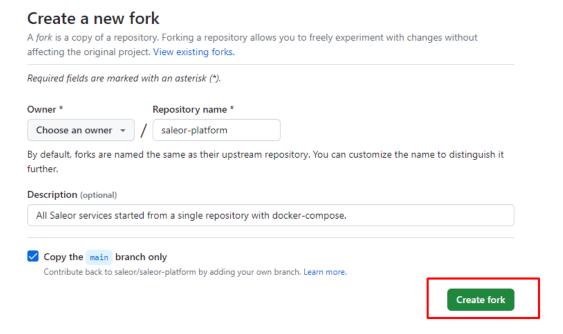


This is the GitHub repo of the Saleor Platform.

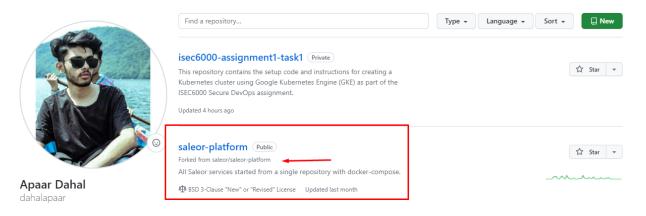
b) Click on "Fork" button.



c) Give the repository name and click "Create Fork"



You can see your forked repository in your repositories section of your GitHub



Task 2: Clone the repository

To clone the repository run the following command in your terminal:

git clone https://github.com/saleor/saleor-platform.git

```
vboxuser@ISEC6000:~/Documents$ git clone https://github.com/saleor/saleor-platform.git
Cloning into 'saleor-platform'...
remote: Enumerating objects: 565, done.
remote: Counting objects: 100% (202/202), done.
remote: Compressing objects: 100% (126/126), done.
remote: Total 565 (delta 113), reused 149 (delta 70), pack-reused 363
Receiving objects: 100% (565/565), 156.83 KiB | 233.00 KiB/s, done.
Resolving deltas: 100% (296/296), done.
```

Now, you can see the cloned project on your computer



Task 3: Build the application

Go to the cloned directory and type "docker compose build" command in your terminal and hit enter. This command will build the Docker images for the services defined in the Docker Compose file.

```
vboxuser@ISEC6000:~/Documents$ cd saleor-platform/
vboxuser@ISEC6000:~/Documents/saleor-platform$ docker compose build
[+] Building 0.0s (0/0)
vboxuser@ISEC6000:~/Documents/saleor-platform$
```

Task 4: Apply Django Migration

In this step, we are synchronizing the database structure with the changes we have made to our Django database models. To do so, run the following command in your terminal.

docker compose run --rm api python3 manage.py migrate

```
eor-platform$ sudo docker compose run --rm api python3 manage.py migrate
[sudo] password for vboxuser:
[+] Creating 3/0

Container saleor-platform-db-1
✓ Container saleor-platform-redis-1
 ✓ Container saleor-platform-jaeger-1 Running
+] Running 8/16
                                   ] 392.3kB/39.01MB Pulling
   ✓ 52d2b7f179e3 Already exists
✓ 2b8a9a2240c1 Already exists
   ✓ 718c5c9f67cd Already exists

√ a21e3e8b7a53 Already exists

   ✓ 26e388236cc7 Already exists
     f5aa3159d1f5 Already exists
   "87be44d8c847 Downloading [>
                                                                                         ] 392.3kB/39.01MB

✓ 3f69edd7b932 Download complete

    896e81269ec8 Download complete
    df577591a281 Waiting
    3569a87eff28 Waiting
   af11cd630f57 Waiting
     d43c9a620f9e Waiting
   "4f4fb700ef54 Waiting
   "fb8ec7de64b0 Waiting
```

Task 5: Populate the database with example data and create the admin user

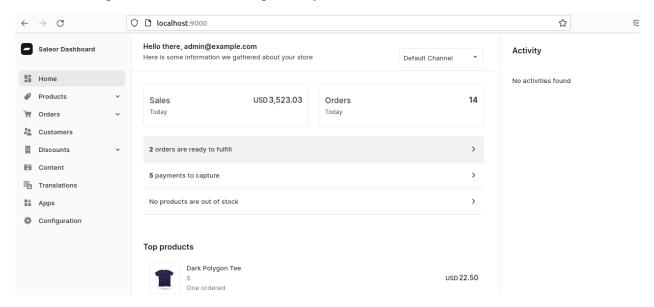
To populate the database, type the following command in your terminal

docker compose run --rm api python3 manage.py populatedb -createsuperuser

Task 6: Run the application

To run the services of application, type docker compose up on your terminal.

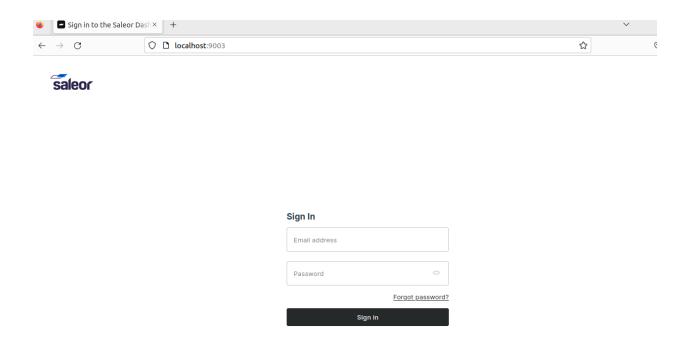
The application is ready. Dashboard will be running at localhost:9000 port. Similarly, API and UI will run in port 8000 and 16686 respectively.

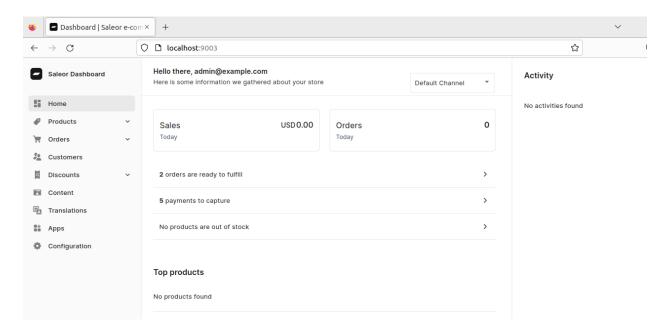


Changing ports as our scenario.

As a DevOps team member my responsibility is to run the application in different ports. The dashboard of application should run in port 9003.

To do so we have to make some changes in our yml file of the project.





We can see above that our dashboard is running in 9003 port which was required to do as a task.

NOTE: THE LINK TO MY GITHUB REPO IS https://github.com/dahalapaar/isec6000-assignment1-task2