# Business Process Automation Lab Demonstrator 2

(Guided Project)

## A quick guide to install and start the project

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**TH Köln - Campus Gummersbach**

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Technology
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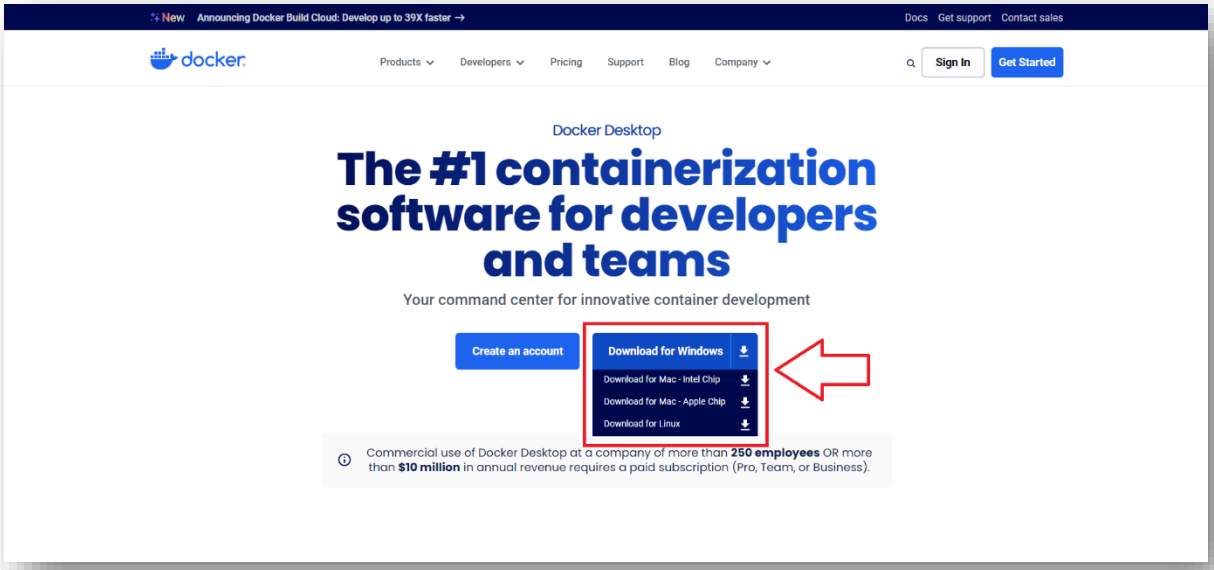
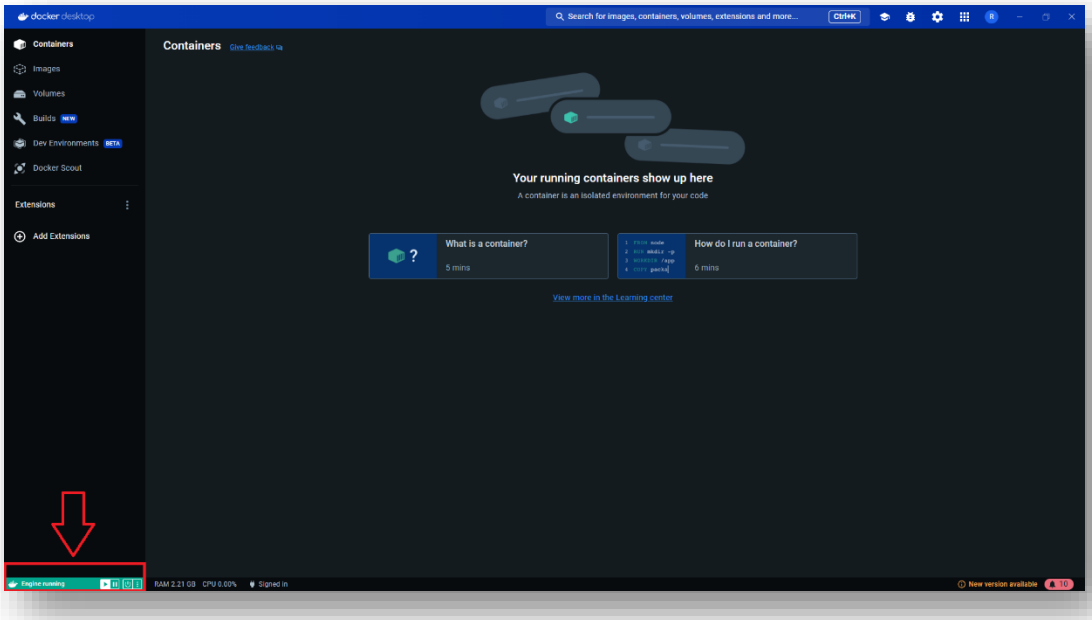
# Welcome to the quick start guide for the BPA Lab Bicycle Factory Demonstrator

***STEP 1:***
*Download the Docker desktop application based on your system preference.*

*Link to download Docker desktop:* https://www.docker.com/products/docker-desktop/

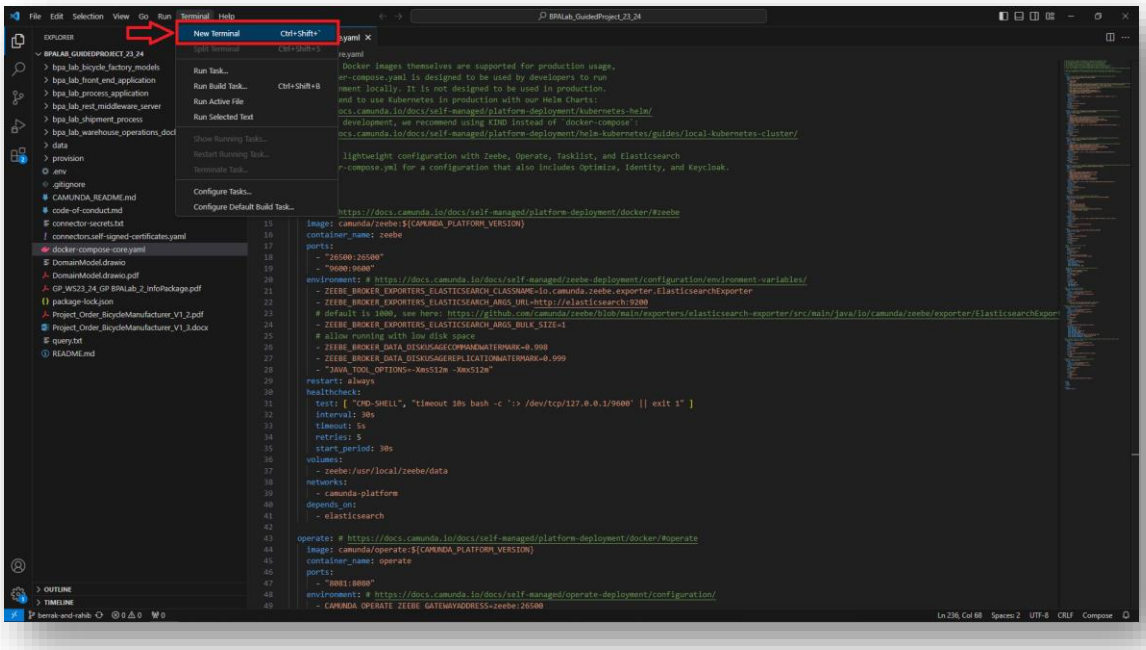



***STEP 2:***
*Start the Docker desktop application on your system and wait till the Docker engine is up and running inside the application.*



***STEP 3:***

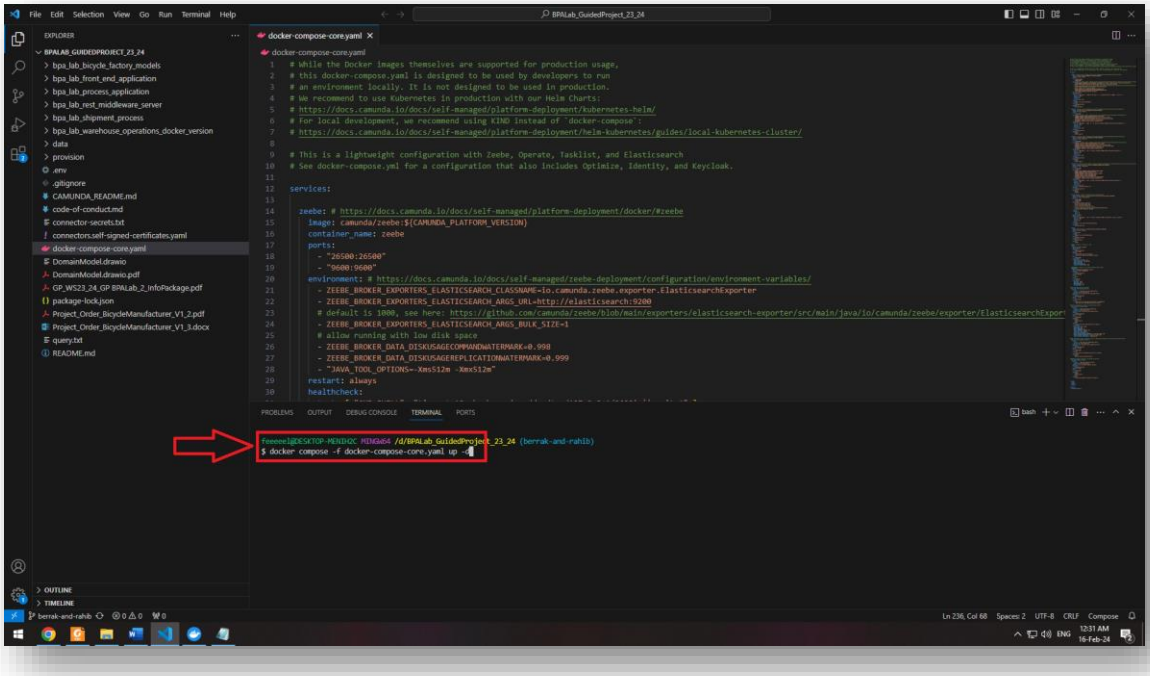
*Open the project in any code editor as per your choice for example Visual Studio Code and open a new terminal.*




***STEP 4:***

*Copy the following command and run the docker-compose-core.yaml from the root directory of the project. Wait for the command to be executed completely. It will automatically pull all the required images, create the containers and start them inside your Docker desktop.*

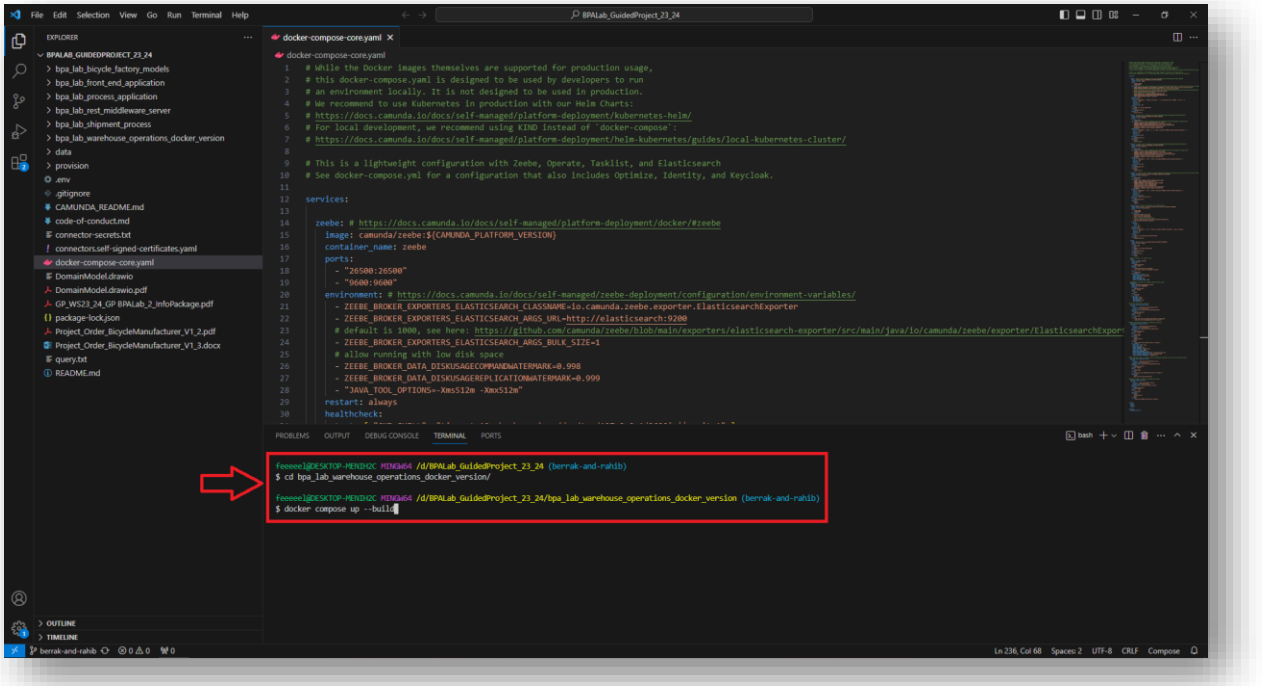
*Command:* ***docker compose -f docker-compose-core.yaml up -d***



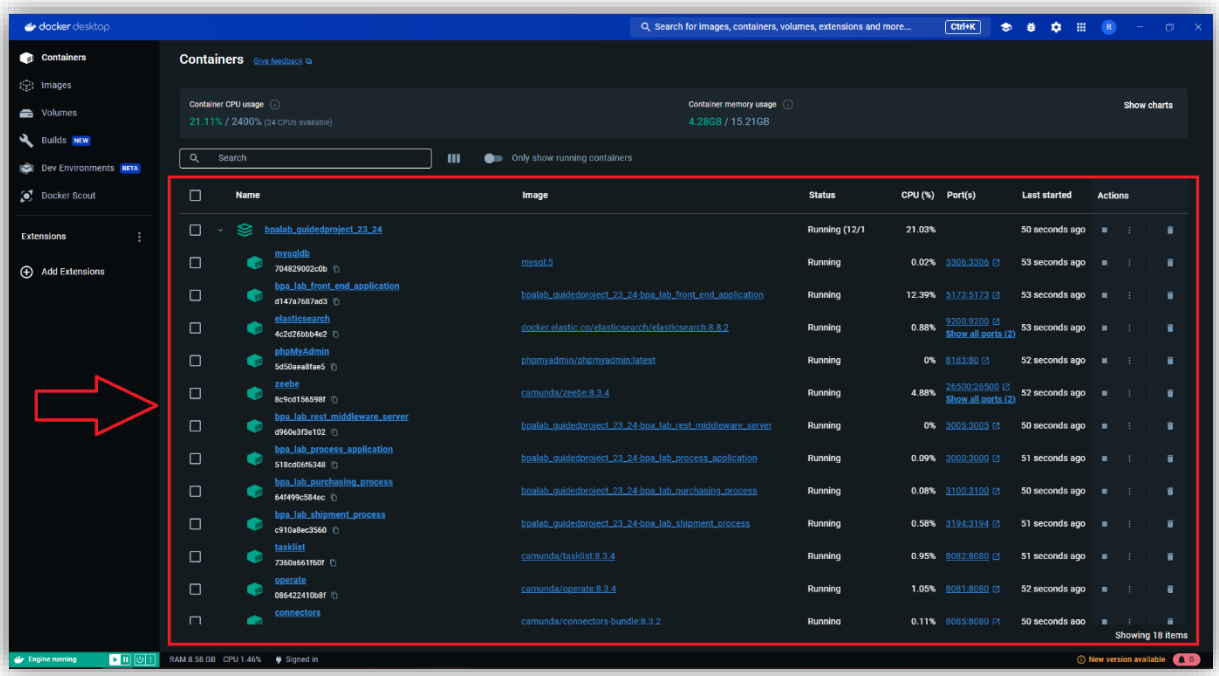
***STEP 5:***

*Once all the containers are up and running, now change the directory to bpa_lab_warehouse_operations_docker_version and run the docker-compose.yml using the following command. This will automatically pull all the required images, create the containers and start them inside your Docker desktop application. This is for the Warehouse Operations.*

*Command:* ***docker compose up --build***



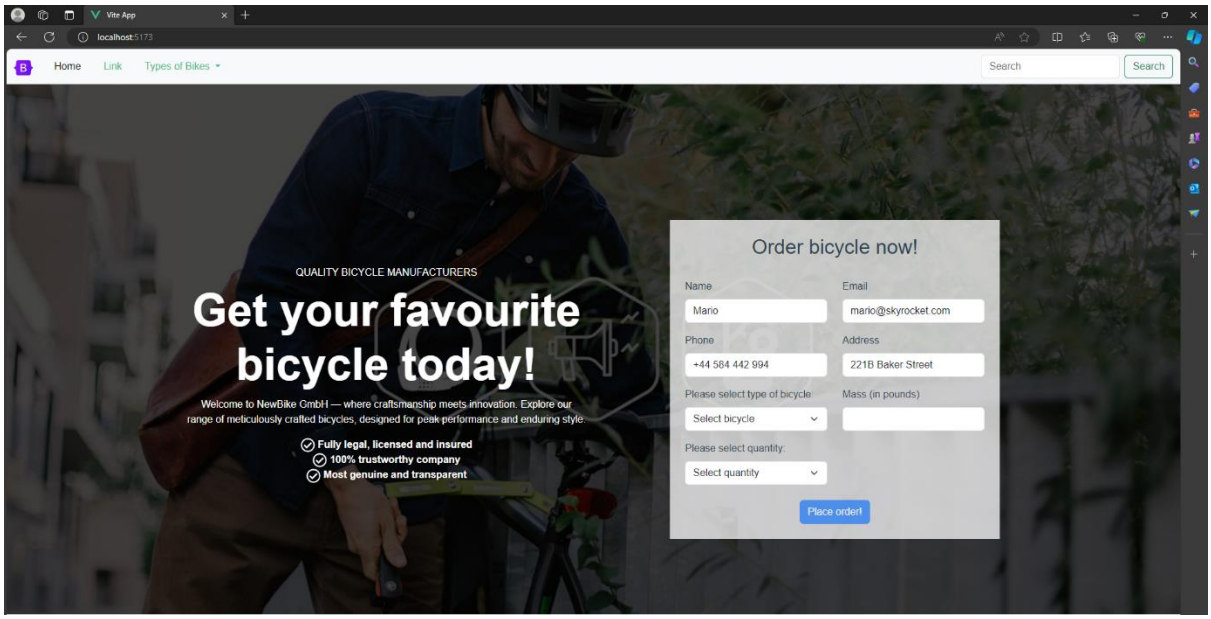

*If all the containers are created successfully (green), you should be able to see something like this in your Docker desktop application:*



***STEP 6:***
*Now lets go through the ports and access the required containers:*

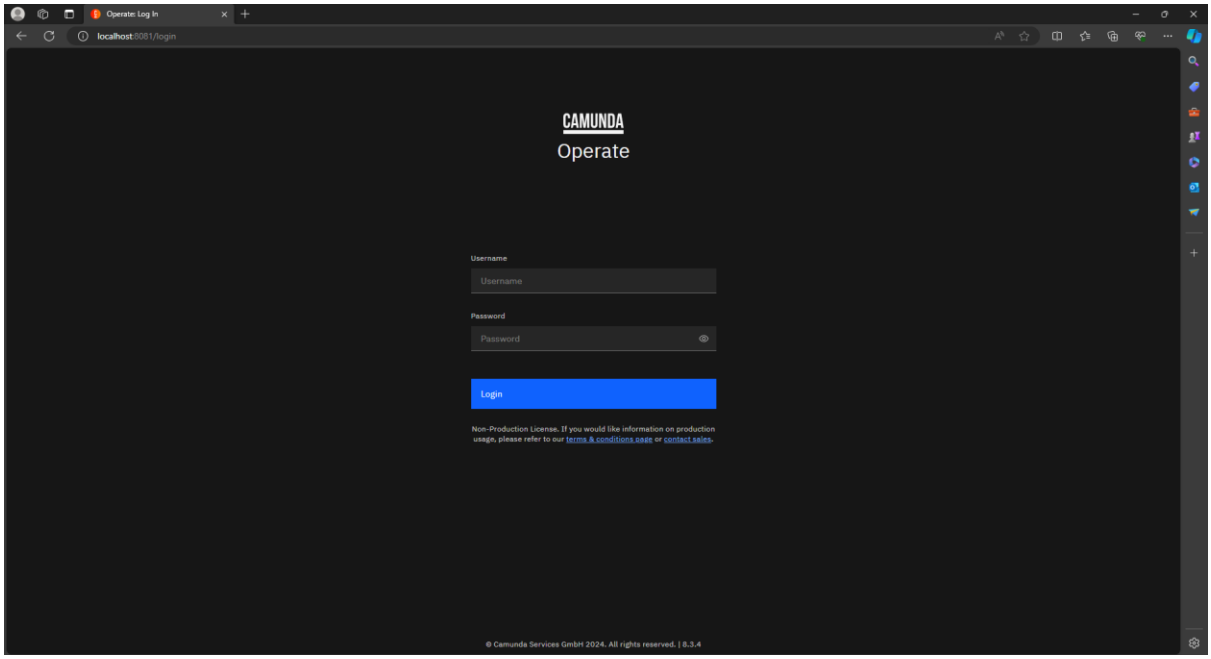
***Required containers***

***Front-end application:*** *http://localhost:5173*



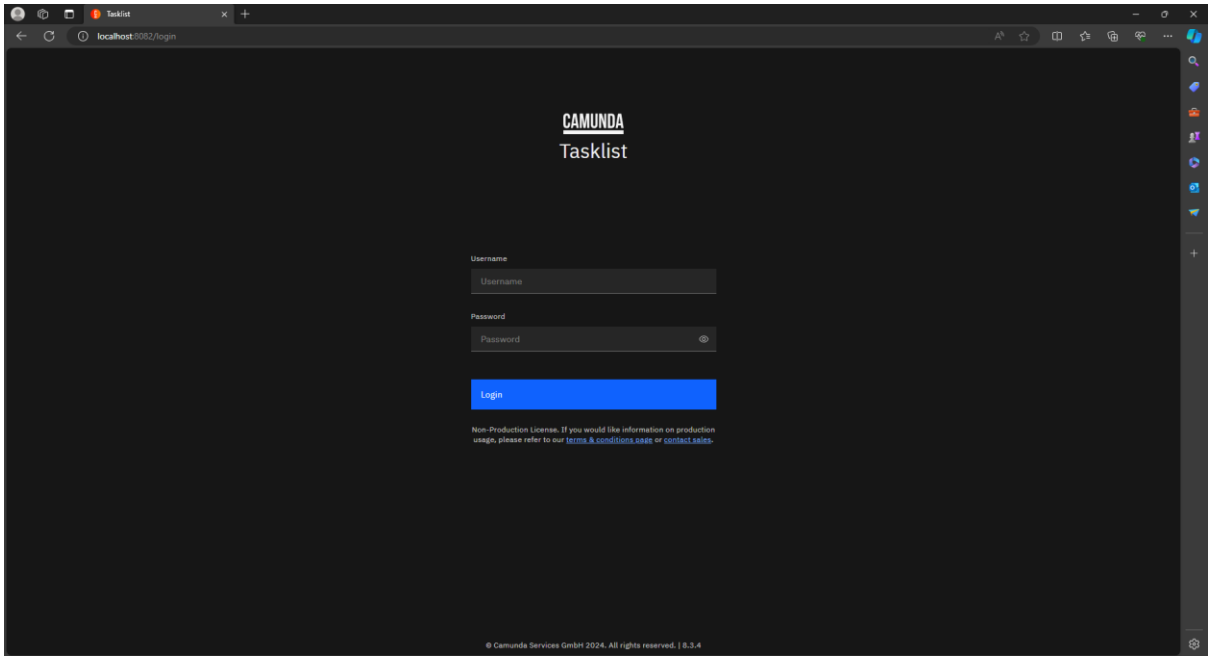

***Camunda Operate:*** *http://localhost:8081*

***Username:*** *demo*
***Password:*** *demo*

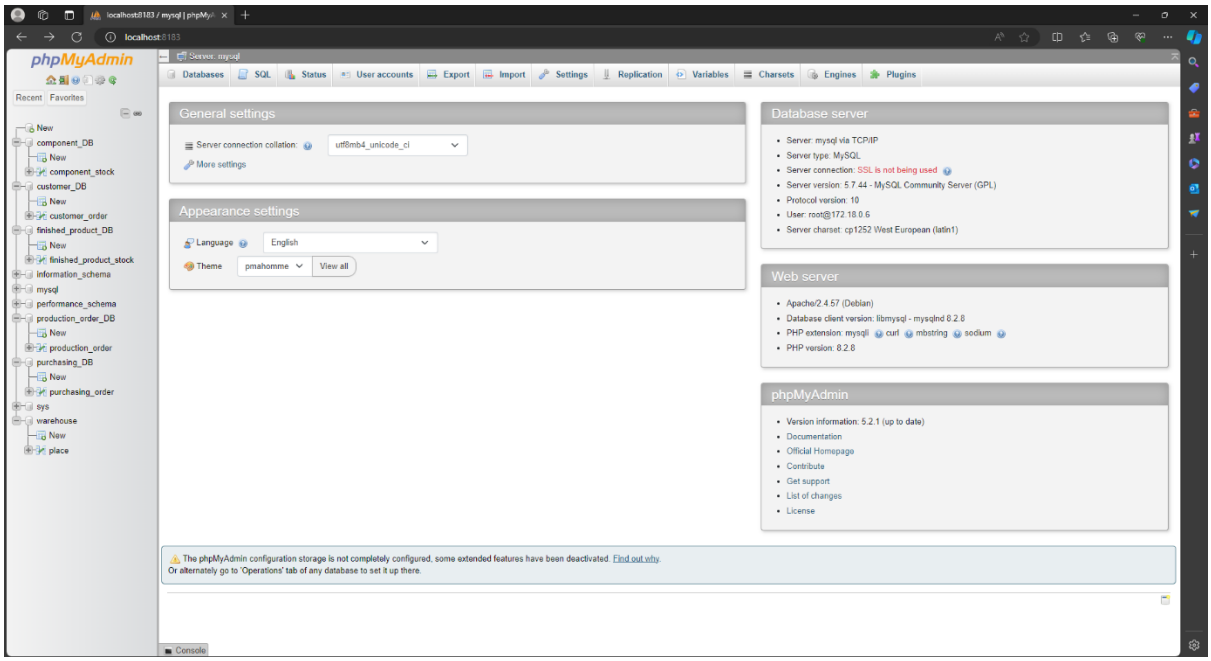


***Camunda Tasklist:*** *http://localhost:8082*

***Username:*** *demo*
***Password:*** *demo*




***phpMyAdmin MySQL:*** *http://localhost:8183*



***Other containers***

***Camunda Zeebe:*** *Running on port: 26500*

***Camunda Elasticsearch:*** *Running on port: 9200*

***Camunda Connectors:*** *Running on port: 8085*

***MySql Database:*** *Running on port: 3306*

***BPA Lab REST Middleware Server:*** *Running on port: 3005*

***BPA Lab Process Application:*** *Running on port: 3000*

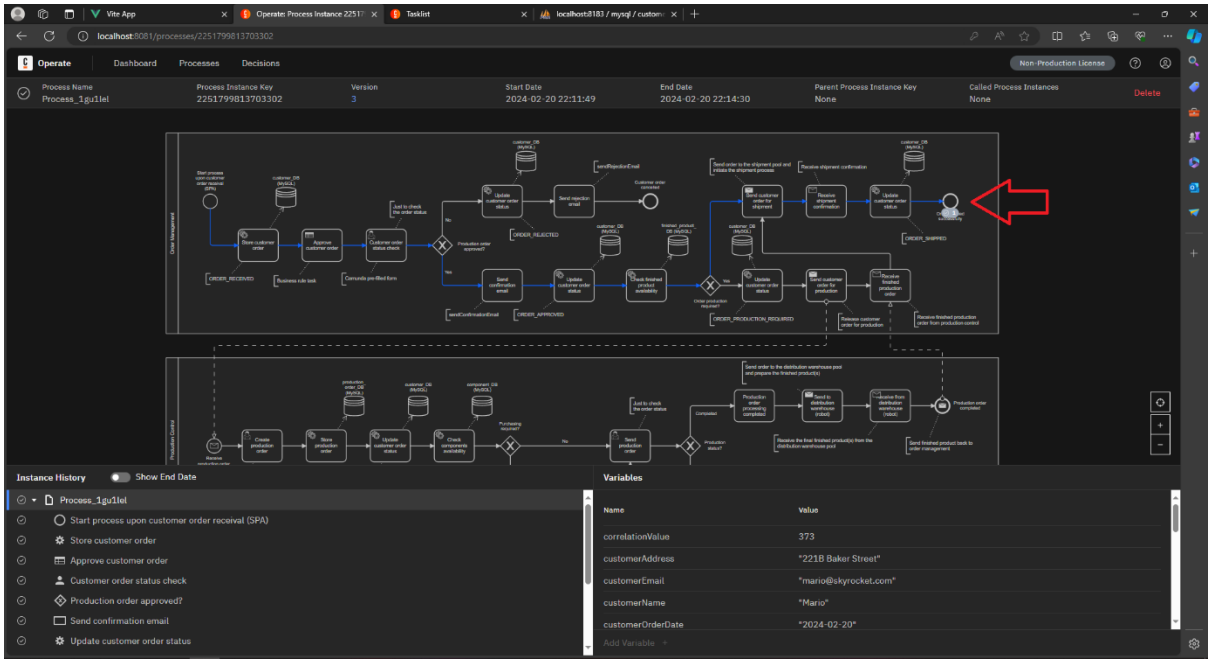
***BPA Lab Purchasing Process:*** *Running on port: 3100*

***BPA Lab Shipment Process:*** *Running on port: 3194*

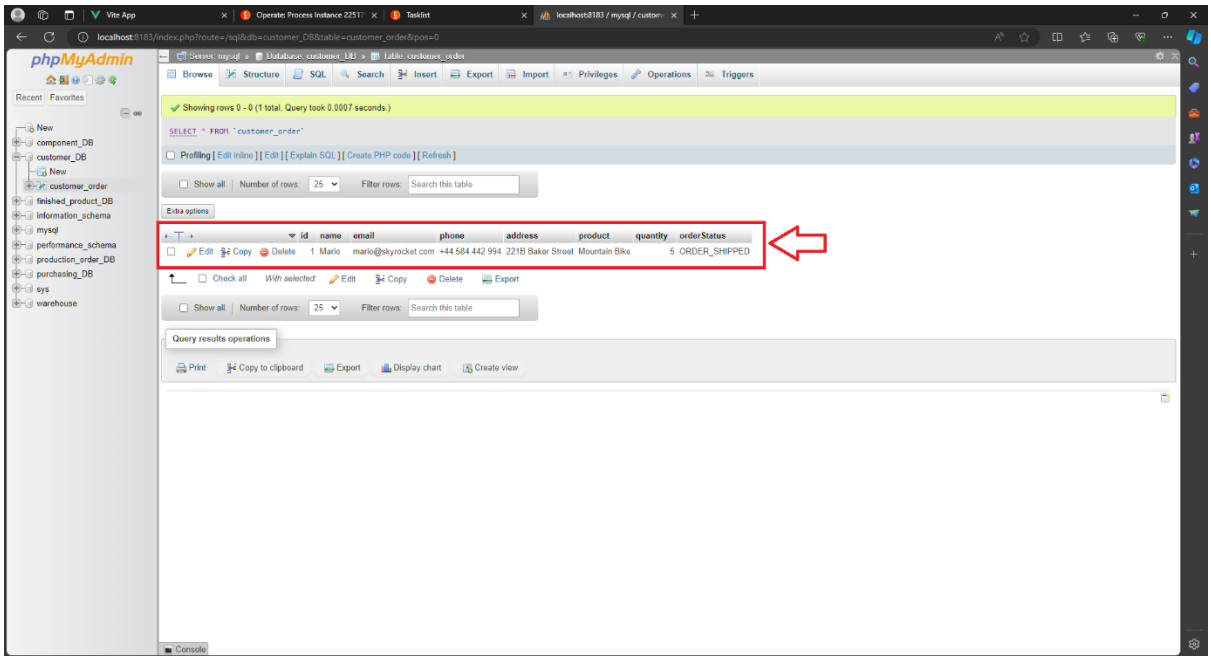
***MQTT Broker:*** *Running on port: 2020*

***MySql Database (Warehouse Operations):*** *Running on port: 3333*

***STEP 7:***
*Place an order from the front-end application in order to start the process instance and track the process inside Operate:*



*The customer order is being stored inside the database and its state changes as the process instance progresses forward:*

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