Mini projet docker:

Création du dockerfile

```
ROM amazoncorretto:17-alpine
LABEL maintainer="netvthib@gmail.com"
WORKDIR /app
COPY target/paymybuddy.jar /app/paymybuddy.jar
EXPOSE 8080
ENTRYPOINT ["java","-jar","/app/paymybuddy.jar"]
```

Création de l'image

#docker build -t paymybuddy-backend:v1.

```
user@Ubuntu:~/eazytraining_mini-projet/bootcamp-project-update/mini-projet-docker$ docker images
REPOSITORY
                                  IMAGE ID
                                                 CREATED
                    8.0.43
                                  94753e67a0a9
                                                 2 days ago
                                                                 780MB
mysql
                                  941ba5b9eca8
                                                 3 days ago
paymybuddy-backend
                                                                334MB
                    2.4-alpine
httpd
                                 413c1ac706f8
                                                 2 months ago
                                                                64.6MB
```

Création du docker-compose.yml

```
ser@Ubuntu:~/eazytraining mini-projet/bootcamp-project-update/mini-projet-docker$ cat docker-compose.yml
mysql:
  image: mysql:8.0.43
    MYSQL_DATABASE: ${MYSQL_DATABASE}
    MYSQL_ROOT_PASSWORD: ${MYSQL_ROOT_PASSWORD}
    - db data:/var/lib/mysql
       ./initdb:/docker-entrypoint-initdb.d:ro
    test: ["CMD-SHELL", "mysqladmin ping -h 127.0.0.1 -p${MYSQL_ROOT_PASSWORD} || exit 1"]
    timeout: 3s
    start_period: 20s
   image: paymybuddy-backend:v1
   restart: always
   depends_on:
      condition: service healthy
    - "8080:8080"
   environment:
    SPRING APPLICATION JSON: >
         "server.port": ${SERVER_PORT},
         "spring.datasource.url": "${SPRING_DATASOURCE_URL}",
         "spring.datasource.username": "${SPRING_DATASOURCE_USERNAME}",
"spring.datasource.password": "${SPRING_DATASOURCE_PASSWORD}",
         "spring.jpa.database-platform": "org.hibernate.dialect.MySQL8Dialect"
olumes:
db data:
```

Création du fichier .env avec les variables

```
user@Ubuntu:~/eazytraining_mini-projet/bootcamp-project-update/mini-projet-docker$ cat .env

# --- MySQL ---
MYSQL DATABASE=db_paymybuddy
MYSQL_ROOT_PASSWORD=password

# --- Spring (backend) ---
SPRING_DATASOURCE_URL=jdbc:mysql://mysql:3306/db_paymybuddy?useSSL=false&allowPublicKeyRetrieval=true&serverTimezone=UTC
SPRING_DATASOURCE_USERNAME=root
SPRING_DATASOURCE_PASSWORD=password
SERVER_PORT=8080
```

Modification du create.sql de initdb avec ajout de IF NOT EXISTS.

Sinon l'application ne se connecte pas à db_paymybuddy car la base de donnée est déjà existante.

```
eazytraining_mini-projet/bootcamp-project-update/mini-projet-docker/initdb$ cat create.sql
CREATE DATABASE IF NOT EXISTS db_paymybuddy;
USE db paymybuddy;
CREATE TABLE IF NOT EXISTS `user` (
    user id INT NOT NULL PRIMARY KEY AUTO INCREMENT,
     email VARCHAR(100) NOT NULL UNIQUE,
    firstname VARCHAR(50) NOT NULL,
lastname VARCHAR(50) NOT NULL,
balance DECIMAL(10, 2) NOT NULL DEFAULT 0.0
CREATE TABLE IF NOT EXISTS 'bank account'
     account_id INT NOT NULL AUTO_INCREMENT,
     fk_user_id INT NOT NULL,
     bank_name VARCHAR(100) DEFAULT NULL,
    balance DECIMAL(20,2) NOT NULL DEFAULT 0.0,
PRIMARY KEY (account id, fk_user_id),
FOREIGN KEY (fk_user_id)
REFERENCES user (user_id)
          ON DELETE NO ACTION ON UPDATE NO ACTION
CREATE TABLE IF NOT EXISTS `connection` (
    connection id INT NOT NULL AUTO_INCREMENT,
    fk_initializer_id INT NOT NULL,
    fk_receiver_id INT NOT NULL,
     starting date DATETIME NOT NULL,
     FOREIGN KEY (fk initializer id)
```

#les 2 containers actifs suite au docker compose up

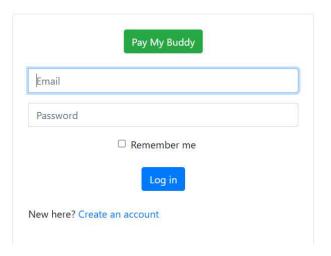
```
user@Ubuntu:~$ docker ps

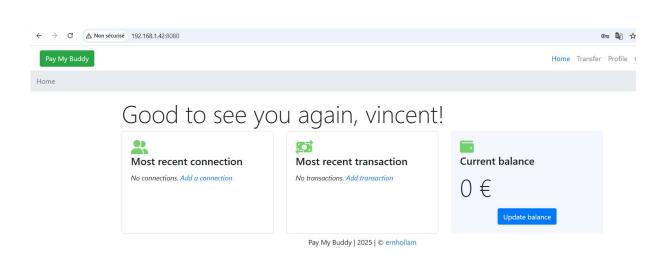
CONTAINER ID IMAGE COMMAND CREATED

79aa83ec01da mysq1:8.0.43 "docker-entrypoint.s..." 6 minutes ago

274a7b91a97f paymybuddy-backend:v1 "java -jar /app/paym..." 7 minutes ago
```

```
PORTS NAMES
3306/tcp, 33060/tcp mini-projet-docker-mysql-1
0.0.0.0:8080->8080/tcp, [::]:8080->8080/tcp mini-projet-docker-backend-1
```

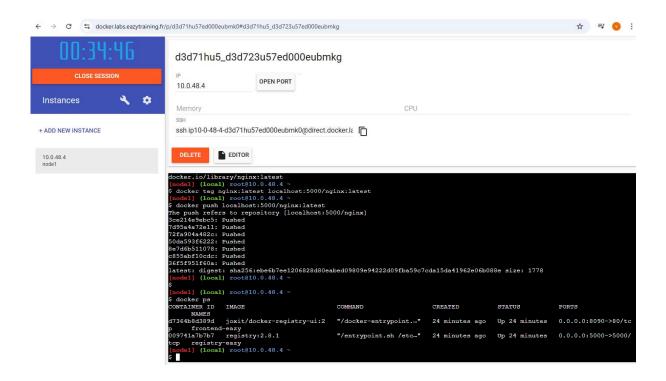




Private registry sur docker play eazytraining

Installation du registre privé

```
$ docker network create eazy
63bcd816f7500a47a6f1f2a6c3392638e21479f1ed0cf1d39959dc8aa1bb8ac7
 node1] (local) root@10.0.48.4 ~
 docker run -d \
 -p 5000:5000 \
  --net eazy \
 --name registry-eazy \
 registry:2.8.1
Unable to find image 'registry:2.8.1' locally
2.8.1: Pulling from library/registry
8a49fdb3b6a5: Pull complete
58116d8bf569: Pull complete
55f7fac5d815: Pull complete
fe88d67f473c: Pull complete
32a19664cea7: Pull complete
Digest: sha256:dbaa3e69f563fc146f3337eb9de422f74f6765bf0203c891ddfbd74a6f9b56eb
Status: Downloaded newer image for registry:2.8.1
009741a7b7b774a36a0886fee188681e395cd14cde814548f907e9836695c20a
    el] (local) root@10.0.48.4 ~
 docker run -d \
 -p 8090:80 \
  --net eazy \
 -e NGINX_PROXY_PASS_URL=http://registry-eazy:5000 \
  -e DELETE IMAGES=true \
  -e REGISTRY_TITLE=eazytraining \
  --name frontend-eazy \
 joxit/docker-registry-ui:2
d7364b8d389d6f798f8466907ab9e6b937ade3ac91dea87f5552b6357d8aa7e7
node1] (local) root@10.0.48.4 ~
```



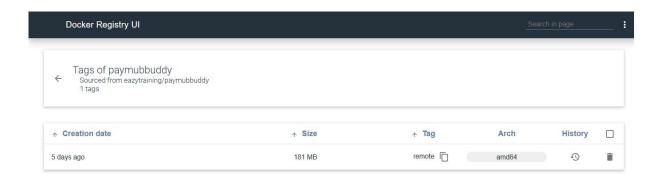
```
user@Ubuntu:~/eazytraining_mini-projet/bootcamp-project-update/mini-projet-docker$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
mysql 8.0.43 94753e67a0a9 5 days ago 780MB
paymybuddy-backend vl 941ba5b9eca8 5 days ago 334MB
httpd 2.4-alpine 413clac706f8 2 months ago 64.6MB
```

#docker tag paymybuddy-backend:v1 ip10-0-48-4-d3d71hu57ed000eubmk0-5000.direct.docker.labs.eazytraining.fr/paymubbuddy:remote

#docker push ip10-0-48-4-d3d71hu57ed000eubmk0-5000.direct.docker.labs.eazytraining.fr/paymubbuddy:remote

```
user@Unburtu: /eazytraining_mini-projet/bootcamp-project-update/mini-projet-docker$ docker tag paymybuddy-backendiv1 ip10-0-48-4-d3d7lhu57ed000eubmk0-5000.direct.docker.labs.eazy
training.fr/paymubbuddy:remote
user@Unburtu-/eazytraining_mini-projet/bootcamp-project-update/mini-projet-docker$ docker push ip10-0-48-4-d3d7lhu57ed000eubmk0-5000.direct.docker.labs.eazytraining.fr/paymubbuddy
tdy:remote
The push refers to repository [ip10-0-48-4-d3d7lhu57ed000eubmk0-5000.direct.docker.labs.eazytraining.fr/paymubbuddy]
c248e67b26e1: Pushed
d262ddd1637: Pushed
d4b7207le0f1: Pushed
d4b7207le0f1: Pushed
d4Bdc2b7d58: Pushed
d4Bdc2b7d58: Pushed
d8Bdc2b7d58: Pushed
```





Pour l'image de mysql:8.0.43

#docker tag mysql:8.0.43 ip10-0-48-4-d3d71hu57ed000eubmk0-5000.direct.docker.labs.eazytraining.fr/mysql:remote

docker push ip10-0-48-4-d3d71hu57ed000eubmk0-5000.direct.docker.labs.eazytraining.fr/mysql:remote

