Docker Guide

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2023-04-27

1. **Install Git.**
   change to the directory where you will clone the repository using
   -git clone https://gitlab.fit.cvut.cz/rybolzde/household-web.git

```
git clone https://gitlab.fit.cvut.cz/rybolzde/household-web.git household-application
```

2. **Install Docker.**

3. **Login with credentials.**

```
Docker login
```

4. **For starting the application with new jar file and with new database**(it will use volumes existing in (/var/lib/postgresql/data)):

```
docker-compose up
```

(which will download postgres:13, set database details, build the app using maven 3.8.3:opnejdk-17, store app, database data in volume and finally run the app)which can be accessed at https://localhost:8080/

5. **For existing database, starting application with new jar file.**

to start a database from existing database located in a directory (location of the data directory)(skip this step if you have database container and its running)
-docker run –name (required-container-name) -e POSTGRES_USER=(required database username) -e POSTGRES_PASSWORD=(required database password) -d -p 5432:5432 -v (location of the data directory):(location where data will be stored in docker) postgres:13

```
docker run --name household-postgres
-e POSTGRES_USER=postgres
-e POSTGRES_PASSWORD=postgres -d -p 5432:5432
-v <location of the data directory>:/var/lib/postgresql/data postgres:13
```

to link with existing and running database container in docker

-sudo docker build (household-container name):(tag) .
-sudo docker run –name (required-app-container-name) -p 8080:8080 –link (name of database container) -e SPRING_DATASOURCE_URL=jdbc:postgresql://(hostname):5432/(existing database name) -e SPRING_DATASOURCE_USERNAME=(existing database username) -e SPRING_DATASOURCE_PASSWORD=(existi
database password) (required application container name):(container tag)

```
docker build household-application:latest .
```

```
docker run --name household-application -p 8080:8080
--link household-postgres
-e SPRING_DATASOURCE_URL=jdbc:postgresql://postgresql:5432/postgres
-e SPRING_DATASOURCE_USERNAME=postgres
-e SPRING_DATASOURCE_PASSWORD=postgres household-application:latest
```

6. **For using existing database and existing application container**

   -sudo docker run –name (required-app-container-name) -p 8080:8080 –link (name of database container) -e SPRING_DATASOURCE_URL=jdbc:postgresql://(hostname):5432/(existing database name) -e SPRING_DATASOURCE_USERNAME=(existing database username) -e SPRING_DATASOURCE_PASSWORD=(existing database password) (required application container name):(container tag)

```
docker run --name household-application -p 8080:8080 --link <name of database container>
-e SPRING_DATASOURCE_URL=jdbc:postgresql://<hostname>:5432/<existing database name>
-e SPRING_DATASOURCE_USERNAME=<existing database username>
-e SPRING_DATASOURCE_PASSWORD=<existing database password>
<application container name>:<tag>
```