Installation Guide

The code repository is public and available here:
https://github.com/WebServices-G09/dtu-pay-final.

The Jenkins and Andon board is available here: http://fm-09.compute.dtu.dk:8282/
The Jenkins credentials are:

- Username: huba
- Password: SwDoWS09

Prerequisites

- JDK 21: Ensure JDK 21 is installed and set up in your environment.
- Maven: Make sure Maven is installed and added to your system's PATH.
- Docker: Install Docker and Docker Compose on your machine.

Run the project using the script

To run the project locally you have to run the ./build_and run.sh bash script in the root folder of the project. The script will install the message-utilities-3.4.2 module and generate the jar file for the following modules:

- AccountManagement
- DTU-Pay-Server
- PaymentManagement
- ReportingManagement
- TokenManagement

After building the jar file the script file will build and run the docker-compose file in the root folder which will start all the services in a docker container. The services are dependent on the rabbitMq service, and a health check has been configured to wait for the rabbitMq before starting up. While building the docker images, the service tests configured for the various modules will also run. The final step of the script will run the end-to-end Cucumber tests configured in the Client module.

Run the project manually

To run the project manually first we have to install the message-utilities-3.4.2 module running the command:

- mvn -f ./messaging-utilities-3.4.2/pom.xml clean install

Then we need to build and generate the jar files for all the modules:

- mvn -f ./DTU-Pay-Server/pom.xml clean package
- mvn -f ./AccountManagement/pom.xml clean package
- mvn -f ./TokenManagement/pom.xml clean package
- mvn -f ./PaymentManagement/pom.xml clean package
- mvn -f ./ReportingManagement/pom.xml clean package

Then we need to start the services in a docker container using the commands:

- docker compose build
- docker compose up -d

Now we finally can run the end-to-end Cucumber tests:

- mvn -f ./Client clean test