



02267

SOFTWARE DEVELOPMENT OF WEB SERVICES

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# DTU Pay - Installation Manual

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## 1 Requirements and dependencies

To run the DTU Pay project on your machine, you will need to have several software components installed. These dependencies include:

- Java JDK v11 - which is the development kit used for creating and running Java applications
- Maven v3.8.7, which is a build automation tool used for managing dependencies and building the project.
- Docker v20.10.7 - a platform for developing, shipping, and running applications in containers.

Together, these software components will provide the necessary environment to run the DTU Pay project on your machine.

## 2 GitLab

To connect to the GitLab repository located at <https://gitlab.gbar.dtu.dk/s214018/DTUPay>, you will first need to have a GitLab account. Once you have an account, you can access the repository by visiting the provided URL in your web browser.

### 2.1 Clone

If you wish to clone the repository to your local machine, you can do so by using the command

```
git clone https://gitlab.gbar.dtu.dk/s214018/DTUPay.git
```

This will create a copy of the repository on your local machine, allowing you to access the files and make changes.

## 3 Build And Deploy

Following the steps for cloning the GitLab repository locally in section 2.2 we can now enter the repository

```
cd DTUPay
```

Check if the docker software is running on your machine and run the ‘**build\_and\_run.sh**’ script

```
sh ./build_and_run.sh
```

This builds all the services one-by-one and ensures everything is built fresh (including changes).

## 4 End-to-end tests and JUnit services test

The cucumber TDD tests automatically run after all the services have started. But can always run manually from the folder. The end-to-end tests run automatically on service build.

### 4.1 Jenkins

Additionally, Jenkins can be accessed at <http://fm-18.compute.dtu.dk:8282/job/DTU%20Pay>, where the full pipeline can be run using the "build now" function.

You can access Jenkins with:

- Username: hubert
- Password: HubertTop\$eceretCode

## 5 Swagger: <http://localhost:8081/>

Local link

<http://localhost:8081/>

Remote link (server)

<http://fm-18.compute.dtu.dk:8081/>