1 Installation Guide for DTU Pay

This guide assumes the user is using a machine running Ubuntu. Clone the project by running the following command:

```
git clone https://github.com/adamjoer/dtu-pay.git
```

1.1 Requirements

- **Java 21**:
  `sudo apt install -y openjdk-21-jdk`
- **Maven v3.8**:
  `sudo apt install -y maven`
- **Docker v29.1** including the Docker Compose plugin:
  Follow the guide at: `https://docs.docker.com/engine/install/ubuntu/`

1.2 Building, running, and testing

The whole project, including jar files and Docker images for all services, can be built by running the build shell-script in the root folder (Each folder in the root also have their own build-scripts for rebuilding individual services or libraries):

```
./build.sh
```

It can then be run with the `deploy.sh` script in the **end-to-end-tests** directory:

```
cd end-to-end-tests/
./deploy.sh
```

After this the project will be listening on `http://localhost:8080`.

The E2E test scenarios can then be run in the same directory. Note that for testing to succeed, the API key for the bank API should be set in the `BANK_API_KEY` environment variable:

```
export BANK_API_KEY='xenon6472'
```

Then the tests can be run by executing the `test.sh` script in the same directory:

```
./test.sh
```

If all this should be done in one go, the `build-and-run.sh` script in the root directory can be run:

```
./build-and-run.sh
```

1.2.1 Teardown

The project can be stopped again by running a docker compose command in the **end-to-end-testing** directory:

```
cd end-to-end-tests/
docker compose down
```

1.3 Virtual Machine

The Jenkins server is available at the URL `http://fm-22.compute.dtu.dk:8282`, with the build status page available at `http://fm-22.compute.dtu.dk:8282/view/andon-board/`. In order log in on the Jenkins server, the following profile has been granted Admin access:

- Username: `huba`
- Password: `116fd2ba89c9796fdafabb594695ebb971`

The REST API is live at `http://fm-22.compute.dtu.dk:8080`.