LoanQuoteCalculator Webapp

#1

**As a:**

product owner of the loan calculator app

**I want:**

to transform the app into a web application

**So that:**

can be accessed by our clients from any devices

I used SpringBoot to build the webapp. It uses Basic Authentication.

A POST REST service has been defined http://localhost:8080/quote/quote/{loanamount}

The RequestBody is a list of Lenders (ui and way of adding this list of lenders to be defined)

Login and password are requested.

#2

**As a:**

product owner of the loan calculator app

**I want:**

to create an API that manages multiple requests

**So that:**

I can handle multiple requests from many clients

SpringBoot handle simultaneously requests. We can limit the number of concurrent requests by adding server.tomcat.max-threads to the application.properties or application.yml. Spring will manage a pool of connections and handle the distribution of entity managers

#3

**As a:**

product owner of the loan calculator app

**I want:**

to be able to scale this application to potential millions of borrowers and lenders

**So that:**

I can improve our loan business

To improve scalability we could use Docker and Kubernetes (nothing has been implemented in the project for this)

#5

**As a:**

DevOp team

**I want:**

to see how the application will be deployed to production

**So that:**

I can set up an environment for the application

Use git, gerrit and Jenkins to set up Continuous Integration.

In the project directory mvn clean install to compile then start application using command

./mvnw spring-boot:run

Server ready to accept requests