Test Project – Module D

LKS2015\_EN\_TP06\_MODULE\_D

Test Project – Module D

**CONTENTS**

This Test Project proposal consists of the following document/files :

* HTML File

**KoperasiLKS** is the large loan cooperation in Indonesia. This cooperation need web based application system to expand their reach.

The application can be used for people who want to apply for a loan. The requested application is similar to a web service so can accessible with another application on different platforms.

**DESCRIPTION OF PROJECT AND TASKS**

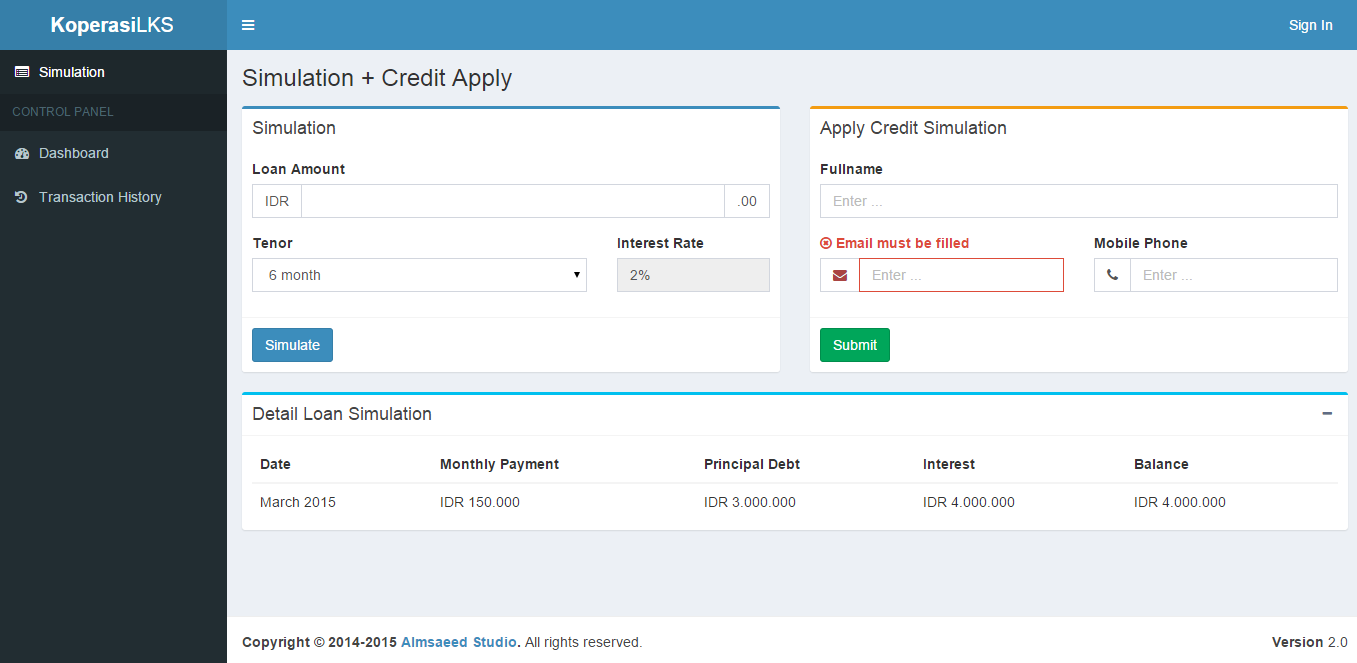
Your job is to develop web application based on library. In this case you must use **LARAVEL 5** framework and implement CQRS concept. You must create restful web service that provide API to access the application. The company will supply media files for the graphical part including HTML files, You should not create template for this application.

In this project you should use CQRS method from **Laravel** **5** to generate the API for the UI site, the UI site must use **Angular.js** that consume the RESTful result.

The application divided in two sections, front-end and back-end.

**Front-end section :**

In this section, user can apply for a loan. User **don’t have** to **login** to access this menu.



User should fill the total loan and tenor/term of loan appliance, after user click calculate button the system will generate the table of credit simulation.

You should generate the result from the UI site, using **Angular.js**.

The formula of loan simulation is :

**M = P \* ( J / (1 - (1 + J)-N))**

Notes :

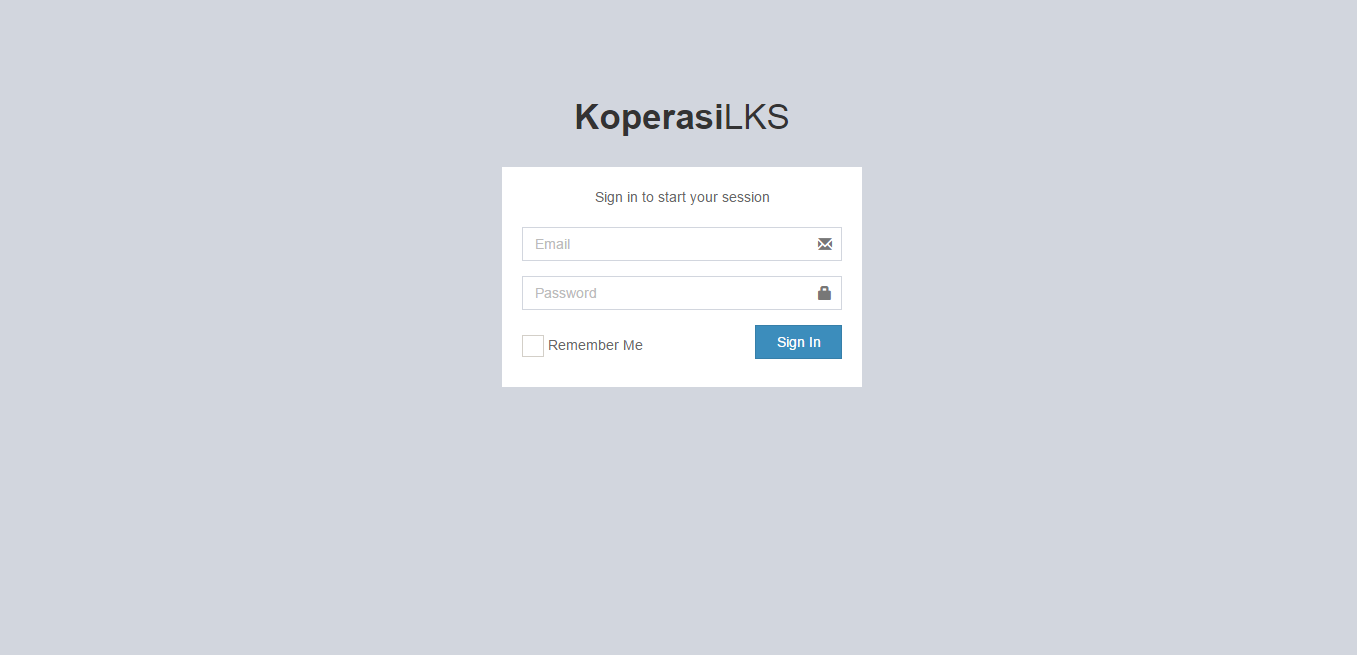
* M = Payment amount
* P = Principal, meaning the amount of money borrowed
* J = Effective interest rate. Note that this is usually not the annual interest rate
* N = Total number of payments

You can look at the **Sample\_Calculation.xlsx** for the calculation simulation.

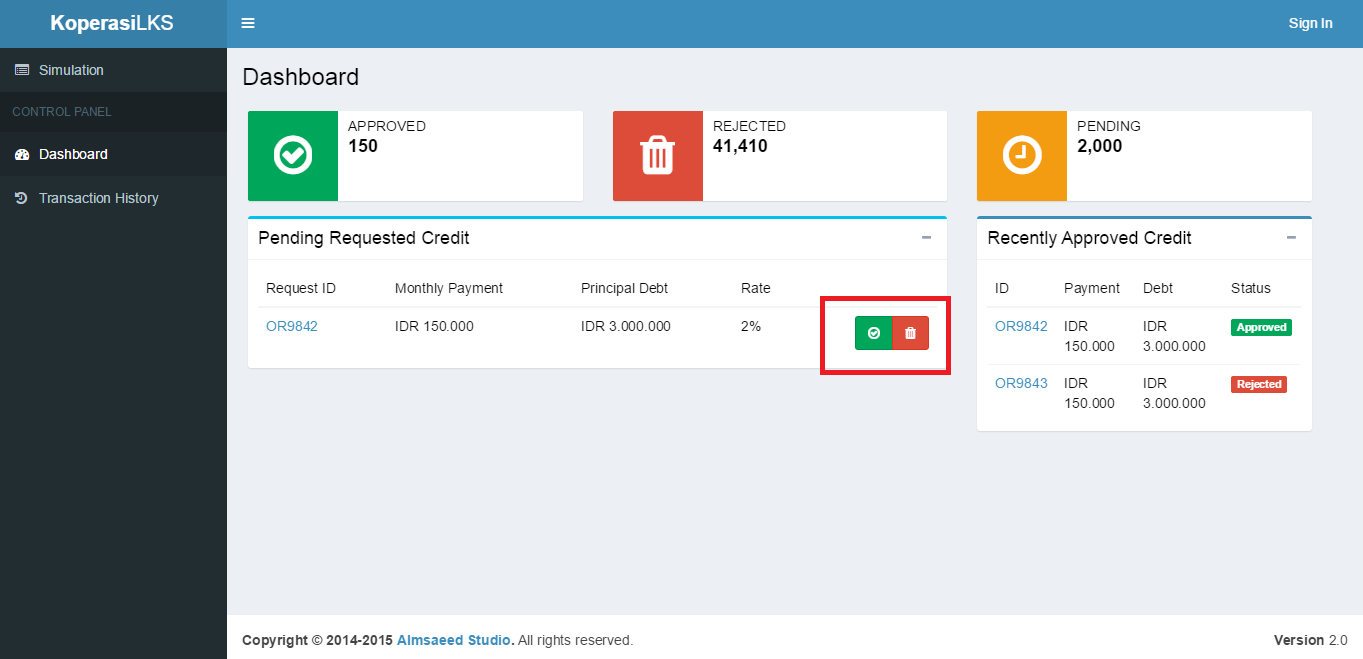
Submit button is disabled before email is filled. After user submit the form, application automatically **generate the code** of ***request ID*** (2 words & 3 number of sequence) and the application show simulation page.

**Back-end section :**

In this section, admin can login into the application. Admin can manage record(s) user loan and can approve or remove the record(s).



(*username : admin, password : loginadmin*). Remember, user **can’t access** all back end section except admin. All menu of admin can be accessed after **logged in**.



After admin approve the application, back-end should **send an email** into [lks@lks.com](mailto:lks@lks.com) which is an email is setup locally. You should not worry about how to set a **smtp**, because if you already use the Vagrant for the initial setup the smtp already set by it.

Admin can show the detail by click the request ID.

Please save all the files created in this task in the “XX\_MODULE\_D” directory, where XX is your computer number.

Please remember, you have 5 hours to execute this task.

**INSTRUCTIONS TO THE COMPETITOR**

You should use **laravel 5** and **Angular.js** framework for the development of this module.

You **will not be able** to use XAMPP, but we will provide the **Vagrant**, You must be able to use external tools with **Jetbrain PHP Storm** or **PHP Command Prompt** to execute the **Vagrant**. All tools are provided by us (you can see the Vagrant\_Readme.txt for the instruction)

Database schema is provided by us (see the **Schema\_DB.jpg**). You must use SQL Tools such as SQL Yog, Sequel Pro that connect into **mariadb** (already set by the **Vagratnt**). PHPMyAdmin is **not available** and **prohibited** during the competition on this module.

All the functionaly **must** be contained in an application made with the **laravel** **5** and **CQRS** concept, and the **angular.js** must be used as the UI site code.

You should download the booth of framework manually.

Module D is to be completed in a time of 5 hours as specified by the competition schedule.