# KATA for QA

## Functional Context:

Consider the following information system:

* The system is a web application for loans creation and tracking.
* The application users are investment bankers.
* The system allows the users to create loans and modify them.
* A loan is created with the following information
  + client name
  + loan Amount
  + start date
  + end date
  + The bank margin( as a percentage of the loan amount)
* Once the loan is created, we can add the following information
  + Repaid amount
* The existing system contains a loan dashboard: It is a table of one row per loan, and one attribute (client name, etc) per column.

## Users Requirements:

* I would like to have a repayment status or percentage on the each loan

## Solution Description

## User Story:

#### Story Description

**In order** to have a complete knowledge of my loan portfolio  
**as** an investment banker  
**I need** to have a view of my clients repayments

#### Specifications:

#### Context

In an existing loan dashboard, we would like to add a new column: **repayment status**

Persona: John investment banker

#### Functional Rules

* For loans that start in the future, the repayment status should be “not started”.
* For current loans, the repayment status should be
  + = repaid amount /(loan Amount (1+margin))
  + The format is %
* For all expired loans, the previous rule applies, (the repayment should theoretically be 100%).

#### User Interface

* “not started” should be displayed in grey
* The percentage should be displayed in blue
* If the percentage is not equal to 100% for an expired loan , it should be displayed in red.

1. Complete the user story with the acceptance criteria you see fit.
2. What are the details that you see missing in the user story ?
3. On march 15th one user sends you the following email saying:

**“**

**Hello**

* + **I have several issues with your repayment status, it is wrong! Is that why it is displayed in red?**
  + **It says not started but I just put 15M EUR in the Repaid amount.**
  + **You will find my screenshot below:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| client name | loan Amount | start date | end date | margin | Repaid amount | Repaid status |
| VINCI | **150M€** | **15/03/2017** | **15/03/2027** | **0.16%** | **15M€** | **Not started** |

**Regards,**

**John”**

* What is your approach?

Answer:

1)

**In order** to have a complete knowledge of my loan portfolio  
**as** an investment banker  
**I need** to have a view of my clients repayments

Scenario 1 : loan not started

When the loan is not started, the value of my repaid status should be “not started” displayed in grey

Scenario 2 : current loan

When the loan is already started, the value of my repaid status should be a ratio in “%” between the repaid amount and the amount to be repaid, displayed in blue. The amount to be repaid

Scenario 3 : expired loan and 100 % of repayement

When the loan is expired, the previous rules applies and John supposed to see 100 %

Scenario 4 : expired loan and below 100 % of repayement

When the loan is expired and the repayment is below 100 %, the repayment status is displayed in red

2)

The details that are missing are:

The format of the date, do I take into account the hour, minutes and seconds. What is the criteria for a start and end date

Do I include week-end and holidays?

I have to specify the currency.

What is the format of the amount?

What is the Operating system and the browser to be use?

3)

Thirst of all, I have to assure the client that I take into account his problem. Then I will try to analyze the bug in order to confirm is a true bug, during this step I Will try to reproduce the problem collecting the maximum of information from the creator of the bug or from the log and understand the expected result. Once the bug reproduced, I Will try with my team to identify the problem testing components one after the other using debug. If no problem found, I Will check interfaces, communication between systems. Once my bug identified, I will fix it and write additional tests in order to cover my feature. I will also notify John. Bug shows me that my feature is not covered at 100 %.

PS: I can see that, start and end date are the same. In my additional test I can play this case.