

# UI and API tests

## Project developed as a test for a QA position.

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### Reasons for choosing the tools used:

UI Test Cases: BDD (Behavior Driven Development) was used because I work with it in my daily basis.

UI Automated Tests: Selenium Web Driver was chosen because of its popularity among testers.

API Automated Tests: Rest Assured was chosen because of its popularity among testers, and because I could also work with Java as I would work with Selenium.

### User Story (provided by the evaluator, free translation to English):

**With the purpose of** simulating a saving investment

**As** a client

**I want to** fill in the simulation form

**so that I can** see the results table containing month and amount of money I can save

### Acceptance criteria (provided by the evaluator, free translation to English):

The client fills in all the fields of the form correctly and sees the simulation form

The client fills in a value less than "R\$ 20.00" and sees the message "Valor mínimo de R\$ 20.00".

URL: <https://www.sicredi.com.br/html/ferramenta/simulador-investimento-poupanca/>

### UI Test Cases:

**Scenario:** Simulate a saving investment with success

**Given** the client informed R\$20,00 in the <field>

**And** filled the field "Por quanto tempo você quer poupar?"

**When** he or she clicks on the button "Simular"

**Then** the system shows the amount of money the client will save according to the data informed

|field|

|Qual o valor que você quer aplicar?|

|Quanto você quer poupar todo mês?|

**Scenario:** Client fills in the field values with less than R\$20,00 for simulating a saving investment

**Give** the client filled in the <field> with less than R\$20,00

**When** he or she tries to fill in another field

**Then** the system shows the message "Valor mínimo de 20.00"

|field|  
|Qual o valor que você quer aplicar?|  
|Quanto você quer poupar todo mês?|

**Scenario:** Client fills in the field values with a number above R\$99999999.00 for simulating a saving investment

**Given** the client filled in a number above R\$99999999.00 in the <field>

**When** he or she tries to fill in another field

**Then** the system shows the message “Máximo de 99999999.00”

|field|  
|Qual o valor que você quer aplicar?|  
|Quanto você quer poupar todo mês?|

**Scenario:** Client do not fill in one or more of the mandatory fields for simulating a saving investment

**Given** the client has not filled in the <field>

**When** the or she tries to fill in another field

**Then** the system shows the <message>

field	message
Qual o valor que você quer aplicar?	Valor mínimo de 20.00
Quanto você quer poupar todo mês?	Valor mínimo de 20.00
Por quanto tempo você quer poupar?	Obrigatório

**Scenario:** Clean the saving investment simulator's form data

**Given** the client has filled one or more fields of the form

**When** he or she clicks on the button “Limpar formulário”

**Then** the system cleans the data that was filled in

**Scenario:** Client fills in with the number “0” in the field of period of time for simulating a saving investment

**Given** the client has filled the field “Por quanto tempo você quer poupar?” with the value “0”

**When** he or she clicks on the button “Simular”

**Then** the system shows the message “Valor esperado não confere”

#### Some issues found on the page:

- The field “Quanto você quer poupar todo mês?” is mandatory, but it does not indicate it by having an asterisk by its right side;
- It is possible to fill in negative numbers in the field “Por quanto tempo você quer poupar?”;
- The system does not hide the notifications of error after cleaning the form;
- The links on the buttons “Voltar para o site” e “Conheça mais sobre a Poupança” are not working;
- There are some differences between the mocked API and the real one.