



FULL STACK SOFTWARE ENGINEER

CASE FOR FINAL ROUND

IMPORTANT INFORMATION

We propose you one test. You have all the time you need to do it, the idea is that once you are done, you come back to Qover and you will present your code to some of our senior developers.

You have the right to use the STACK you want. Of course, we have a preference for NodeJS, MongoDB, React / Redux. But don't hesitate to use another stack.

We are more interested in quality of coding that making it working.

Zeplin Front Assets: <https://app.zeplin.io/project/5b6c64580422817783ce6186>

SOLUTION TO BE IMPLEMENTED:

It is about getting the price for an insurance product based on specific parameters. There are four steps to in the process:

- Step 1: Log-in
- Step 2: Fill-in the parameters
- Step 3: Compute the pricing & verify the request complies with the underwriting rules
- Step 4: Display the offer

You will find the assets & required designs of the different steps on the Zeplin (we have sent you an invitation).

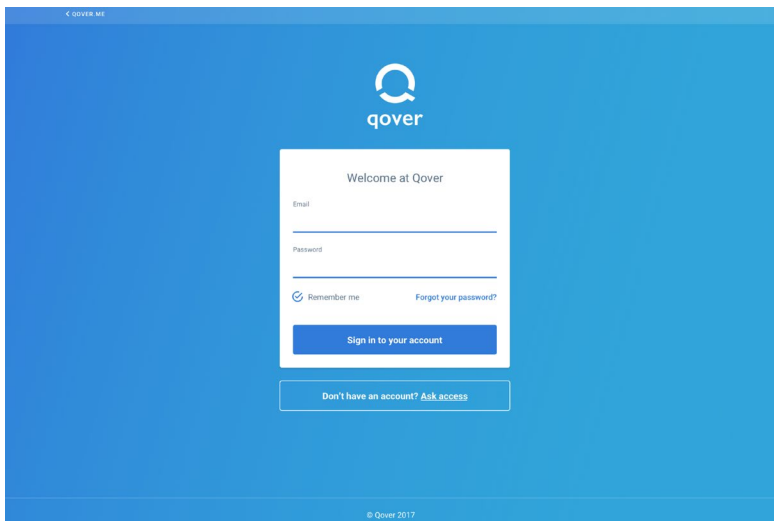
STEP 1 – LOG- IN AND AUTHENTICATION

The customer must first log-in on the web platform and can at any time log-out. We don't need yet the possibility to reset the password. For the time being, one log-in shall exist:

Log-in: Qover

Password:

Ninja



STEP 2 – QUICK QUOTE – FILL- IN the parameters

Three fields should be created and one button.

The customer should manually fill-in the three fields:

- **Field 1:** Age of the driver
- **Field 2:** A dropdown with the make of cars. The possible values are: Audi, BMW, Porsche
- **Field 3:** The purchase price of the car (in EUR)

Button: The label of the button should be “Get a price”

STEP 3 – QUICK QUOTE – COMPUTE PRICE & CHECK RULES

Once the customer clicks on the button “GET PRICE”, the following actions should take place:

1) Business Rules Acceptation:

- If the value of the car is below 5.000 €, should REJECT and display “Sorry! The price of the car is too low”
- If the driver is less than 18 years old, should REJECT and display “Sorry! The driver is too young”
- If the driver is younger than 25 years old and the car is a Porsche, REJECT and display “Sorry! We can not accept this particular risk”

2) Compute the price

There are two variants of the offer: Global and Universal

The yearly price should be computed as follow:

Global

	Price
AUDI	250 EUR
BMW	150 EUR
PORSCHE	500 EUR

Universal

	Price
AUDI	250 EUR + 0,3% x Value of the Car
BMW	150 EUR + 0,4% x Value of the Car
PORSCHE	500 EUR + 0,7% x Value of the Car

The screenshot shows a web form for car rental. It has three input fields: 'Age of the driver' with the value '31', 'Car' with a dropdown menu showing 'BMW', and 'Purchase Price' with the value '4000' and a Euro symbol. Below the 'Purchase Price' field, there is a red error message: 'Sorry! The price of the car is too low.' At the bottom of the form is a green button labeled 'Get a price'.

STEP 4 – DISPLAY THE OFFER

If the quote is accepted by the business rules, the offer should be displayed (Example of format: 1.500,34 EUR - so Belgian style).

The client could switch between “Monthly Price” and “Yearly Price”. The monthly price is simply the yearly price divided by 12.

You should also display the features of the different variants which are shown on the design (maximum travel duration, etc...)

Select a plan

PAY MONTHLY ☒ PAY YEARLY

Global	Universe
78,30 € YEARLY INCL. TAXES	114,71 € YEARLY INCL. TAXES
Maximum duration travel of 90 days	Maximum duration travel of 180 days
Medical expenses reimbursement up to 1.000.000 €	Medical expenses reimbursement up to 3.000.000 €
Personal assistance abroad up to 5.000 €	Personal assistance abroad up to 10.000 €
Travel assistance abroad up to 1.000 € per insured per travel	Travel assistance abroad up to 2.500 € per insured per travel
Coverage duration: 1 year	Coverage duration: 1 year
<input checked="" type="checkbox"/> Plan selected	Choose this plan

[Show me the full comparison table](#)

We wish you all the best!