

Part 1 – Test automation in Cypress

You are working as a test automation engineer in a software development team. For the past few weeks, the team has been hard at work, developing a [banking portal solution](#) for ParaBank. Now, the website is in QA stage. The team understands that you have been learning Cypress and has therefore presented this opportunity for you to create test cases and practice your automation skills using the framework.

Task 1

The goal of the first task is to get familiar with the website, get familiar with Cypress and to write the first automated test.

1.1 First, go to <https://parabank.parasoft.com/parabank/index.htm> and look at the website to get familiar with it.

1.2 From the front page, navigate to the “Customer care” page by clicking on the ‘mail’ icon. There fill out the schema to see how it works.

TIP: You can and should use a fake email.



1.3 Write a **manual step-by-step** testcase for the “use customer care page”-scenario.

1.4 Setup Cypress

- Follow the Windows/Mac guide

1.5 Now we are going to create our first automated test by **automating the test case we created in 1.3**. Create a new file for cypress, here we will put our first test.

TIP. You can look at the examples that Cypress created when you installed it for hints.

Task 2

The goal of this task is to write some test cases and implement them in a new test suite. The new test suite should be set up in such a way that **all tests begin with logging in and end with logging out**. This is to ensure that all tests can run independently. One benefit here is that we could setup the tests to run in parallel, which would make the tests run faster.

2.1 What other benefits do we get by ensuring that our automated tests are independent of each other?

2.2 Manually write three test cases for <https://parabank.parasoft.com/parabank/index.htm>.

TIP: Think about the **key features** of this website and create test cases for those.

TIP: **Do not** choose to register an account as your test case. While it is an essential feature on this website, it is a tricky test case to automate with Cypress. When a username has been used for creating an account, it cannot be used again.

2.3 Register an account at <https://parabank.parasoft.com/parabank/index.htm>. We will use this account when logging in and out in the Cypress tests.

2.4 Create a new Cypress file for a new test suite.

2.5 Implement an automated test for one of the test cases you created in 2.2. Make sure that you start by logging in and end with logging out. You should start with logging in and end with logging out even if it is not strictly required for your test case.

2.6 Implement another automated test for one of your test cases from 2.2. Again, make sure that you start by logging in and end with logging out, even if it is not strictly required.

2.7 Notice that both tests start with logging in and end with logging out. These lines of code are now duplicated, which is a poor way to develop. For this task you should extract the login part so that it is not duplicated.

TIP. Use the BeforeEach method. See the Cypress [documentation](#) for more information.

2.8 Now extract the logout part so that we do not duplicate that either.

TIP. Use the AfterEach method. See the Cypress [documentation](#) for more information.

2.9 Now, implement your third and last test case from 2.2. We see that the more test cases we get, the more useful the BeforeEach and AfterEach methods are, imagine if we had 100 testcases.

Now you have created some test cases and have automated them. Cypress is a powerful tool that can be used for more complex test cases and there are a lot of best practices we have not touched upon here. We hope you enjoyed the workshop and have gotten a quick taste of the value of automated tests.