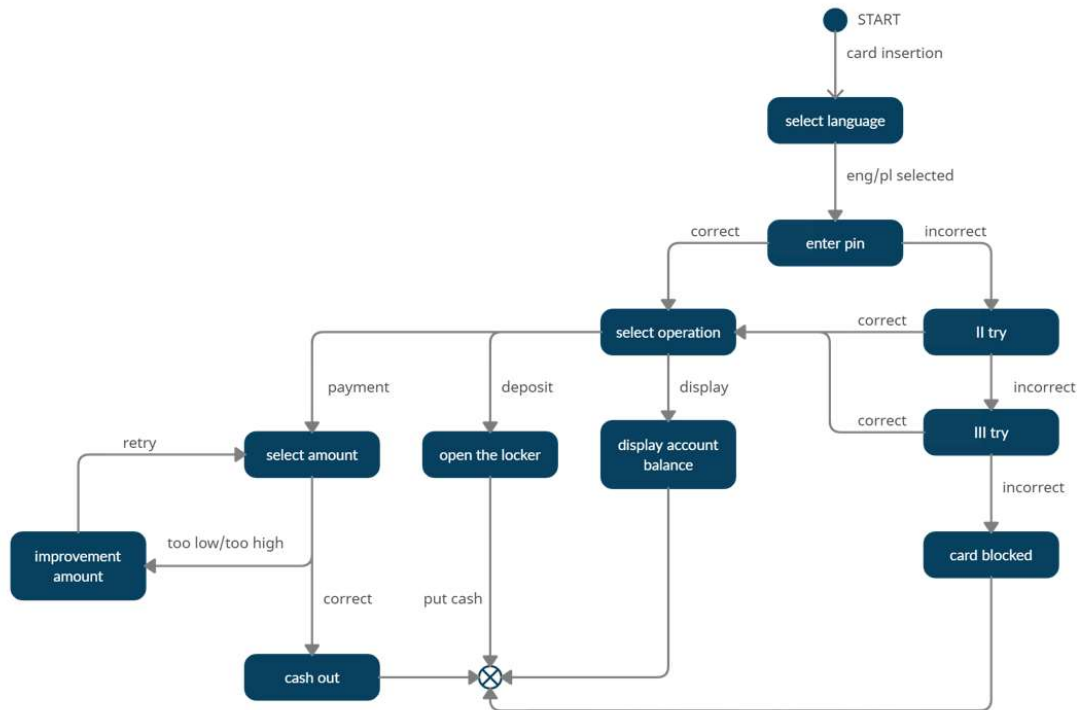**REPORT:** Techniques based on logic

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In order to practice all the described techniques, they were tested in various areas.

Control flow

Tests projected to: cash machine

Use cases

Tested website: https://poczta.wp.pl/rejestracja/

Use case: UC1_1 Create account

The aim: Create an account correctly

Actors: User

Preconditions:

- Open a browser on PC
- Launched site: https://poczta.wp.pl/rejestracja/

Name of test scenario	Step	Action	Expected result
Main test script – correct login	1.	In the "Name" field enter your first name composed of 2 to 30 letters	Account create correctly
	2.	In the "Surname" field enter your surname composed of 2 to 45 letters	
	3.	Select your sex	
	4.	In the "Day" field enter your day of birth	
	5.	From the drop-down list select month of birth	
	6.	From the drop-down list select year of birth	
	7.	In the "Select login" field enter login which: must have a letter as the first character, has a lenght between 3 to 25 characters and contain only lowercase and uppercase letters and numbers. It's able to use: ".", "_", "-".	
	8.	In the "Password" field enter min 8 any characters	
	9.	In the "Repeat password" field write the same characters as above	
	10.	In the "Telephone number" enter a 9-digit telephone number.	
	11.	Select suitable type of account: Free account or Paid account	
	12.	Click "Create account" button.	
Alternative test script – incorrect "Name" field	1.1	The filed "Name" is null/consist 1 or more than 25 characters/contain numbers or special symbols	Notification: „Please, enter your name correctly". Creating of account isn't finished.

Alternative test script – incorrect "Surname" field	2.1	The field "Name" is null/consist 1 or more than 45 characters/contain numbers or special symbols	Notification: "Please, enter your name correctly". Creating of account isn't finished.
Alternative test script – "Sex" field indefinite	3.1	In the field „Sex" wasn't selected any option	Backlight filed in red
Alternative test script – "Day" field is incorrect	4.1	In the field „Day" were introduced letters, number > 31 or the field is empty	Notification: „Enter correct value"
Alternative test script – "Month" field indefinite	5.1	In the field „Month" wasn't selected any option	Backlight field in red
Alternative test script – "Year" field indefinite	6.1	In the field „Year" wasn't selected any option	Backlight field in red
Alternative test script – "Login" field is incorrect	7.1	Entered login hasn't letter as the first character, has less than 3 or more than 25 symbols; contain unacceptable symbols, or the field „Login" is empty	Notification: "Check your login and try again"
Alternative test script – "Password" field is incorrect	8.1	The field „Password" is empty or contain less than 8 symbols	Notification: "Check your Password and try again"
Alternative test script – "Repeat password" is incorrect	9.1	Contents of the „Repeat password" is other than the filed "Password"	Notification: "Entered passwords aren't the same. Try again"
Alternative test script – "Telephone number" is incorrect	10.1	The field "Telephone number" is empty; contain letters, less or more than 9 digits	Notification: "Fail telephone number. Try again"
Alternative test script – "Type of account" field indefinite	11.1	In the field „Type of account" wasn't selected any option	Backlight filed in red

The above test script isn't enough. Necessarily is to create a tests set for the all alternative test scenario.

[Suggestion based on: https://www.ibm.com/docs/pl/elm/6.0.5?topic=testing-test-case-test-suite-overview]

Decision table testing

Test's object: cash machine

TC – test case

T – true

F - false

	TC1	TC2	TC3	TC4	TC5	TC6	TC7	TC8
preconditions								
card inserted correctly	T	T	T	F	F	F	F	T
correct PIN	T	T	F	F	T	T	F	F
efficient service of cash machine	T	F	F	T	T	F	F	T
actions								
correct cash out	T	F	F	F	F	F	F	F