Quality Assurance Professional - Test
Time: 1 hour
Assignment 1
Which tools have you used in the past to test frontend and backend? Please name them and explain why they were (or weren't) a good choice.
To test Frontend:

- **Selenium WebDriver:** it supports many programming languages, such as Java, Python, Ruby, C#… But it has a problem like Ajax page design, staleElement exception. But javaScriptExecuter solve this problem.
- **JUnit**
- **TestNG:** I chosed TestNG instead of JUnit. It provides me parallel testing, priority, groups of tests..
- **Cucumber:** I think this is the best one. It provides Gherkin language. I can write test scenarios as a normal text, so everbody, who has no more technical knowladge can understand codes.
- **Maven:** I dont need download one by one the files such as WebDriver(chrome, firefox, ie …), testNG, Junit… I just add dependencies into pom.xml and thats it.

To test backend:

- **Postman**: I used it manual API testing, that is a great program. You can create a collections and write the tests one by one and then you can run it one by one or all the collections and get report.
- **RestAssured lib:** Rest API is better that SOAP.
- **MySQL**: I used it manual database testing.
- **JDBC**: I used it to automate dataase testing.

Assignment 2
In general, which tests should be automated and how should they be prioritized versus manual tests?

Everyday we make smoke test, these are should be automated and be prioritized according to important one and depending on any test.

Regression test is very important, too. For a huge Software we cannot easily and fast manual testing after fixing a bug or when we relesed the software. But if we make all of Test autoamted, we can test it fast. So the Firma earn Time, that means money.

If we need many data tested, the automation ist the best one. For example 10000 user name and password. With automation we can test it fast.

Assignment 3
How would you deal with a developer that shows a resistance to change and to implement a test automation framework? How would you convince him that implementing a QA process is important for the project/product?

I try to explain without hard discussion. Sory I have no time :)

Assignment 4
Given you have a web app where you need to create an account to start using it. The registration process requires a name, email address, birthday and password using text input fields before you can click the submit button. Please describe the tests you would do to verify the functionality.

US_001: User can register with valid credentials

AC_001: Name input box should be writable. User enter valid name that contains only letters.
AC_002: Email input box should be writable. User enter valid email address with '@' and '.'
AC_003: Birthday input box should be writable.User enter valid birthday that should be formatted 'day.month.year'

AC_004: Password input box should be writable. User enter valid password with at least one letter, capital letter, number and speacial char.
AC_005: Submit button should be clcikable and user click on submit button
AC_006: User should see the success message "You are registered succesfully."

US_002: User cannot register with invalid credentials

AC_001 User enter invalid name that contains numerical or alphanumerical cahrs and see the red box and the message "invalid name"
AC_002: User enter invalid email address that contains not '@' or '.' and see the red box and the message "invalid email"
AC_003: User enter invalid birthday and see the red box and the message "invalid birthday"
AC_004: User enter invalid password that contains not capital letter or number or letter or special character and see the red box and the message "invalid password"
AC_005: Submit button should be inactive, not clickable,