11. Selenium IDE

Automate the world

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Questions

- What is Selenium
- What is Selenium Web Driver?
- Other automation tools?
- What is the most important reason to make automated tests?
- When is the appropriate time for automation?
- When we should do manual testing?

What is Selenium IDE?

- Integrated Development Environment
- Firefox Plugin
- The name comes from the mineral
- First version was over 10 years ago
- Runs directly in browser

What is Selenium IDE?(2)

- Records user actions as they are performed
- Exports them as a script in a chosen programming language
- The script can be later executed

Selenium can be used for:

- Acceptance testing
- Regression testing
- Smoke testing
- Integration testing

Building test cases

There are three primary methods for developing
test cases:
- Recording
- Adding Verifications and Asserts
- Editing commands

Building test cases(2)

Recording test cases:
- ● Useful for beginner users
- ● Selenium-IDE automatically inserts commands*
  into your test case based on your actions

*Selenium commands, often called Selenese, are the set of
commands that run your tests

Building test cases(3)

- Selenium commands are simple, they consist of the command and two parameters
- The parameters are not always required - it depends on the command

Command	Target	Value
goBackandWait		
verifyTextPresent		FMI
type	id=facultynumber	123456

Building test cases(4)

Parameters are different, however they are typically:

- A locator for identifying a UI element in a page
- A text pattern for verifying or asserting expected page content
- A text pattern or a selenium variable for entering text in an input field or for selecting an option from an option list

Selenium commands

Selenium commands are three types:

- Actions
- Accessors
- Assertions

Selenium commands (2)

- Actions are commands that generally manipulate the state of the application.
- They do things like: open this page or click this button etc.
- If an Action fails the execution of the test is stopped

Selenium commands (3)

Accessors examine the state of the application and store the results in variables (e.g. "storeTitle")
- They are also used to automatically generate Assertions

Command	Target	Value
store	Damyan	teacher

Accessing the stored value
- Done by enclosing the variable in curly brackets ({}) and preceded by a dollar sign - ${ … }

Command	Target	Value
type	id=boss	${teacher}

Selenium commands (4)

- Assertions are like Accessors, but they verify that the state of the application conforms to what is expected
- E.g., "make sure the page title is X" (assertTitle) and "verify that this checkbox is checked" (verifyText)
- With wrong assertion the test will stop and with wrong verification the test will continue anyway

Command	Target	Value
verifyTextPresent		Damyan

Demo...