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Selenium Web Browser Automation

Automation

Manual
 Time consuming
 Boring

- Programmable Keyboard or Lua
 - No feedback not sure if task was actually done

Possible Selenium IDE Demo – Registering for Classes



You have made too many attempts to register this term. Contact your registrar for assistance.

What is Selenium?

O Selenium automates browsers

Set of different software tools used to automate browsers



Brief History

O Developed by Jason Huggins in 2004

- Joined by other programmers and testers at ThoughtWorks
- Name started off as a joke to mock a competitor named Mercury
 - Apparently mercury poisoning can be cured by taking Selenium supplements

Selenium Applications

Test Automation Boring and Tedious Administrative Tasks

Exporting and Importing Data To/From Online Database Many Different Random Personal Uses

Selenium IDE (Demonstrated earlier)

O Selenium IDE

- Firefox add-on
- Simple record-andplayback of interactions with browser



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Command		Target	Value		
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clickAndWait		btnG			
clickAndWait		link=Antony Marcan			
clickAndWait		link=5 comments			
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Command	assertTextPresent				
Target	I think record playback is a wonderful thing Find				
Value					
10.00					
Log Conso	le		Info 🔽	Clear	
O Screenshot of					
Selenium IDE 8/1					

Selenium WebDriver

- Selenium WebDriver and Selenium Remote Control
 - Collection of libraries that drive a browser



Ø Browsers

- Chrome, Firefox, Internet Explorer, Safari, and etc.
- Programming Languages
 - C#, Java, JavaScript,
 Python, Ruby, and etc.

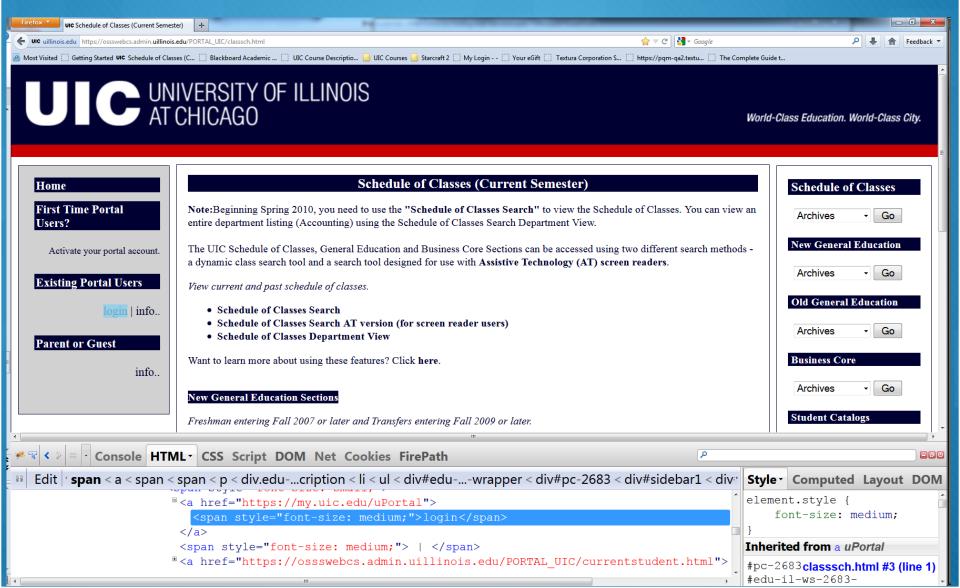
Selenium Web Driver Automation Demo

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Source Code

- Selenium Web Browser Automation's relationship to Programming Languages
 - **ON** Tiers
 - Looking for WebElements using xPath is Analogous to looking for data using SQL
 - Controlling WebElements is the other end of creating GUI elements in homework assignments

d1.get("https://my.uic.edu/common/"); click("//span[text()='login']");



 sendKeys("//input[@id='UserIDing click("//input[@value='Enter']"); 	out']", netID);				
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click("//span[text()='Academics']");



Click("//a[text()='Student Self Service Login -Registration and Records Menu']");

My Classes



Student Self Service Login - Registration and Records Menu

Log into Student Self Service Main Menu to register for classes, access online course information, section information, view your schedule, and view holds.

O click("//a[text()='Look-up or Select Classes']");

Registration Eligibility

Look-up or Select Classes

Add/Drop Classes

For more information and downloads:

http://docs.seleni umhq.org/



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