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Module 6: WebDriver Basics + Locators for java

## home task

1. WebDriver + Java + TestNG

* Select a system under test (preferable: web application being tested during your project activities);
* Agree with your mentor and document a scenario to automate. The scenario should be linear (no need to implement complex logic for now) and contain 8-10 simple steps;
* Use WebDriver API as much as possible (browser navigation, clicks, switchTo and etc.);
* Use several locator strategies i.e. different types of locators (and select the most suitable in your case);
* Experiment with waits (implicit and explicit).

1. If option #1 can’t be implemented by you due to any technical/project security reasons (project NDA) – use tasks from the eLearning module assigned to the learning path.
2. If option #1 and option #2 can’t be implemented by you due to any technical/project security reasons (project NDA) – use a public mail service (Mail.ru, Yandex.ru, Gmail.com and etc.) according the test flow below:

* Precondition: create an account for any mail services mentioned above.
* Test scenario/flow:
* Login to the mail box.
* Assert, that the login is successful.
* Create a new mail (fill addressee, subject and body fields).
* Save the mail as a draft.
* Verify, that the mail presents in ‘Drafts’ folder.
* Verify the draft content (addressee, subject and body – should be the same as in 3).
* Send the mail.
* Verify, that the mail disappeared from ‘Drafts’ folder.
* Verify, that the mail is in ‘Sent’ folder.
* Log off.

Another option – to use any EPAM service (Heroes, Grow, Time, etc.). In this case make agreement about the scenario with your mentor.

## Bonus TAsk

Install Firefox, Selenium IDE. Create a script that will:

* Open Google Search;
* Search for ‘Banana Song’;
* Find a Youtube link (‘href’ contains ‘youtube.com’) with ‘Despicable Me’ in the text, follow this link;
* Assert that we are on Youtube site (page title);
* Assert that video was watched more than 50 million times (regex will help you). Note: Russian and English localizations have different format of ‘viewed’ number, the script should work whatever.

Save a script as “<YOUR\_NAME>\_BANANA.html” to your homework directory.

## acceptance criteria

1. The scenario is linear (no need to implement complex logic for now)
2. Different locator strategies are used for a task.
3. Usage of auto-generated locators is avoided.
4. WebDriver API is widely used.
5. Different methods of waits are used.
6. Test scenarios are clear, stable and good structured.
7. Each method in test scenario has assertions.
8. Test scenarios correspond to the agreed one.

**Final score is graded as follows:**

1. 1 – mentee has watched all the videos, completed quizzes but hasn’t completed any practical final task.
2. 2\* - mentee has watched all the videos, completed quizzes and has completed practical final task “I Can Win”
3. 3\* - mentee has watched all the videos, completed quizzes and has completed practical final task “Bring It On”
4. 4\* - mentee has watched all the videos, completed quizzes and has completed practical final task “Hurt Me Plenty”
5. 5\* - mentee has watched all the videos, completed quizzes and has completed practical final task “Hardcore”

\* score can be reduced if solution is invalid