Mona Honkanen
Onkamontie 284
90840 Haukipudas
tel. 040 722 3444
email mona.honkanen@gmail.com

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What automating tool would I use with this assignement?

I prefer automating tools with a GUI recorder because they are simply quick to create test cases. By GUI-recorders I can do basic test cases quickly and I can modify test cases more (if necessary) by scripting.

I really liked tool named TestProject.io when I did my thesis about automating test frameworks. It is a modern cloud-based user interface and it is built on top of Selenium and Appium. It gives possibility do web, mobile and cross platform testing. You can read about TestProject.io from here: https://testproject.io/ . When I did my thesis, I had some trouble getting my phone screen to GUI-recorder (due to my old phone). I got very good support from TestProject and several people helped to solve the problem. I think this is the most modern and lightweight automating testing tool at this moment. And it gives very clear reports and possibility to team work.

My second choice would be more traditional option: Robot Framework with proper libraries (for example Selenium). Robot framework is flexible and versatile to use. Test cases are written using keywords. I think it is little slower to use than Testproject, from implementation to scripting tests. You can read about Robot Framework and Selenium library from here: https://robotframework.org/ https://robotframework.org/SeleniumLibrary/SeleniumLibrary.html

Some related test cases to automate:
Here are some test cases (7 pcs) related to the assignement:

Test Case ID: 1	
Description: Open a browser and enter the URL	
Pre-conditions:	Working internet connection and ready to go web browser
Steps:	1. Open browser 2. Enter to the address field: http://localhost:8000/
Expected result:	1. The wanted page should be displayed 2. Check the page elements (label, input field and submit button)

Test Case ID: 2	
Description: Enter text to the input field and click send button	
Pre-conditions:	Valid web page is displayed
Steps:	1. Enter text <script> to the input field 2. Click send button
Expected result:	Input field clears

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Test Case ID: 3	
Description: Check if email is sent/ received	
Pre-conditions:	Input text \<script\> is submitted
Steps:	1. Open mailbox 2. Check inbox 3. Open received email 4. Check the content of the email
Expected result:	1. Email is sent from: joiku.vain@gmail.com 2. Subject is: "Alert from vulnerable feed" 3. Email's content is: "From your localhost page was detected some vulnerable feed! Check security settings

Test Case ID: 4	
Description: Click submit button without entering any text in input field	
Pre-conditions:	Valid web page is displayed
Steps:	Click send button
Expected result:	Form is submitted

Test Case ID: 5	
Description: Enter maximum allowed text in to the input field	
Pre-conditions:	Valid web page is displayed
Steps:	1. Enter "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"to the input field 2. Click send button
Expected result:	Text is submitted

Test Case ID: 6	
Description: Refresh the page after entering text	
Pre-conditions:	Valid web page is displayed
Steps:	1. Enter "xoxo" in to the input field 2. Refresh page
Expected result:	Page should be refreshed with input field blank.

Test Case ID: 7	
Description: Check spelling and whether required fields are marked	
Pre-conditions:	Valid web page is displayed
Steps:	1. Check spelling 2. Check if there are required(*) marks
Expected result:	Spelling is correct and required marks are in right places.