I. IDENTIFICATION DATA

<table>
<thead>
<tr>
<th>Thesis title:</th>
<th>Browser Extension for Secure Web Development</th>
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</thead>
<tbody>
<tr>
<td>Author’s name:</td>
<td>Sipek Michal</td>
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<tr>
<td>Type of thesis:</td>
<td>Master</td>
</tr>
<tr>
<td>Faculty/Institute:</td>
<td>Faculty of Electrical Engineering</td>
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<tr>
<td>Department:</td>
<td>Department of Computer Science</td>
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<tr>
<td>Thesis reviewer:</td>
<td>Sebastian Garcia</td>
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<tr>
<td>Reviewer’s department:</td>
<td>Faculty of Electrical Engineering , Department of Computer Science</td>
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</tbody>
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II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment

How demanding was the assigned project?

The project was hard since doing a pentest tool from a web browser is hard, with many problems to overcome. So far I don’t know a good browser extension that can do it in a useful way.

Fulfilment of assignment

How well does the thesis fulfil the assigned task? Have the primary goals been achieved? Which assigned tasks have been incompletely covered, and which parts of the thesis are overextended? Justify your answer.

The task was satisfactorily fulfilled since the implementation managed to do some parts of a pentest from the extension. So the part of the primary goal was fulfilled, and some parts of the goal were not fulfilled. The parts not fulfilled are the automation part of the tests and the awareness of the developers. This last two parts are much broader as goals and not done. First, there was no analysis of which techniques should be included and which should not. Second, the automation was not done for all the parts and finally there was no education or explanations for the user in order to raise awareness.

Methodology

Comment on the correctness of the approach and/or the solution methods.

The main problem with the thesis is its lack of a proper methodology. In particular the goal is not clear, there is no previous work analysis, no design of the experiments, no comparison, no evaluation of errors. So even though the extension is new, it is not clear if it works, and how good, and what things it does that no other extension do.

Technical level

Is the thesis technically sound? How well did the student employ expertise in the field of his/her field of study? Does the student explain clearly what he/she has done?

The code of the extension is good and the student did a good job implementing a difficult extension. Most of the hard problems of pentesting from a browser are actually how to do them in JavaScript.
THESIS REVIEWER’S REPORT

III. OVERALL EVALUATION, QUESTIONS FOR THE PRESENTATION AND DEFENSE OF THE THESIS, SUGGESTED GRADE

Summarize your opinion on the thesis and explain your final grading. Pose questions that should be answered during the presentation and defense of the student’s work.

The grade that I award for the thesis is C

Date: June 9th, 2022

Signature: Sebastian Garcia