**Ethical Submission: Survey on the awareness, understanding and usage of Subresource Integrity (SRI) by web developers**

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| **Timestamp** |
| 29/08/2019 |
| **Study Title:** |
| Survey on the awareness, understanding and usage of Subresource Integrity (SRI) by web developers |
| **Researcher(s):** |
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| **Responsible Professor:** |
| Kévin Huguenin |
| **Responsible Professor is:** |
| Organizer |
| **Research question(s) to be answered by the study:** |
| 1. Are web developers aware of SRI? 2. Do web developers understand SRI? 3. How do web developers use SRI? |
| **Study design and procedure:** |
| We send an anonymous survey by email to web developers who manage domain names (e.g., webmaster@unil.ch) or who publicly share their email address on webpages associated with web technologies (Wordpress and Nodejs.). The survey is hosted on Qualtrics, and web developers answer to the survey anonymously and voluntarily.  If the number of respondents is not sufficient, we will investigate the use of alumni networks and commercial survey platforms (such as Amazon Mechanical Turk) to gather additional answers. In both cases, the data will be collected anonymously. |
| **Type of compensation offered to the participants (monetary, other, none):** |
| We will not pay the web developers who voluntarily answer the questionnaire. The web developers who answer through a survey platform will receive monetary compensation. |
| **Does the experimental procedure involve deception of participants?** |
| No |
| **If yes, why is deception necessary?** |
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| **Are there any reasonably foreseeable risks or discomforts to participants and or groups/ communities?** |
| Yes |
| **If yes, indicate probability, magnitude, and duration of each (note that risks may be physical, psychological, social, legal and economic) and outline provision to minimize risk** |
| We will send unsolicited emails, which might be perceived as spam. The surveys will be sent to web developers only once. The emails will contain an unsubscribe link that will effectively prevent further contacts. Those who do not unsubscribe will eventually receive the analysis of the survey. |
| **Describe the types of research data to be collected, treated and analyzed and their origin(s)?** |
| We will collect anonymized data about the awareness, understanding and usage of SRI by web developers. These data will include demographic information (e.g., age, gender) and the origin of the answers (e.g., Wordpress, Nodejs, alumni network, survey platform) |
| **During the experiment, how will subject-subject anonymity be assured?** |
| The emails sent to the participants will not contain tracking codes; i.e., it will not be possible to link the participants to the answers. |
| **Will the anonymity of the participants be reasonably guaranteed in the final data-set?** |
| Yes |
| **If the anonymity of the participants will not be guaranteed, please explain why** |
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| **Briefly describe how (where and on what media) the data will be stored, backed-up, managed and curated in short to medium term (during the lifetime of the project). It is highly recommended to use SWITCHDrive. If you plan NOT to use SWITCHDrive, explain why and include a description of the protection mechanisms that will be put in place (e.g., cryptography, access control).** |
| SWITCHDrive + ISPLab backup |
| **For how long will the data kept after the end of the project?** |
| We will keep the anonymized data as an artefact for generations to come. |
| **If the data-set is intended to be shared with other institutions, under which conditions will it be shared and what data protection mechanisms do you intend to apply further (if any).** |
| We might share the anonymized data on Zenodo for reproducibility purposes. |
| **If yes, briefly state why it is suitable and under what conditions:** |
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| **How many participants will you (roughly) need for the study?** |
| N/A |
| **Do you need a minimum number of participants per session in order to be able to run a session?** |
| No |
| **If your minimal session size is larger than 13 participants, please explain why it is not possible to run smaller sessions:** |
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| **When do you plan to run the study?** |
| Start in September 2019 |
| **Do you plan to use the ORSEE subject-pool for the recruitment of participants?** |
| No |
| **If no, how do you plan to recruit the participants?** |
| We will send emails to software developers who manage domain names, publicly share their email address on webpages, belong to an alumni network, or register on survey platforms. |
| **For SNSF application: Do you need an approval letter from the HEC Ethics Committee?** |
| N/A |
| **Do you have any further questions or comments? Please note them here or contact us via hec-labex@unil.ch** |
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| **Accepted by Ethics Committee** |