

Recruitment and Participant Characterization Form

This form is intended to collect information about potential participants in our experiment. The questionnaire will be completed online and takes less than 7 minutes to complete. The responses provided will be used to better understand your profile and experience. All collected information will be kept confidential and used exclusively for the purposes of this study. We sincerely appreciate your willingness to participate in our experiment.

The objective of this research is to evaluate the effectiveness of a card-based game designed to teach security patterns and software vulnerabilities in web systems. We aim to understand how this game can contribute to the comprehension of these concepts and their application in practical situations. To this end, we will conduct a controlled experiment comparing the effectiveness of the game as an educational tool with a traditional lecture-based approach.

To participate, you must be **over 18 years of age** and have some **familiarity with web development and software/information security**.

Responsible Researchers:

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Supervising Advisors:

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PART I – GENERAL PARTICIPANT CHARACTERIZATION

In this section, we will collect basic information and personal data to better understand your profile.

1. **What is your name?** Please enter your full name, including first and last name.
(Required)
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2. **What is your email address?** *(Required)*
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3. **What is your age?** *(Required)*
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4. **What is your gender?** *(Required)*

- Man
 Woman
 Non-binary, gender queer, or gender non-conforming
 Prefer not to say
 Other: _____

5. **What is your undergraduate program?** *(Required)*

- Information Security

() Systems Analysis and Development

6. **Which semester/academic period are you currently in? (Required)**

- () 1st semester/period
- () 2nd semester/period
- () 3rd semester/period
- () 4th semester/period
- () 5th semester/period
- () 6th semester/period
- () 7th semester/period
- () Above the 7th semester/period

7. **Are you currently working in the software industry or in research and development (R&D) projects in the area? (Required)**

- () Yes, in the software industry
- () Yes, in research and development projects
- () Yes, in both
- () No

PART II – EXPERIENCE WITH SOFTWARE (OR INFORMATION) SECURITY, WEB SYSTEM DEVELOPMENT, AND SECURITY PATTERNS AND SOFTWARE VULNERABILITIES FOR WEB SYSTEMS

In this section, we will collect information about your level of experience and familiarity with software (or information) security, vulnerabilities, and security patterns for web systems.

8. **How do you self-assess your level of knowledge in web systems development? (Required)**

- () I have applied this in an industrial project.
- () I have participated in hands-on classroom exercises.
- () I have taken classes on this topic.
- () I have conducted prior research using literature sources and online resources.
- () I have no prior familiarity with this topic.

9. **How do you self-assess your level of knowledge in software (or information) security? (Required)**

- () I have applied this in an industrial project.
- () I have participated in hands-on classroom exercises.
- () I have taken classes on this topic.
- () I have conducted prior research using literature sources and online resources.
- () I have no prior familiarity with this topic.

10. **How do you self-assess your level of knowledge in security vulnerabilities for web systems? (Required)**

- () I have applied this in an industrial project.

- I have participated in hands-on classroom exercises.
- I have taken classes on this topic.
- I have conducted prior research using literature sources and online resources.
- I have no prior familiarity with this topic.

11. How do you self-assess your level of knowledge in security patterns to mitigate vulnerabilities in web systems? (Required)

- I have applied this in an industrial project.
- I have participated in hands-on classroom exercises.
- I have taken classes on this topic.
- I have conducted prior research using literature sources and online resources.
- I have no prior familiarity with this topic.