

## Intrinsic Motivation Inventory (IMI)

This form aims to assess your motivation regarding *[the traditional lecture as a teaching and learning tool for security patterns and software vulnerabilities in web systems]* or *[the RiskGuard card game as a teaching and learning tool for security patterns and software vulnerabilities in web systems]*.

In this study, you have the right not to answer any question; therefore, no item has been configured as mandatory. However, for the quality of the research, it is essential that you complete all fields and provide an answer to each of the thirty statements presented.

Before submitting the form, we recommend that you review your responses to ensure that you have not accidentally left any statement unanswered.

### What is your full name? *(Required)*

This information is required so that your responses across different questionnaires can be analyzed together. However, we emphasize that your confidentiality, secrecy, and privacy will be fully preserved throughout the entire research.

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**Based on the teaching and learning activity you participated in, for each of the statements below, indicate how true it is for you using the following 7-point scale:**

- 1 - Not at all true
- 2 - Slightly true
- 3 - Somewhat true
- 4 - Moderately true
- 5 - Considerably true
- 6 - Very true
- 7 - Completely true

#### 1. I really enjoyed doing this activity.

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true			Completely true			

#### 2. I put a lot of effort into doing this activity.

1 2 3 4 5 6 7  
○ ○ ○ ○ ○ ○ ○  
Not at all true Completely true

**3. This was an activity that I could not do very well.**

1 2 3 4 5 6 7  
○ ○ ○ ○ ○ ○ ○  
Not at all true Completely true

**4. Doing this activity is useful for learning software vulnerabilities and security patterns for web systems.**

1 2 3 4 5 6 7  
○ ○ ○ ○ ○ ○ ○  
Not at all true Completely true

**5. I was anxious while working on the activity.**

1 2 3 4 5 6 7  
○ ○ ○ ○ ○ ○ ○  
Not at all true Completely true

**6. I would describe the activity as very interesting.**

1 2 3 4 5 6 7  
○ ○ ○ ○ ○ ○ ○  
Not at all true Completely true

**7. I think I did very well on this activity compared to other students.**

1 2 3 4 5 6 7  
○ ○ ○ ○ ○ ○ ○  
Not at all true Completely true

**8. I think this is an important activity.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**9. I did not try very hard to do well on this activity.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**10. The activity did not hold/keep my attention at all.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**11. I was pretty skilled at this activity.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**12. I believe doing this activity was beneficial for me.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**13. I felt very tense while doing the activity.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**14. I found the activity quite enjoyable.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**15. Doing this activity helped me learn about software vulnerabilities and security patterns for web systems.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**16. I am satisfied with my performance on the activity.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**17. I would be willing to do this activity again because it is valuable/useful to me.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**18. I was very relaxed while doing the activity.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**19. The activity was fun to do.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**20. I believe this activity may have some value/usefulness for me.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**21. It was important to me to do well on this activity.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**22. After working on the activity for some time, I felt pretty competent.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**23. While I was doing the activity, I was thinking about how much I enjoyed it.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**24. I did not feel nervous at all while doing the activity.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**25. I think the activity is important because it can support the teaching and learning of software vulnerabilities and security patterns for web systems.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**26. I did not put much energy/effort into doing the activity.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**27. I felt pressured while doing the activity.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**28. I think I am very good at this activity.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**29. I tried very hard on this activity.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		

**30. I found the activity boring.**

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not at all true				Completely true		