

Module 5- Computer Systems (2021-22) Project

UNIVERSITY OF TWENTE.

Testing-Security by Design Checklist

Team ID: #22	Team Members: Liran Neta, Laurens Neinders, Kağan Gülsüm, Rick Pluimers, Alex Petrov, Kristiyan Velikov
Project Name: RC Racing System	Mentor(s): Alex Mo, Mohammed Assaad

Instructions:

- 1. Refer to the below table. All the mentioned points are mandatory to perform for your application except point no. 4.
- 2. You should consider at least 2 vulnerabilities for each criteria given in Column 'B', except points no. 4, 6, and 7.
- 3. The mitigation plan/solution should be considered for every identified vulnerability.
- 4. Make sure to review the document with your team members and mentor(s) before final submission.
- 5. This checklist should be inlined and submitted along with the Software Testing document.

Points	Source Code Review, Static and Dynamic Application Testing	Identified Vulnerabilities for testing (Name them)	Put tick ✓(if you have completed all the points as mentioned in Column 1.	Remarks, if any
1	Application security vulnerabilities (e.g. Access Control, Injection, Authentication, Cross-Site scripting, etc.)	XSS (Cross-Site Scripting), SQL Injection, Authentication, Insufficient session expiration, Man-in-the middle-attack	✓	
2	Weak security in functions (e.g. old encryption techniques, Hashing, Privileges assigned, Function error, etc.)	Privileges assigned, Function errors	✓	
3	Duplicate/unnecessary functions	Duplicate functions and Unnecessary Functions	✓	
4	Analyzing Program (e.g. computation time, power consumption, etc.) (Optional)	Analyzed page loading times	✓	
5	Address the remaining vulnerabilities of your application (manual)	Starting a race, Reciving correctly data from REST endpoints	✓	
6	Make a mitigation plan/solution by listing down the vulnerabilities	We have our solutions for the vulnerabilities in the software testing document	✓	
7	Review with your team members and approve by your mentor(s).	Documents are reviewed and approved by our team	✓	

Team members reviewed:	(Liran Neta, Yes), (Laurens Neinders, Yes), (<u>Kağan Gülsüm</u> , Yes), (Kristiyan Velikov, Yes), (Rick Pluimers, Yes), (Alex Petrov, Yes)
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Mentor(s) reviewed and verified:	(Mentor 1, Yes), (Mentor 2, Yes)
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Prepared by: Dipti K. Sarmah (Project Coordinator)