
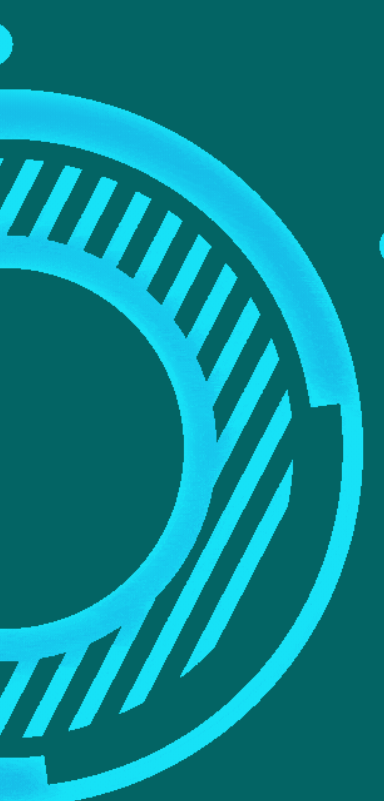


DEVELOPMENT BROWSER EXTENSION FOR DETECTING XSS VULNERABILITIES BASED WEBSITE USING LONG SHORT TERM MEMORY ATTENTION (LSTM-ATTENTION) ALGORITHM



PRESENTORS



11320032

RICKY ANANDA
PARDOMUAN SITORUS



11320043

RUT FERWATI
LUMBANTORUAN

OUTLINE



Background



Purpose



Research Question



Expected Result



Methodology



Risk




Work Plan



Reference




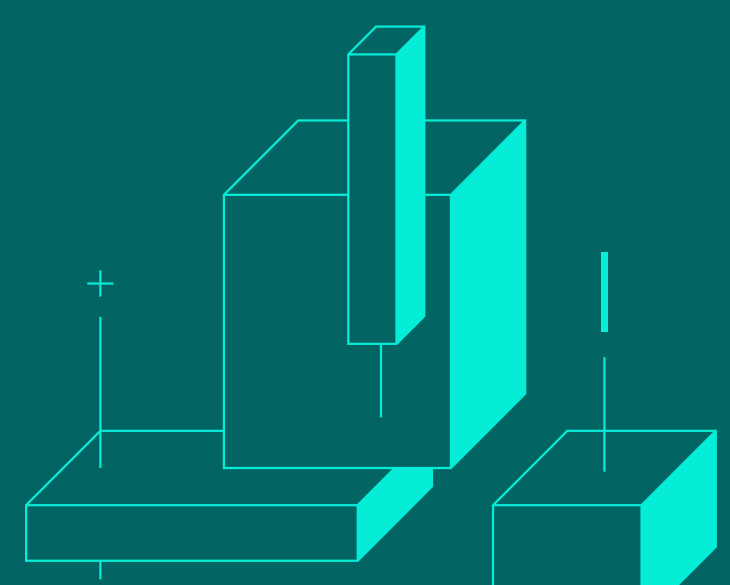
BACKGROUND

- The level of internet usage is getting higher every year which triggers a large number of cybercrimes [1]
 - According to OWASP, Cybercrime has many types of attacks, one of which is XSS [2]
 - XSS is a type of attack that allows an attacker to execute a script in the victim's browser that can hijack user sessions, steal cookies, and leak users' personal information [2]
 - In 2020, it was found that as many as 25% of the web had vulnerabilities to XSS, it shows that web application security has not been addressed effectively so efforts are needed to address the vulnerability [3]
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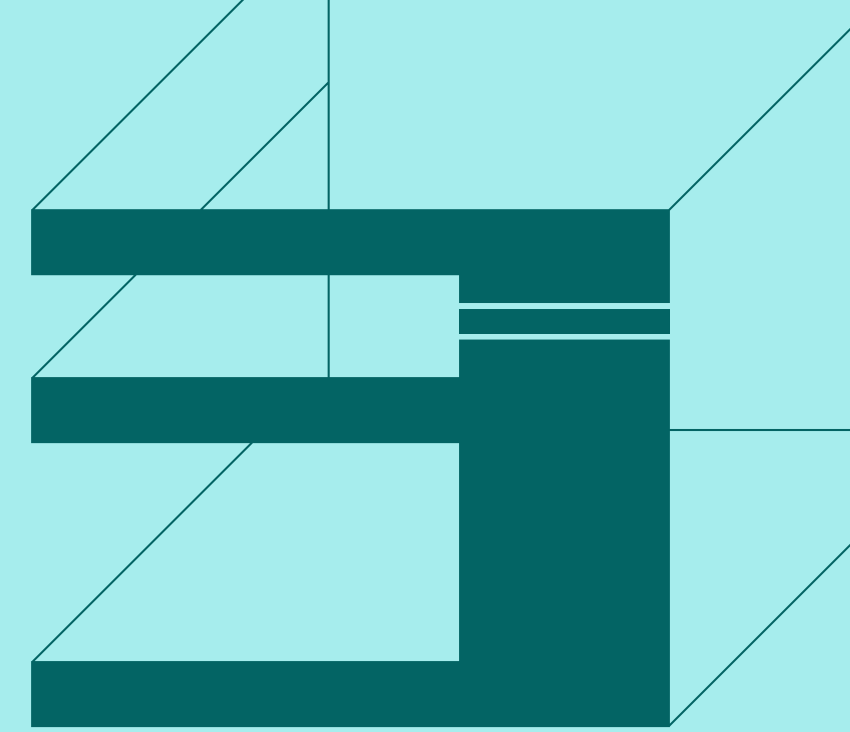


PURPOSE

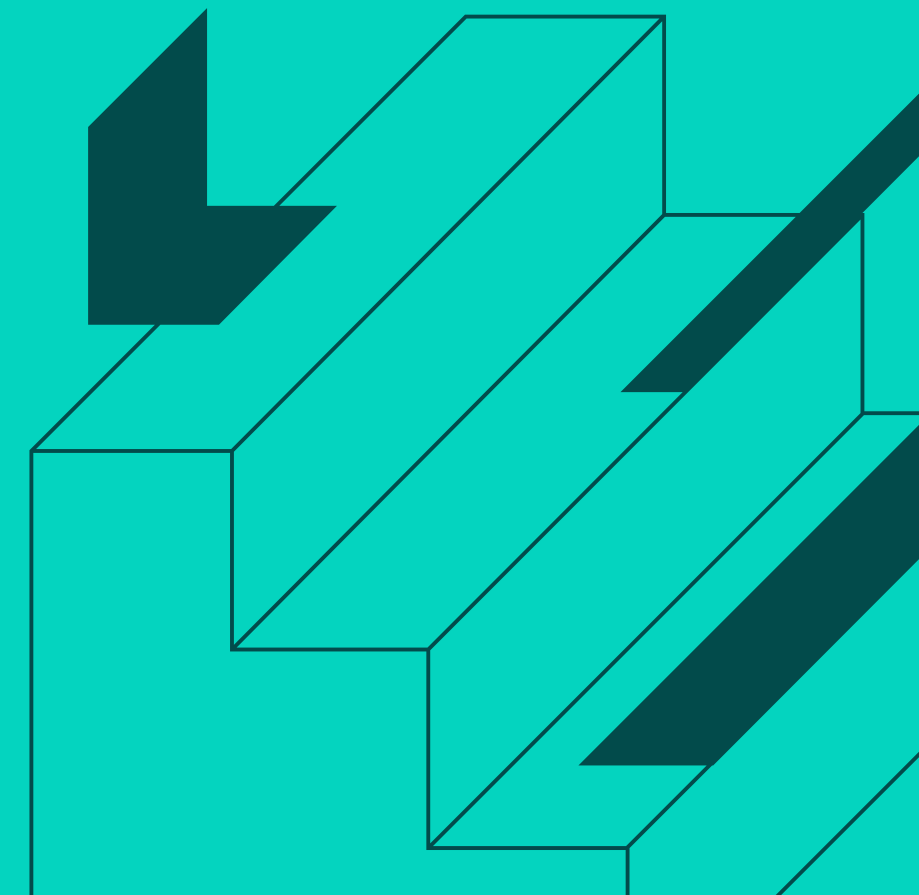
Building a browser extension that is used to detect XSS (XSS reflected type) using LSTM-Attention (Long Short Term Memory Attention).



RESEARCH QUESTIONS



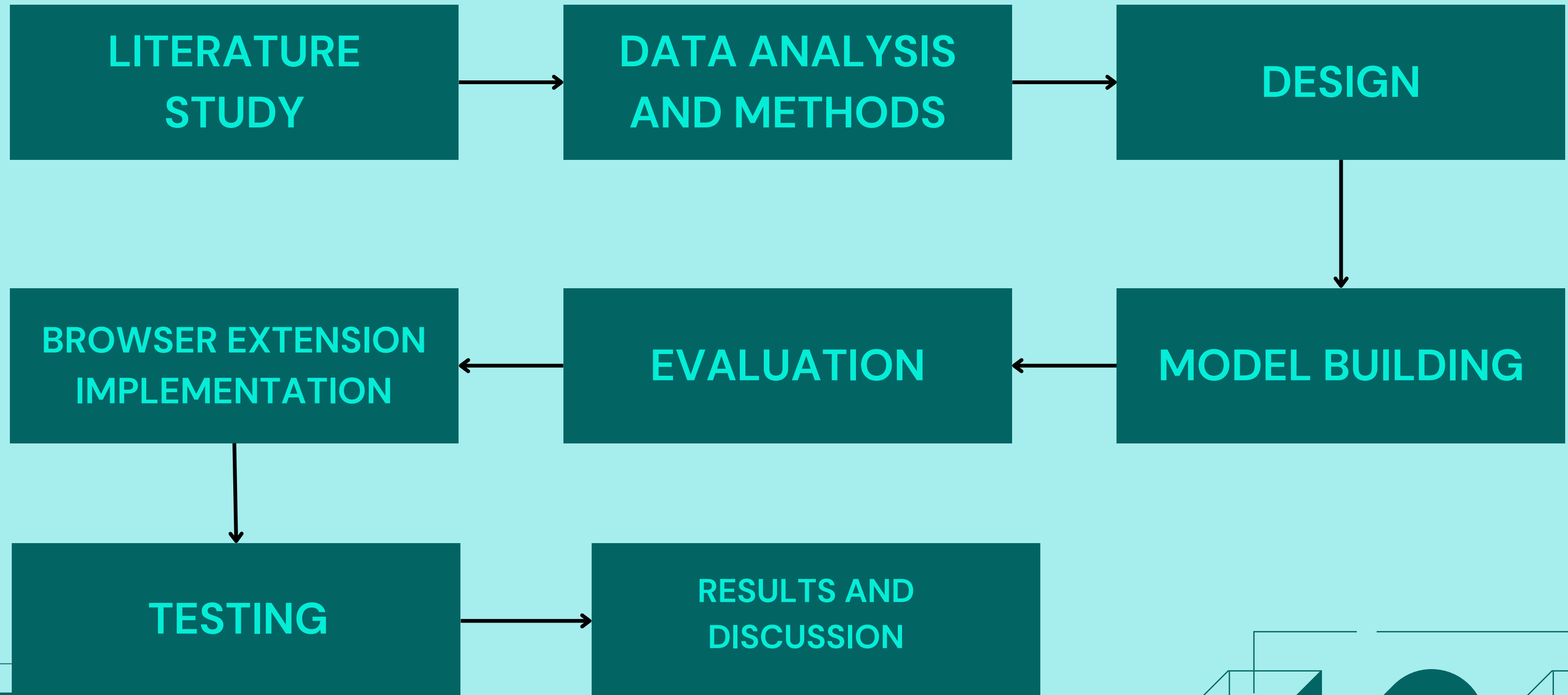
- How to build a browser extension in detecting XSS attacks using the LSTM-Attention algorithm?
- How does LSTM-Attention work in XSS detection on the web?
- What is the accuracy level of browser extension in detecting XSS attacks?



EXPECTED RESULT

**The expected result of this Final Project is
a browser extension used in the detection
of URLs containing XSS**

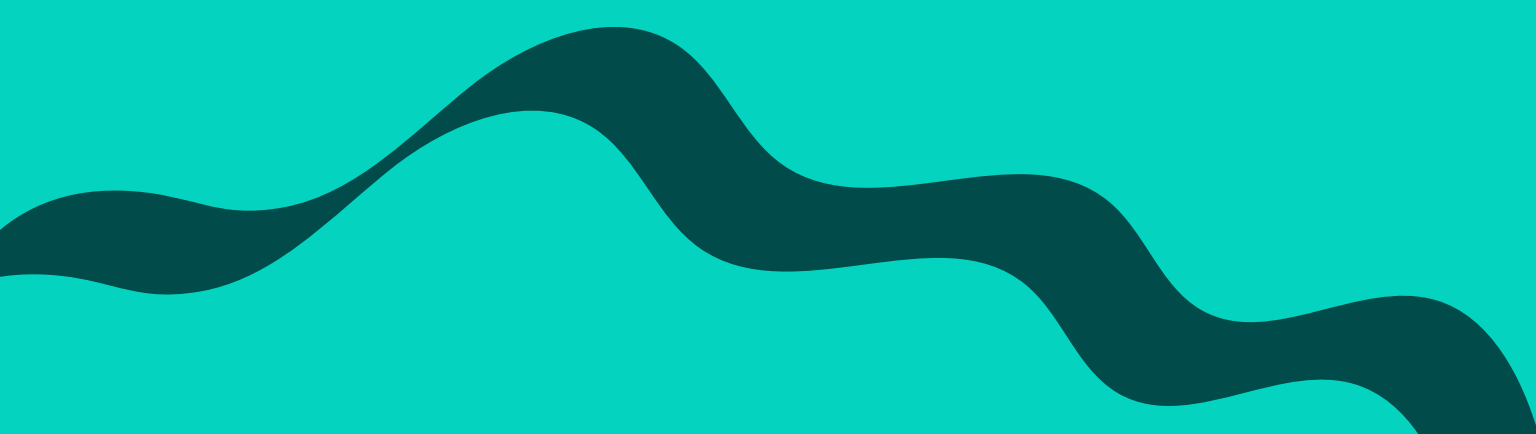
METHODOLOGY





RISK

Non-conformity of the results obtained, the implementation carried out did not give satisfactory results and did not correspond to the purpose.



WORK PLAN

W2 - W7 (TA1)

Literature Study

W5 - W6 (TA1)

Data analysis and methods

W5 - W6 (TA1)

Design

W11 - W15 (TA1)

Model Building

W14 - W15 (TA1)

Evaluation

W4 - W7 (TA2)

Browser extension implementation

W10 - W12 (TA2)

Testing

W13 - W14 (TA2)

Result and Discussion

REFERENCES

- [1] "Pengguna internet di dunia capai 4,95 miliar orang per januari 2022."
<https://databoks.katadata.co.id/datapublish/2022/02/07/pengguna-internet-di-dunia-capai-495-miliar-orang-per-januari-2022> (accessed Oct. 05, 2022)
- [2] OWASP, "OWASP top 10 - 2017 the ten most critical web application security risks," OWASP Found., pp. 1-24, 2017, [Online]. Available:
https://owasp.org/www-project-top-ten/2017/Top_10
- [3] A. Report, "The invicti appsec indicator spring 2021 edition: acunetix web vulnerability report introducing the invicti appsec indicator," p. 45, 2021, [Online]. Available: <https://www.acunetix.com/wp-content/uploads/2021/04/Invicti-AppSec-Indicator-Spring-2021-Edition-Acunetix-Web-Vulnerability-Report.pdf>