Project Report

Phishing Simulation Platform

Introduction

Phishing is a major cybersecurity threat that manipulates human behaviour to steal credentials and data. This project aims to build a safe, controlled simulation environment that replicates phishing techniques to train users and assess their awareness levels in recognizing such attacks.

Abstract

The Phishing Simulation Platform is developed using HTML and CSS to simulate real-world phishing attempts within a secure environment. The project provides realistic email and web templates that mimic legitimate sources to help organizations and individuals evaluate susceptibility to phishing attacks. It is designed purely for educational and research purposes.

Tools Used

- HTML & CSS: Designed dynamic phishing templates and interactive web interfaces.
- Visual Studio Code: Used as the integrated development environment for code editing.

Steps Involved in Building the Project:

The following systematic steps were followed in building the Phishing Simulation Platform.

- Created the project directory structure and initialized the necessary files (*index.html* and *style.css*) within a local development environment.
- Developed responsive HTML and CSS templates that replicate the appearance of legitimate login pages and emails, ensuring a realistic training experience.
- Designed a static awareness-based login page using pure HTML. Interactive behaviour was simulated using only HTML elements such as hidden checkboxes and labels to trigger warning messages,

- Ensured that no data transmission or credential storage occurs by preventing form submission using on submit="return false;". This guarantees complete user privacy and safety during demonstrations.
- Executed the project locally in a web browser and verified that all visual components and awareness prompts functioned correctly.
- Reviewed the page layout, warning messages, and user experience. Gathered feedback from test users and refined the design to enhance clarity, realism, and educational impact.

Conclusion

The Phishing Simulation Platform effectively demonstrates how phishing attacks operate, providing users with a safe and controlled environment to enhance their cybersecurity awareness. By replicating authentic login interfaces using HTML and CSS, the platform educates users on recognizing and avoiding potential threats. This project highlights the importance of proactive training in cybersecurity, combining technical implementation with user-focused learning to foster safer online behaviour.