로고, 그래픽, 상징, 등록 상표이(가) 표시된 사진

자동 생성된 설명

**Project subject Report [Team ??]**

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| Date : 2024.05.03 | | | | |
| **Mentor** | **Affiliation** | Leading the project | **Name** | Trinh Thang Viet Anh |
| **Mentee** | **University** | University of Computer Studies (Mandalay) | **Name** | Min Thet Lwin |
| **Main Topic** | XSS Scanner | | | |
| **Reasons to choose this subject** | * Why did you choose this topic?   We decided to create an XSS scanner because XSS is a prevalent web vulnerability, which is typically dangerous for web communications. This will be a great way for us to improve our security chops while helping to protect a major existing needful technology (web applications) and make something useful for free which can block by the millions - malicious requests recursive thanks. Also, it meets our interest in solving tediously bigger security issues and expanding the world of web vulnerability detection. The goal of this project is to increase our knowledge on security when dealing with web in its raw form (HTTP) traffic, understand the latest in vulnerability auditing and fixing in these areas so together we can provide developers & companies a tool that protects their web applications reliably. Working together on this challenge will also help us improve our collaboration and project deadline management, and hopefully we will be able to produce a good work with real-world impact.   * What could you learn from this project?   From this project, we could learn critical aspects of web security, specifically focusing on detecting and mitigating Cross-Site Scripting (XSS) vulnerabilities. We will enhance our technical skills in programming, vulnerability detection, and tool development. Additionally, we will gain experience in problem-solving, research, and innovation, and improve our ability to develop effective security solutions, ultimately contributing to safer web applications. This project will also teach us how to conduct thorough security assessments, design intuitive user interfaces for security tools, and apply best practices in software development. Furthermore, we will develop skills in project management, including task prioritization, time management, and collaboration, which are essential for successful project completion. | | | |
| **Project Plan** | * How do you plan to run your project?   To run our XSS scanner project, we will follow a structured approach. First, we will research XSS vulnerabilities and existing detection methods. Then, we will create a detailed project plan with specific tasks and an 8-week timeline. During the design phase, we will define the scanner's architecture and components. In development, we will build the scanning engine and user interface. Rigorous testing will ensure accuracy and reliability. After successful testing, we will deploy the scanner and provide comprehensive documentation and training. Post-deployment, we will gather feedback for continuous improvement and maintain the scanner's effectiveness through regular updates. This approach aims to deliver a robust XSS scanner that enhances web security.   * What tools will you use?   For our XSS scanner project, we will utilize Python for backend development and potentially JavaScript for frontend tasks. Tools like OWASP ZAP and Burp Suite will automate security testing, while Requests and Beautiful Soup assist in HTTP handling and content parsing. Git ensures version control, IDEs streamline coding, and databases like SQLite or MySQL store scanning results. Documentation will be managed using Markdown, with project tracking facilitated by Jira or Trello. This toolset aims to deliver a robust XSS scanner, enhancing web application security efficiently.   * Project Schedule   **Week 1: Requirement Analysis and Research**  **Week 2: Project Planning**  **Week 3: Design and Architecture**  **Week 4: Initial Development**  **Week 5: Mid-Development and Testing**  **Week 6: Advanced Development and Integration**  **Week 7: Comprehensive Testing and Debugging**  **Week 8: Deployment and Documentation**  **Post-Deployment: Feedback and Maintenance** | | | |
| **Project Results**  **(expected)** | * What results do you expect from your project?   From our XSS scanner project, we expect to achieve effective detection of various XSS vulnerabilities in different web applications. The scanner will feature a user-friendly interface, generate detailed reports on vulnerabilities with recommended fixes, and enhance web security by helping mitigate XSS risks. We aim to create a scalable and flexible tool suitable for diverse web applications. Additionally, by releasing the tool as open-source, we hope to contribute to the cybersecurity community, promoting collaboration and innovation in web security. | | | |
| **Role** | * Ex) Mentor 4 -> leading project. / Mentee1 -> (role1)   [Mentor 5] Trinh Thang Viet Anh : Leading the project.  [5] Si Thu Aung : Developing the scanning engine.  [5] Min Thet Lwin : Designing the user interface.  [5] Hein Khant Aung : Conducting testing and quality assurance. | | | |