**Project Proposal for CSCD 350 Spring 2024**

*ScanMasterX*

*V 1.0*

Team #10: UwUltimate Stardust Crusaders

<Logo if any>

Submitted By

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GitHub Repository: https://github.com/Sanmeet-EWU/github-teams-project-bid-uwultimate-stardust-crusaders/tree/main

**Motivation**

The constant threat of cyber-attacks and the rising cost of cybersecurity breaches poses a huge problem for every company, big or small. Many attacks are carried out through vulnerable systems and code, where hackers demand ransom and often get it, resulting in millions of fiscal losses for businesses. Forbes estimated there will be 10 trillion in damages caused by cybercrime by 2025 [1]. Sometimes this problem is handled after the attack is already carried out, with little remediation and ransoms paid secretly. Our solution is to catch these problems before they even happen and lessen the possibility of any threats/attacks carried out. We want to educate and bring awareness to businesses that it is very important to secure their data and network and create a tool they can use.

Our intended users are businesses and developers in general as this tool can be used by almost every sector to tell them vulnerabilities in their network and take better steps to secure their systems and data. More specifically, people who aren’t well versed in cybersecurity practices and who are non-specialists in the field could benefit greatly from ScanMaster X. This tool can be used by many different organizations/businesses including healthcare, financial institutions, educational institutions, and any business seeking to secure their system.

The cybersecurity underserved group like small businesses, non-profits, or organizations with limited IT resources face difficulties in securing their systems due to many reasons. This could be lack of expertise, resource constraints, and lack of education and proper understanding of the intricacies of securing machines and networks. Many businesses also don’t prioritize the importance of doing this, and how devastating it can be when something goes wrong.

Our solution would benefits users in many ways and their businesses (and their piece of mind). Our tool would provide ease of use for developers and people with limited cybersecurity knowledge to use and understand vulnerabilities they can fix and be aware of. This would provide a cost-effective solution where businesses wouldn’t have to hire dedicated staff or outsource to expensive security firms. This saves time as well which in turns also saves money for businesses wanting to obscure the details with network testing. Additionally, our efforts will better educate the users and lessen threats in the cyber world, hopefully reducing future attacks and creating awareness. Our solution would improve software quality and decrease costs, providing a useful tool and a benefit to these users.

**Approach**

**Challenges and Risks**

**REFERENCES**

[1] <https://www.forbes.com/advisor/education/it-and-tech/cybersecurity-statistics/>​