

Project Bid

CSCD350- Software Development Principles

Team Name: UwUltimate Stardust Crusaders

Dated: 04/04/2024

Canvas Group number: 10

Name	Email id	Project Experience	Programming Language used
Lewis Thomas	Lthomas32@ewu.edu	Automation, Unit testing, Project Management	Python, Java, SQL, KQL, Bash, PowerShell, C
William Reese	Wreese1@ewu.edu	Test automation software	Java, C/C++, Python
Eric Leachman	Eleachman04@ewu.edu	Setup/configuration for linux, windows, generalized software	Java, python, C, Powershell, Bash, SQL
Dennis Vinnikov	dvinnikov@ewu.edu	Web Applications, password generator	Java, Python, C, SQL, Bash
Alexa Darrington	adarrington@ewu.edu	Full stack project for competition, health code violation website	Python, HTML, Javascript

Choice of Projects (Brief 2–3-line description about the problem statement and type of project like a Mobile app/Webapp/Something else)

Project Choice 1(1st Preference):

Penetration Testing and Vulnerability Scanning Automation

Problem Statement: Companies often face significant financial losses and data breaches due to poor vulnerability management and default configurations. Our goal is to develop a comprehensive framework for Penetration Testing and Vulnerability Scanning that automates these processes. This framework will facilitate the assessment of default configurations and prevalent vulnerabilities, provide educational insights on system-specific vulnerabilities, and enable the detection of unrecognized devices within the network.

Project Choice 2(2nd Preference):

Automation Grading App

Problem Statement: Universities often fall behind grading assignments and sometimes students don't get adequate feedback regarding assignments and specifics. Needing to grade assignments faster, give immediate feedback, and let students know their pitfalls while lessening time and resources on professors and teaching assistants is what we hope to achieve. We want to develop a Python-based automation application that can seamlessly grade and execute scripts submitted as assignments through Canvas. The solution will involve creating an application that integrates with the Canvas API to fetch submissions, automatically

runs, and evaluates the scripts according to predefined criteria, and then uploads the grades back to Canvas, thereby streamlining the grading process for professors. Potential features depending on time will be implementing Github integrations, third party integrations, creating groups and managing a class efficiently within our application.

Project Choice 3(3rd Preference):

Desert Store Commerce App

Problem statement: A local business owner that makes custom made desserts needs a platform that can be used for the sale of her product. A full stack web application could be used to address that need. It will provide an interface to customize the orders based on the type of the dessert, size, texture, color of decorations and other additional properties.

Additional Remarks/ Inputs

Please tell us about any other factors that we should take into consideration (e.g., if you really would like to work on a project for some particularly convincing reason).

Most of us are cyber majors and/or minors so we would prefer our first project idea for resume purposes.