

CS 497 Senior Project Progress Report

Project Title: Security Lab manager

Project Engineer(s): Simon Owens

What I've accomplished so far

- Docker Container Database Built and configured
- Docker Container Nginx Built and configured
- Docker Container Django Built and configured
- Install and configured scripts generate for Windows and Linux
- Anchore Engine, Sonarqube, Jenkins Docker services setup in homelab
- OWASP ZAP scanner configured and automated via bash script
- Anchore Engine scanner configured and automated via bash script
- Sonarqube scanner configured and automated via bash script
- Jenkins configured to activate ZAP, Anchore, and Sonarqube
- Database tables created for Classes, Exercises, Users, and Administrators
- Forms that sanitize input created to map to database tables
- Views created to Display Classes, Exercises, Users, and Administrators
- Django Authentication used so that admins and users can login and view only their items
- Signup form created for users
- Signup form created for admins
- Password reset portal created
- Test data generated so users can click around to play with the project
- Tests generated for login
- view/add/remove student
- view/add/remove class
- view/add/remove exercise
- exercise submit hash box

What has been giving me trouble

- Django Authentication database tables
- CSS styling
- Postgresql data not persisting on reboot
- Django Test

Future tasking

- get button to turn on docker container
- exercise button stop
- exercise button reset
- status of exercises

I certify that I have read and discussed this progress report with the above named project engineer(s).

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Project sponsor: _____ Date: _____

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- create xss exercise
- dynamically make hash value and copy it in upon creation
- port allocator
- sql injection exercise
- cross site scripting exercise
- buffer overflow exercise
- format string exercise
- hard coded password exercise
- make sure all of these automatically load upon startup
- Grade submitted exercises(check for same answers)
- email grades button
- download to CSV
- Edit security documentation
- Edit final proposal

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