# Week-by-Week Changelog – CyberLens Project

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Duration: 12 July 2025 – 12 August 2025

## Week 1 – Project Setup & Initial Security Planning

- Project repo cloned and local development environment configured.

- Installed required tools: Node.js, MongoDB, VS Code.

- Defined secure coding guidelines (input validation, error handling, authentication rules).

- Set up `.env` for API keys & secrets (avoiding exposure on GitHub).

- Conducted initial security risk assessment on backend & frontend.

## Week 2 – API & Security Testing

- Performed API testing using Postman (login, registration, file upload).

- Conducted vulnerability scan with OWASP ZAP.

- Tested socket connections for chat features.

- Applied bug fixes in JWT authentication & session handling.

- Implemented additional validation for user inputs.

## Week 3 – Code Audit & Compliance

- Reviewed backend code for missing authentication middleware.

- Applied `jwtAuth` to secure private routes.

- Checked and validated all user inputs (email, password, file uploads).

- Implemented Snyk dependency scanning for vulnerabilities.

- Verified configuration compliance with data privacy guidelines.

## Week 4 – Final Security Review & Documentation

- Performed final vulnerability scan using OWASP ZAP & Burp Suite.

- Confirmed security policy enforcement across all endpoints.

- Documented security fixes, improvements, and recommendations.

- Delivered final project report with screenshots and test results.

- Created README.md for GitHub repo with project description & setup guide.