

# Internship Report

**Name:** Narmadha K R

**University:** Lovely Professional University

**Program:** Bachelor of Computer Applications (BCA)

**Internship Duration:** 1 month

**Internship Provider:** ElevateLabs

**Project Title:** Web App Vulnerability Scanner

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## Project Overview

As part of my internship with **ElevateLabs**, I developed a full-featured **Web App Vulnerability Scanner** using **Python** and **Flask**. The tool was designed to detect and report common web application vulnerabilities, including:

- **SQL Injection (SQLi)**
- **Cross-Site Scripting (XSS)**
- **Cross-Site Request Forgery (CSRF)**

The scanner allows users to input any target URL. It parses the HTML, identifies input forms, and injects crafted payloads to test for vulnerabilities. Results are displayed in a browser-friendly interface and downloadable in PDF or HTML report formats.

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## Key Features

- Real-time web vulnerability detection
  - Minimalist Flask Web UI with light/dark mode
  - One-click scan execution and report generation
  - Syntax-highlighted and color-coded results (XSS/SQLi/CSRF)
  - Responsive design for mobile and desktop
  - Bash launcher (run.sh) for easy deployment
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## Tech Stack & Tools

- **Programming Language:** Python 3
- **Frameworks:** Flask, Requests, BeautifulSoup
- **UI Technologies:** HTML, CSS, Bootstrap, Google Fonts
- **Reporting:** pdfkit, Jinja templates
- **OS:** Kali Linux
- **Version Control:** Git and GitHub

