Configuration Manual

MSc Industrial Internship
Cyber Security

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MSc Project Submission Sheet

School of Computing

Student Name:	Yogesh Anandhakumar		
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Programme:	MSc Cyber Security	**Year:**	2023-2024
Module:	MSc Industrial Internship		
Lecturer:	Kamil Mahajan		
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Project Title:	Hybrid Detection of Cross-Site Scripting (XSS) Vulnerability in Web Applications		
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Configuration Manual

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1 Introduction

This document is configuration manual of the tool, it consists of necessary details of the proposed tool. It has all the steps with instructions to run the tool. This document consists of all the details of the software and their versions.

Research Title: Hybrid Detection of Cross-Site Scripting (XSS) Vulnerability in Web Applications

2 System Details

The details of the system which is used for development have been mentioned below:

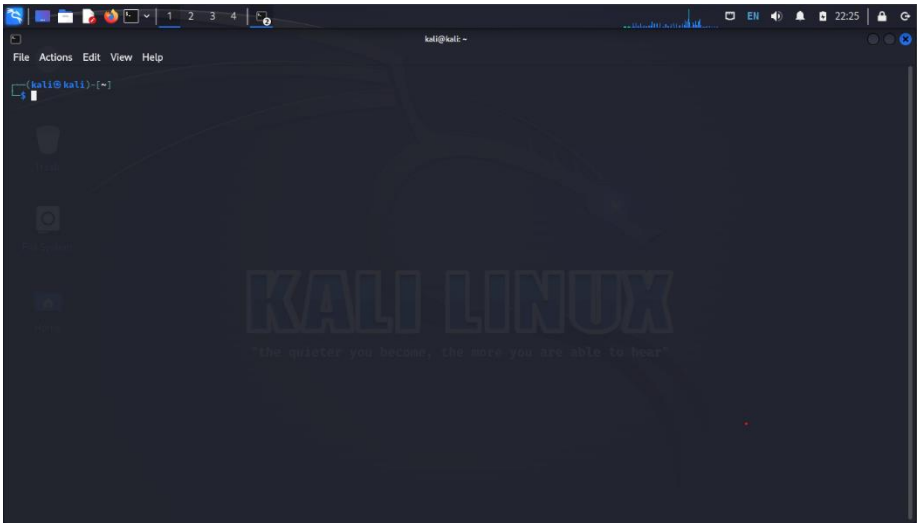
Feature	Description
Operating System	Windows 11
System information	Acer Nitro 5
Processor	i7 – 10th Gen
Memory	500MB

3 System Configuration

The proposed tool can be executed on windows and kali Linux. For executing this proposed tool in Kali Linux, the below steps can be followed.

1. Kali Linux Terminal - Download the zip file, unzip the file, and enter the tool directory. Also, the tool is uploaded in GitHub[1].

    - cd XSSFind



[1] https://github.com/Yog267/XSSFind

Figure 1 – Kali terminal

2. Create new virtual environment and activate with the below code:

    - python -m venv venv
    - source venv/bin/activate

3. There are some prerequisites that has to be installed in the system to run the tool. The tool folder has requirement.txt file which has to be used to install them. Below code has to be executed to install the dependencies.

    - pip install -r requirements.txt

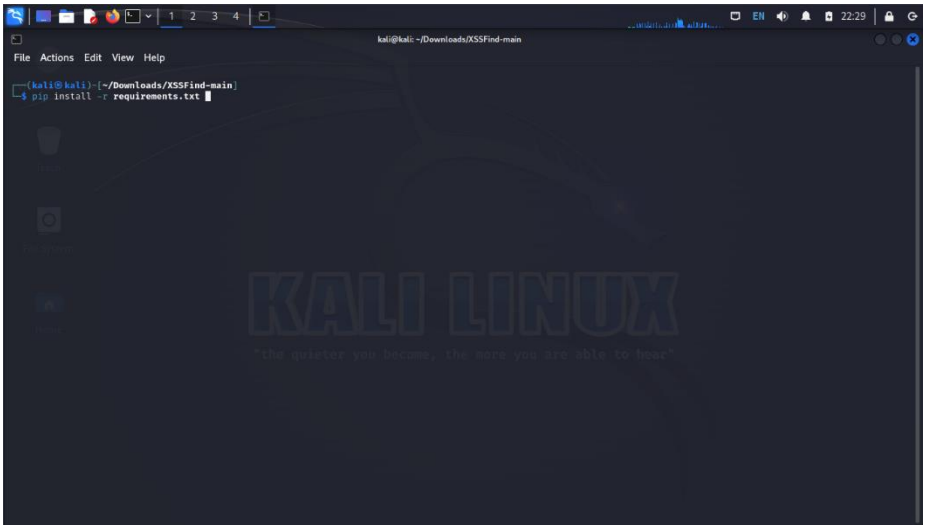


Figure 2: Installing the required prerequisites

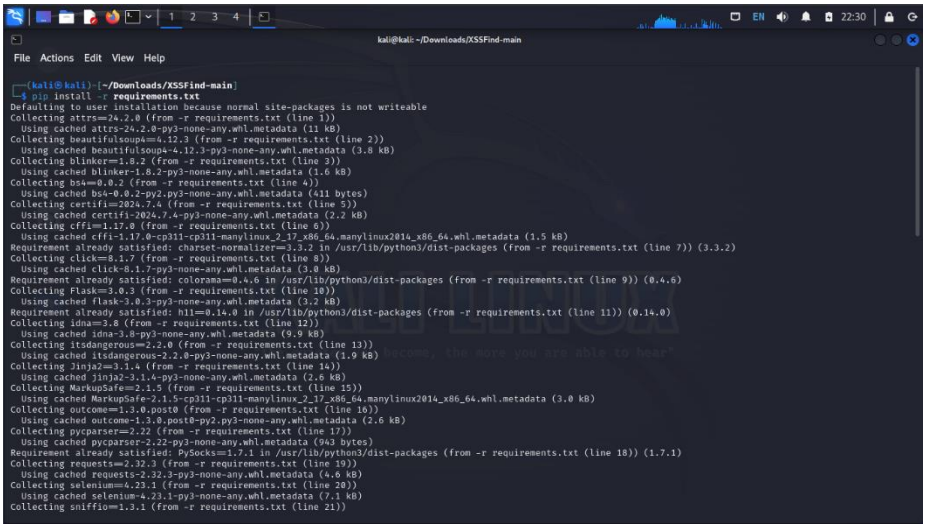


Figure 3: Installation of prerequisites

4. To run the flask application the app.py code must be executed, where the application is hosted in the localhost port 5000. The below command initiates the web UI using flask,

    - python app,py

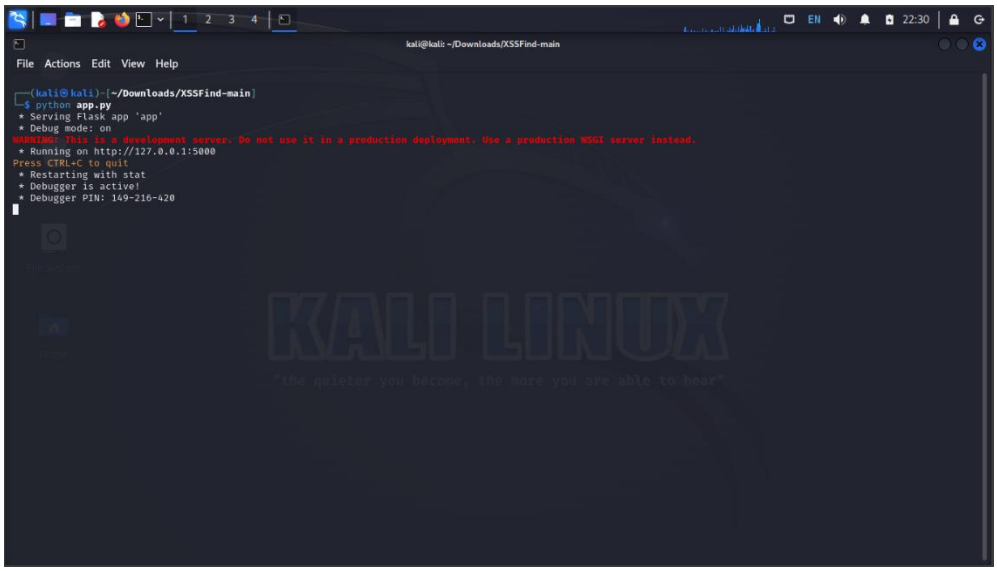


Figure 4: Executing app.py

4 Website interface

- The interface has a selection of three options SAST analysis, DAST analysis and Hybrid analysis.

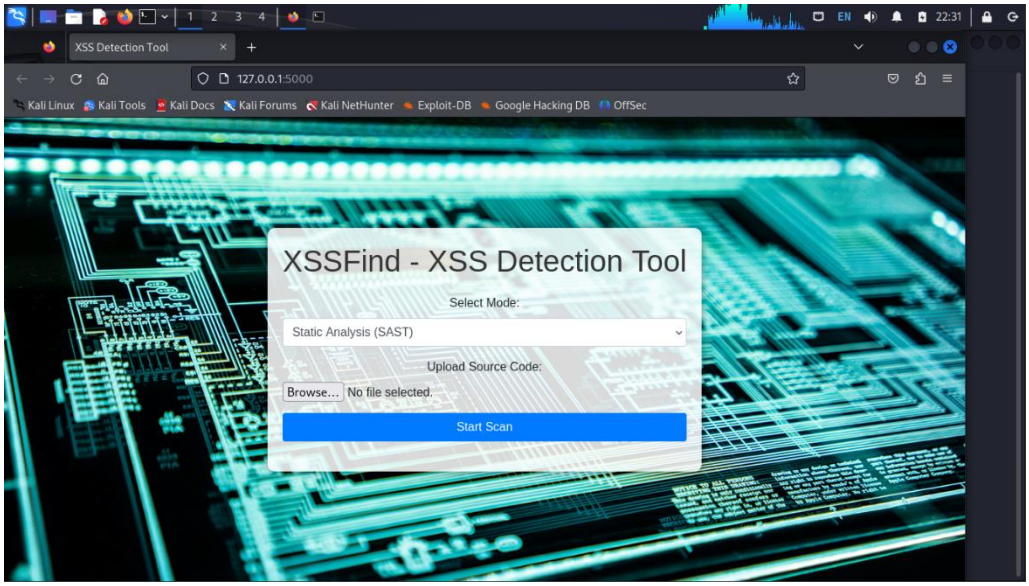


Figure 5: Interface

- If the Dynamic Analysis is chosen, then Target URL field will be available to add the website URL for analysis.

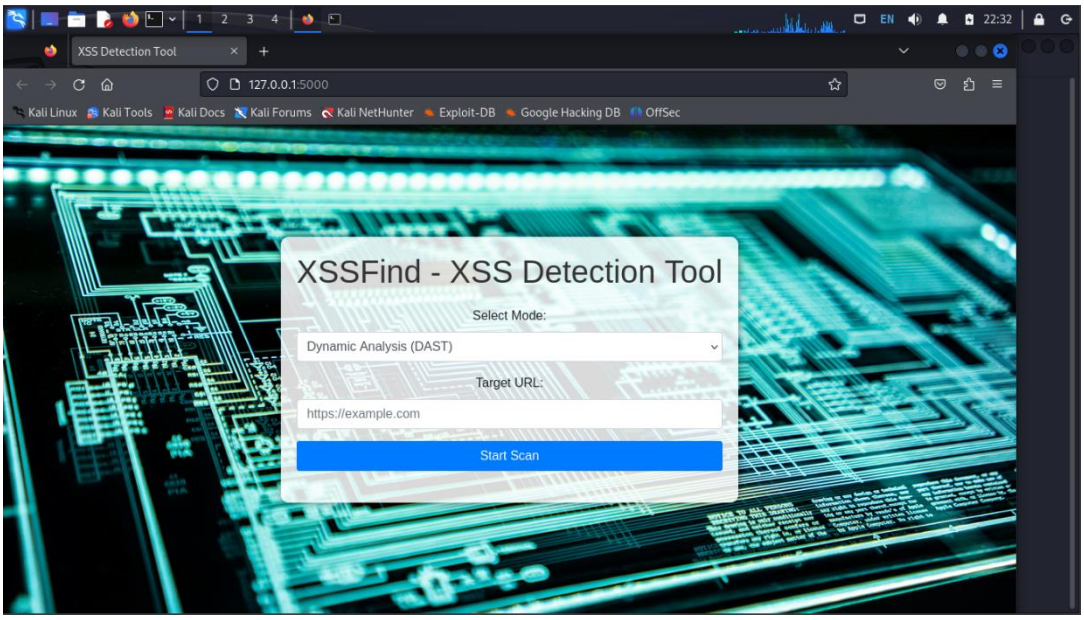


Figure 6: Dynamic Analysis

- If Static Analysis is chosen, then file upload option will be available to upload source code for analysis.

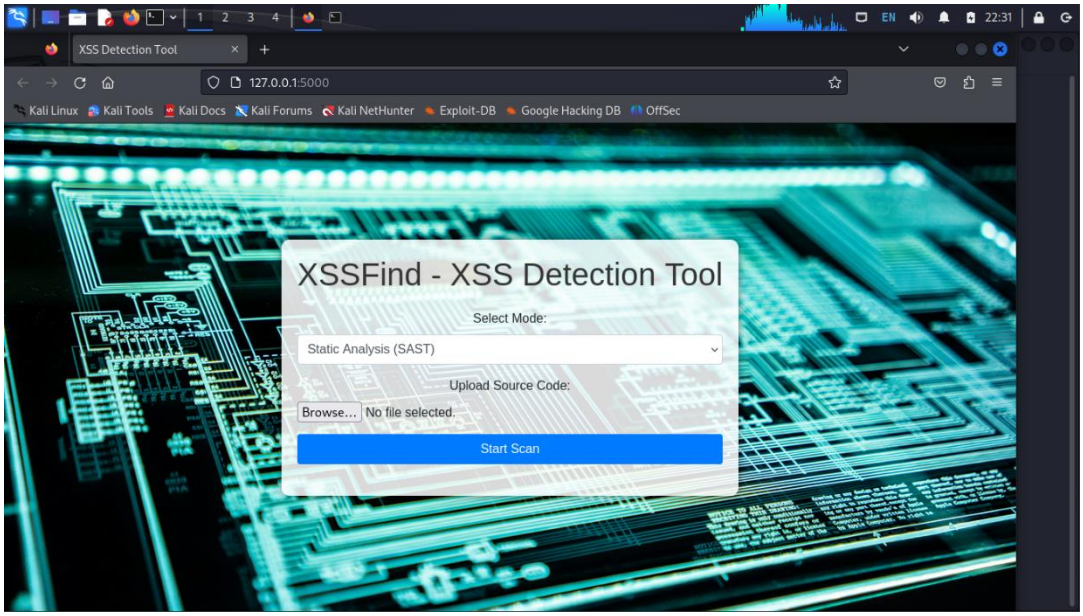


Figure 7: Static Analysis

- If Hybrid analysis is chosen it will give both the URL field and File upload option, which analyses both.

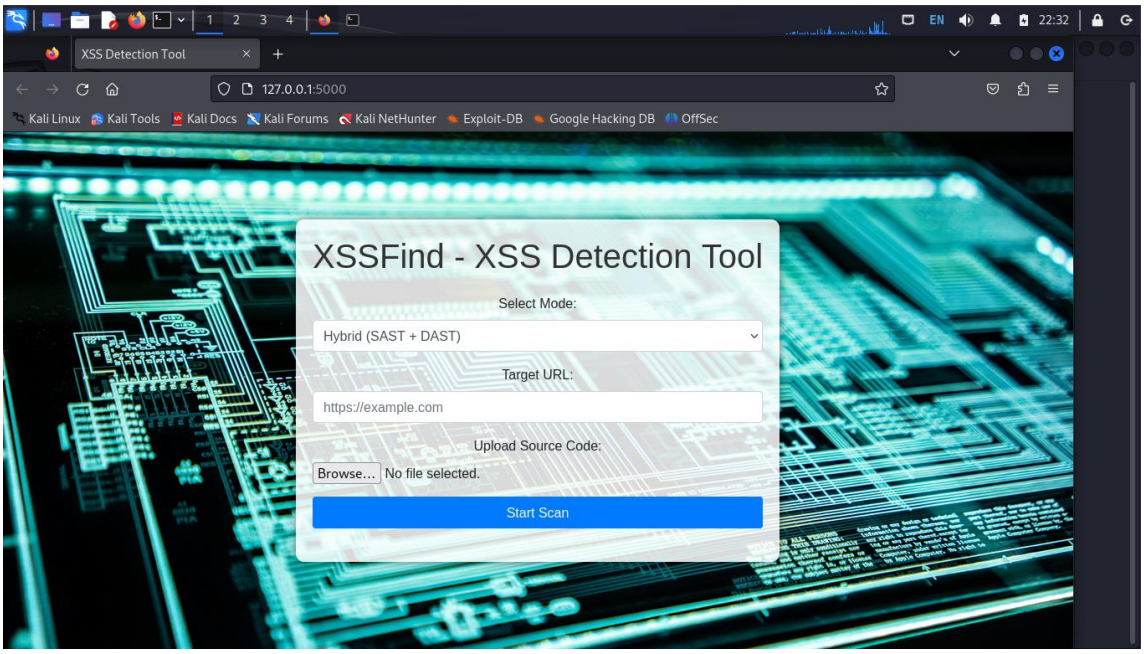


Figure 8: Hybrid analysis

- Results will be stored automatically in the form of .csv file in the same tool directory.

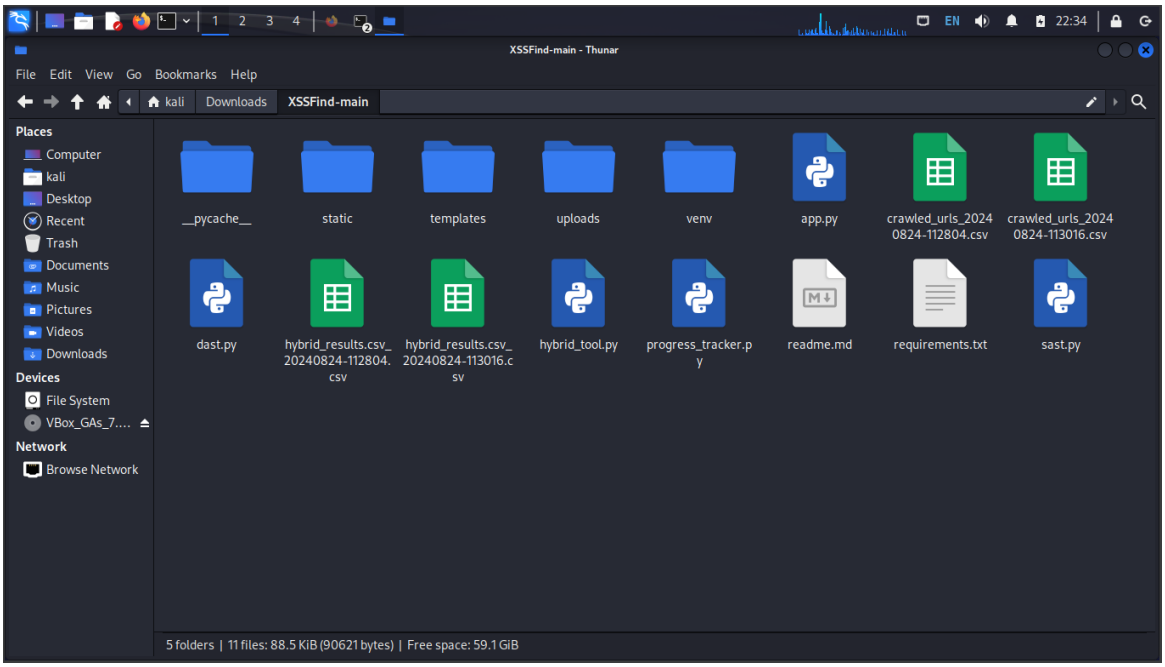


Figure 9: Results