

SCHOOL OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
U20CSPR01 - MINI PROJECT MANDATORY FORM

PROJECT TYPE: PRODUCT ☐ (OR) RESEARCH ☐ (Choose only one)

Batch Number:- IBM11

PROJECT TITLE

URL Threat Evaluation and Risk Scoring System

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Project Domain

Cybersecurity / Information Security

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Abstract

An automated URL Threat Evaluation System integrates trusted technologies, libraries, and modules for fast, reliable, and consistent website safety assessment. It performs HTTPS/SSL validation, WHOIS lookup, keyword and security header analysis, port scanning, and machine learning-based phishing detection. The system calculates risk scores, classifying sites as Safe, Suspicious, or Dangerous..

Problem Identification

With the growing number of malicious websites targeting users for data theft, malware distribution, and phishing attacks, manual inspection is inefficient and error-prone. Existing tools are often fragmented, requiring technical expertise to use effectively. There is a need for an automated, unified system that simplifies web threat detection, provides consistent risk scoring, and delivers actionable insights to all users.

Module Name (S)

1. The Input Handling Module starts the process by taking a URL from the user.
2. The URL is passed in parallel to SSL Check, WHOIS, Keyword Scan, Header Check, Port Scan, and Phishing Detection modules.
3. The Risk Scoring Module combines all results, applies predefined logic and produces a final risk score and generates report.

Expected Final Output

1. Clear risk score classifying the URL as Safe, Suspicious, or Dangerous.
2. Detailed report with SSL, WHOIS, headers, and port scan results.
3. Phishing detection result based on machine learning prediction
4. Actionable insights for user awareness and decision-making

Conference/Journal/Patent Publication Details (Mandatory)

IEEE (Institute of Electrical and Electronics Engineers) Conference