# Zypher : Empowering Users Against Cyber Threats

Explore the innovative Zypher web app, designed to enhance **cybersecurity** awareness among everyday users. This presentation will delve into features such as real-time **threat detection**, user-friendly interfaces, and educational resources, while highlighting the collaborative efforts of Code Red in our hackathon.
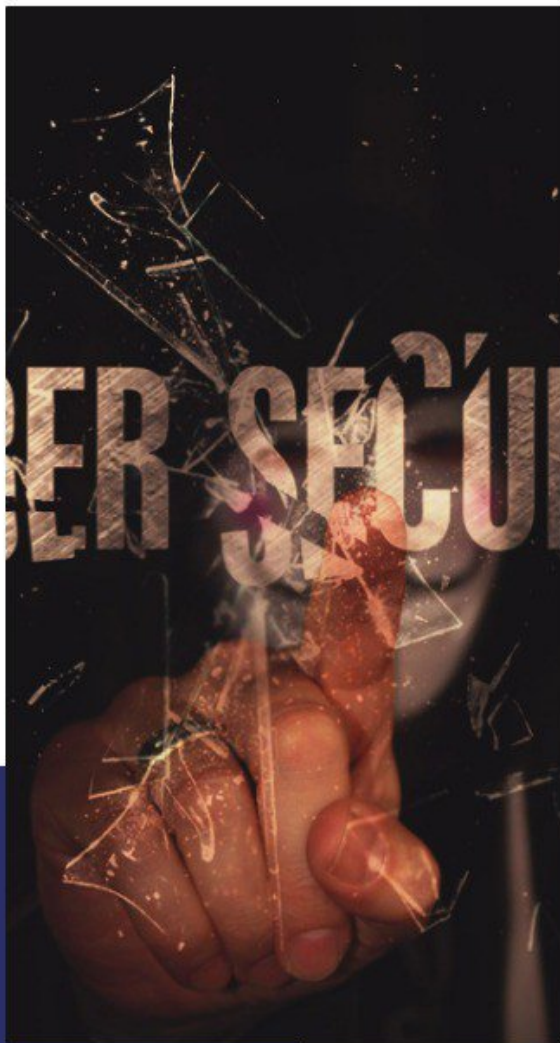
# Understanding Cyber Threats and Prevention

Explore the various forms of cyber threats and how CyberGuardian can help users identify them

- **Phishing Scams are deceptive attempts.**

  These scams aim to acquire sensitive information by pretending to be trustworthy entities, tricking users into revealing personal data and financial details, often through emails or fake websites.

- **Malware disrupts and damages systems.**

  Malware includes various forms of malicious software designed to infiltrate, damage, or gain unauthorized access to computer systems, potentially leading to data loss and breaches.

- **Identity Theft poses serious risks.**

  This involves the unauthorized use of someone else's personal information for fraudulent purposes, resulting in financial loss and significant emotional distress for the victims.

# Key Features of Zypher Web App

Explore how CyberGuardian empowers users to detect and understand cyber threats effectively

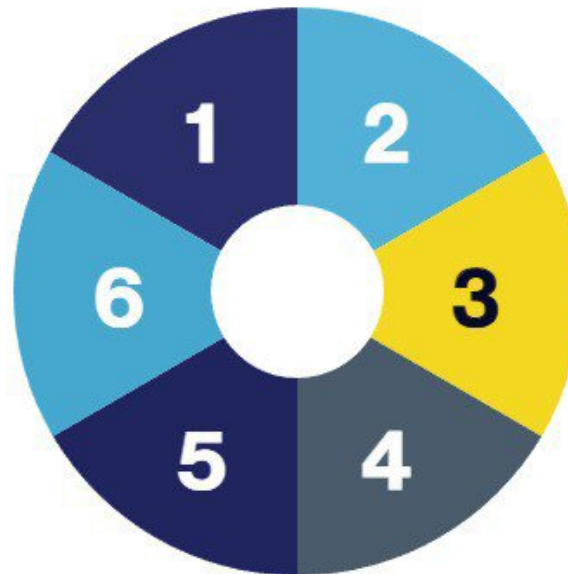**User-Friendly Interface** for all skill levels.

Designed for ease of use.

**Compromised Credentials Alerts** for user protection.

Monitors account security.

**Scam Link Identification** for safer browsing.

Alerts on dangerous links.

**Real-Time Threat Detection** alerts users immediately.

Helps users act swiftly.

**Educational Resources** improve user awareness.

Articles and tutorials provided.

**Phishing Message Detection** feature included.

Identifies potential phishing attempts.

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# Enhancing Zypher with External Resources

Integrating scam databases and APIs for real-time threat intelligence

## Integration of Scam Databases

Access to updated lists of known scams.

## Utilization of APIs

Real-time threat intelligence updates.

## Enhanced functionality of zypher

Boosts app effectiveness against threats.

## Timely information for users

Ensures accuracy in threat detection.

# Understanding Real-World Cyber Threats

Explore significant data breaches and their implications for user security and awareness.

**Target Data Breach (2013)**

Over 40 million credit card numbers were stolen due to **weak security measures**.

**Yahoo Data Breaches (2013-2014)**

Compromised data of **3 billion user accounts**, highlighting extensive impact.

**Equifax Data Breach (2017)**

Personal information of **147 million people** exposed, stressing user awareness.

**Importance of Robust Security**

These incidents emphasize the need for **strong threat detection systems**.

**Zypher's Role**

Aims to help users prevent similar situations through **education and alerts**.