



K.R. MANGALAM UNIVERSITY
THE COMPLETE WORLD OF EDUCATION

Subject: MINI PROJECT

Course Code: ENSI152

Program: B TECH CSE (Cybersecurity)

Topic: Cybersecurity Awareness Game

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CYBER SHIELD

Defend Your Digital World!!

*"An Interactive Cybersecurity
Awareness Game."*

INTRODUCTION...

WHAT IS CYBERSHIELD?

- ◆ Cybershield refers to the practice of protecting networks, systems, devices, and data from cyber threats, attacks, and unauthorized access. It ensures confidentiality, integrity, and availability of digital assets.
- ◆ **Objective**: Players learn to identify and defend against cyber threats.
- ◆ **Gameplay Style**: Choose from quiz-based, puzzle, or simulation formats.
- ◆ **Target Audience**: Employees, students, or the general public.
- ◆ **Visuals**: Show a mockup of the game interface.

Malware (Malicious Software)

Malware is any software intentionally designed to cause damage, exploit, or disrupt systems. It can come in many forms, including viruses, worms, spyware, adware, and trojans.

Phishing

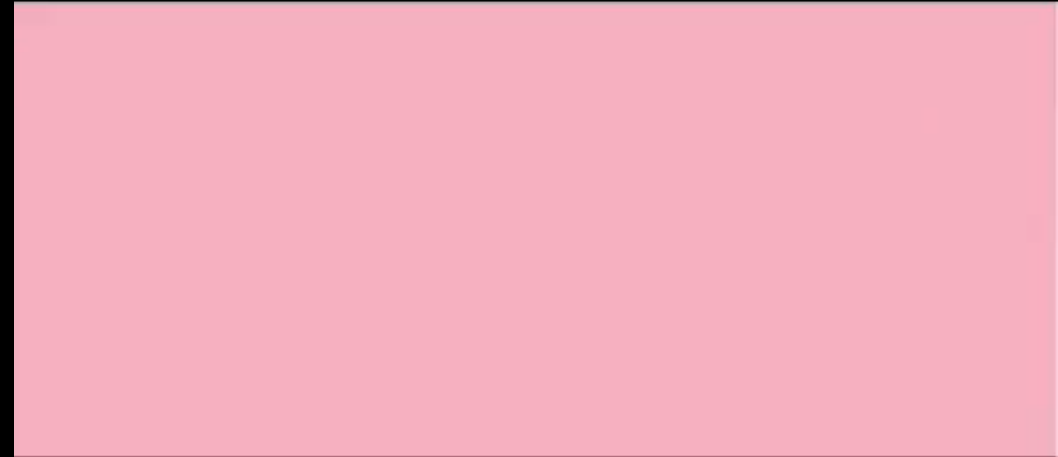
Phishing is a method of fraud where attackers impersonate legitimate institutions (e.g., banks, government agencies, online services) to trick individuals into revealing personal or financial information. It often occurs via email but can also happen through fake websites, phone calls, or text messages.

Ransomware

Ransomware is a type of malware that encrypts files on a victim's system and demands payment (usually in cryptocurrency) for the decryption key. It can spread through phishing emails, malicious downloads, or vulnerabilities in software

CYBER

THREATS



GAME OVERVIEW:-

- ◆ Mechanics: Quiz , Puzzle, simulation and so on.
- ◆ User interference: Menu, Sidebar, Hover and tooltip feature.
- ◆ Levels and Challenges: Different modes for different targets.

Missions & Challenges

Phishing Attack: Spot fake emails and links.

Malware Defense: Secure a system using firewalls and antivirus.

Scoring System: Players earn points for correct actions and lose points for risky decisions.

Demo: Show a short gameplay walkthrough.

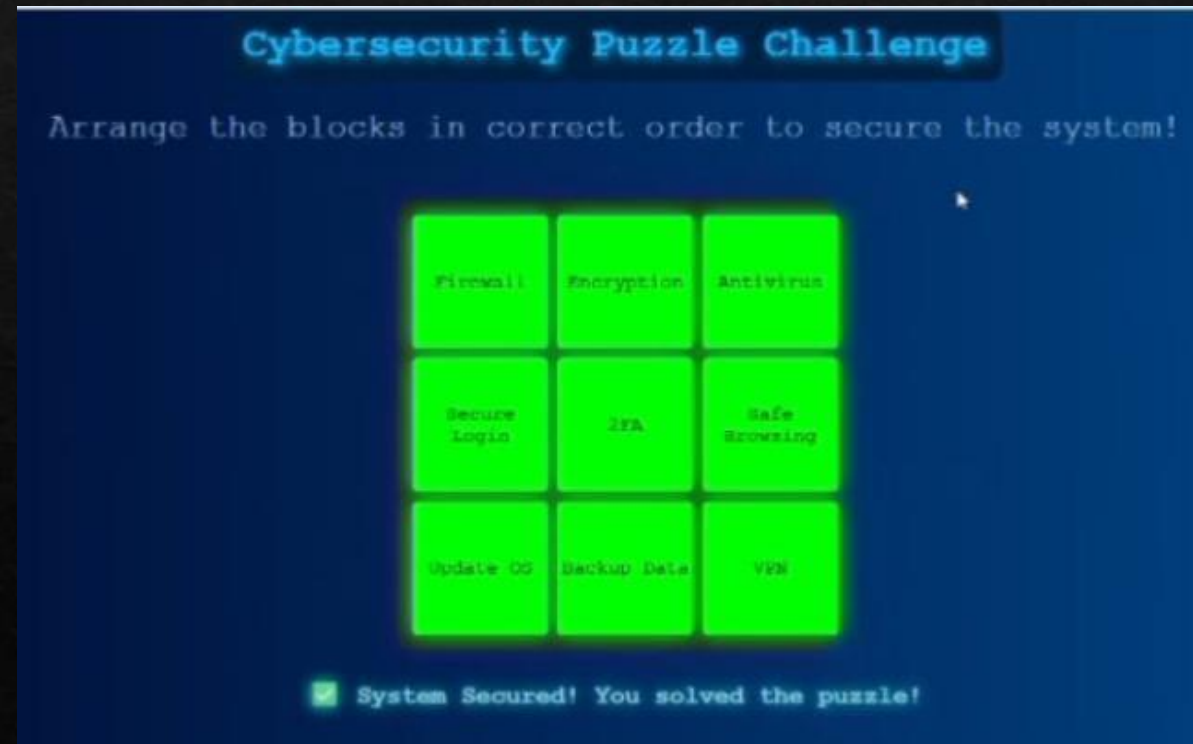
Cyber Quiz :

- ❖ Cyber Quiz is a fun and engaging way to learn new things. It contains 4 different levels and each level contains 10 questions including MCQs and true/false. Take a look at images from our quiz.



Cybersecurity Puzzle:

- ❖ Cybersecurity puzzle is a 3*3 puzzle including cybersecurity steps to secure your system (i.e. 2FA, Safe browsing, Encryption etc). You have to arrange the blocks in a correct order and it will glow green which means your system is secured.



Cyber Threat Simulation:

- ◇ It contains different modes of simulation like
 - ❑ Ransomware mission
 - ❑ Phishing mission
 - ❑ Malware mission

Each one of them have different simulation with their solution in choice. Every correct answer gives 5 marks and negative marks for wrong answer.



REAL-WORLD IMPACT

The Cyber Shield game is designed not just for entertainment but for real-world cybersecurity awareness and skill-building. Here's how it can make a tangible difference:

Improving Cybersecurity Awareness Education Through Gamification:

People remember 90% of what they do versus 10% of what they read. Cyber Shield makes cybersecurity engaging and interactive instead of just theoretical learning.

How Cyber Shield Helps:

Phishing Simulation Training – Players analyze emails, spot fake URLs, and identify social engineering tricks.

Realistic Scenarios – The game includes email inbox challenges where players must distinguish between legitimate and fraudulent emails.

Instant Feedback & Learning – If players click a malicious link, they learn why it was dangerous and how to spot it next time.



BENEFITS:-

1. Increased Cyber Awareness – Players become more vigilant and aware of digital threats.
2. Real-World Application – Teaches practical skills to handle phishing, ransomware, and malware.
3. Reduced Risk – Lowers chances of falling victim to cyberattacks.

CONCLUSION:-

1. Cyber Shield as a Real-World Defense Tool
2. Prepares users to recognize and stop phishing, ransomware, and malware attacks.
3. Improves cybersecurity hygiene for individuals, businesses, and organizations. Reduces financial losses caused by cybercrime through education and prevention.



**THANK
YOU**