Basic Details of the Team and Problem Statement

HackToFuture-2024

In Association with

The Institution of Engineers (India)
Local Centre, Belagavi

Domain : Cybersecurity

PS Code: CS01

Problem Statement Title: CyberGuard: Gamifying Cybersecurity Awareness for Safer Online Practices

Team Name: fs0cie1y

Team Leader Name: Koushal S Kedari

Institute Name: KLS GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI

Idea/Approach Details

- ❖ CyberGuard is a web-based mobile application designed to educate users on cybersecurity threats through an engaging, gamified experience. The app offers interactive high-graphics quizzes and real-world scenarios to help users identify and mitigate various online threats. Additionally, it provides tools such as a strong password checker and a password leak checker to enhance users' security practices.

Core Features:

- ➢ Interactive Quizzes:

Real-World Scenarios: Quizzes simulate real-world cybersecurity threats like phishing attempts, fraudulent SMS, malicious links, fake apps, and crypto scams.

- ➢ Simulated Challenges:

Phishing Identification: Users learn to identify phishing emails and websites through interactive challenges.

Fraud SMS and Links: Simulations help users recognize fraudulent SMS messages and dangerous links.

- ➢ Addon Features:

Strong Password Checker: Users can input their passwords to get feedback on their strength and tips for improvement.

Password Leak Checker: The app can check if users' passwords have been compromised in data breaches using APIs from services like Have I Been Pwned

Describe your Technology stack here:

- ➢ Html, CSS, JS
- ➢ BabylonJS
- ➢ MongoDB

Idea/Approach Details

Core Features:

Interactive Quizzes:

- Real-World Scenarios: Quizzes simulate real-world cybersecurity threats like phishing attempts, fraudulent SMS, malicious links, fake apps, and crypto scams.

High-Graphics Interactivity: Using advanced JavaScript libraries (e.g., Three.js for 3D graphics, D3.js for data visualization), quizzes are visually engaging and interactive.

- Simulated Challenges:

Phishing Identification: Users learn to identify phishing emails and websites through interactive challenges.

Fraud SMS and Links: Simulations help users recognize fraudulent SMS messages and dangerous links.

Fraudulent Apps Identification: Users practice distinguishing between legitimate and fake apps.

- Addon Features:

Strong Password Checker: Users can input their passwords to get feedback on their strength and tips for improvement.

Password Leak Checker: The app can check if users' passwords have been compromised in data breaches using APIs from services like Have I Been Pwned.

Idea/Approach Details

Describe your Use Cases here

- Educational Institutions:

Use Case: Cybersecurity Education for Students
Application: Schools, colleges, and universities can integrate CyberGuard into their curriculum to teach students about cybersecurity threats

- Corporate Training Programs:

Use Case: Employee Cybersecurity Training
Application: Companies can use CyberGuard to train employees on cybersecurity best practices. Employees can participate in gamified learning modules and simulations that teach them to recognize phishing attempts, fraudulent emails, and other cyber threats.

- Public Awareness Campaigns:

- Use Case: Raising Public Awareness about Cybersecurity
- Application: Government and non-profit organizations can deploy CyberGuard as part of public awareness campaigns to educate citizens about online safety

Describe your Dependencies

- Technical Dependencies:

Web Technologies: Proficient knowledge of HTML5, CSS3, and JavaScript.
Graphics Libraries: Familiarity with libraries like Three.js, PixiJS, or D3.js for creating high-graphics content.
Backend Development: Experience with Node.js and Express.js for server-side logic.
Database Management: Knowledge of MongoDB or Firebase for managing user data and training content.
APIs Integration: Integration with third-party APIs (e.g., Have I Been Pwned) for additional features like password leak checking.

- Infrastructure Dependencies:

Hosting Services: Reliable web hosting services to deploy the web app.
Cloud Services: Cloud storage solutions for user data and assets.
Content Delivery Network (CDN): For fast and efficient content delivery.

Team Member Details

Team Leader Name: Koushal S Kedari.

Branch: BE, Stream:ISE, Year: II.

Team Member 1 Name: Laxman Desai

Branch: BE, Stream:ISE, Year: II.

Team Member 2 Name: Pratik Sadekar

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Team Member 3 Name: Ian D'Souza

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