



INNOVENTURE HACKATHON

E-SUMMIT'26
WHERE PASSION TURNS INTO PROFESSION

- **Problem Statement Title-** CyberSakshar – AI-Powered Cyber Hub (Citizen Perspective)
- **Education Theme-** Student Innovation
- **Team Name -** Team Elite
- **Team Leader :** Aditya Honrao
member 1 : Anshu Raut
member 2 : Vivek Jangam
member 3 : Swaraj Mohite



Problem Statement

In the current digital era, the rapid expansion of internet usage has led to a parallel rise in cyber threats and crimes. While digital literacy is growing, **cybersecurity awareness remains significantly underdeveloped**, particularly among students, rural populations, and general citizens.

Key Issues Identified -

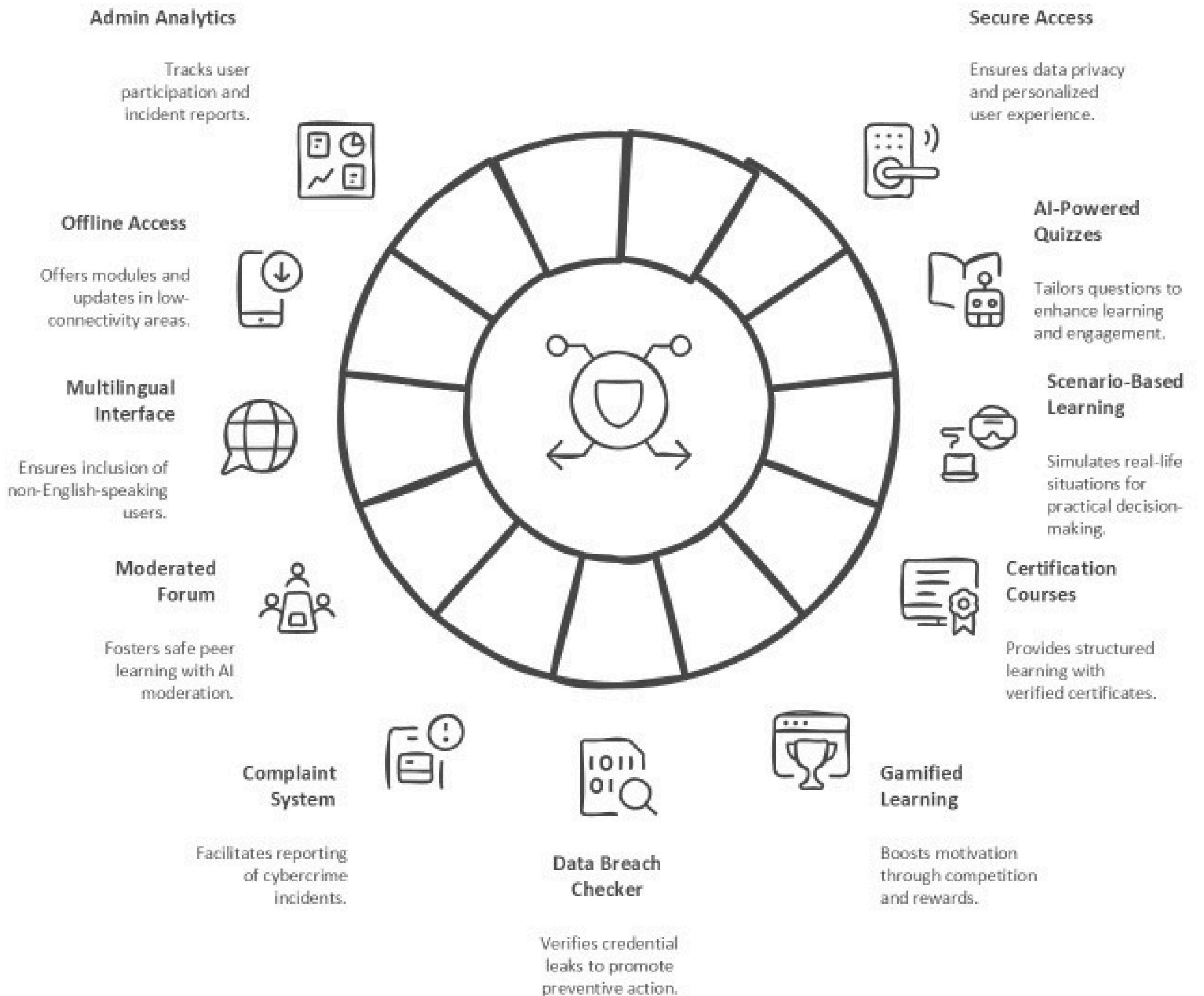
- **Lack of Structured Cyber Awareness Education:** Most educational institutions do not provide formal cyber safety training to students.
- **Absence of Regional and Age-Specific Learning Platforms:** There are limited resources available in local languages or tailored to specific age groups.
- **Low Reporting and Awareness of Cybercrimes:** Victims often do not report incidents due to stigma, lack of understanding, or fear of consequences.
- **Inadequate Tools for Self-Assessment and Learning:** Users lack access to platforms that offer interactive self-tests, gamified learning, or certification opportunities.
- **Unsafe Platforms for Discussion and Peer Support:** Social media is often misused or lacks moderation, leading to misinformation or unsafe interactions.

According to the **National Crime Records Bureau (NCRB)**, India reported over **65,000 cybercrime cases in 2022**, showing a significant increase over previous years.

Teenagers and senior citizens are among the most vulnerable groups targeted by cyber frauds, including phishing, fake applications, and social engineering.

A 2023 **Kaspersky India Survey** revealed that only **18% of users regularly update their credentials or check their data breach status**.

Proposed Solution



CyberSakshar offers a **comprehensive and accessible platform** to improve cybersecurity awareness across diverse user groups. Through **AI-powered personalized quizzes** and **scenario-based learning**, users gain practical knowledge tailored to their skill level. **Certified micro-courses** provide structured learning with digital credentials, while a **gamified dashboard** encourages continuous engagement. The platform includes a **data breach checker** to alert users about compromised credentials and a **complaint registration system** to streamline cybercrime reporting. A **moderated discussion forum** enables safe peer interaction, and **multilingual with offline access** ensures inclusion of rural and low-connectivity users. The **admin analytics dashboard** supports continuous monitoring and platform enhancement based on user behavior and trends.

Innovation / Uniqueness



First platform to **integrate personalized AI learning with complaint registration**.

Offers **scenario-based simulations** unlike traditional static content.

Combines **gamified education with certified micro-courses** for formal recognition.

Ensures **inclusive access through multilingual support and offline availability**.

Provides a **safe, moderated community forum** fostering collaboration.

Delivers a **holistic, all-in-one cybersecurity education ecosystem**, unlike fragmented tools.

CyberSakshar uses **AI-adaptive learning** to personalize cybersecurity education and offers **real-world scenario simulations** for practical skill development. It integrates **gamification** to enhance user engagement and includes a **complaint registration system** for active cybercrime reporting. The platform supports **multilingual and offline access** to maximize reach and features a **moderated forum** for peer learning. Additionally, it leverages **admin dashboard analytics** to continuously improve the system.

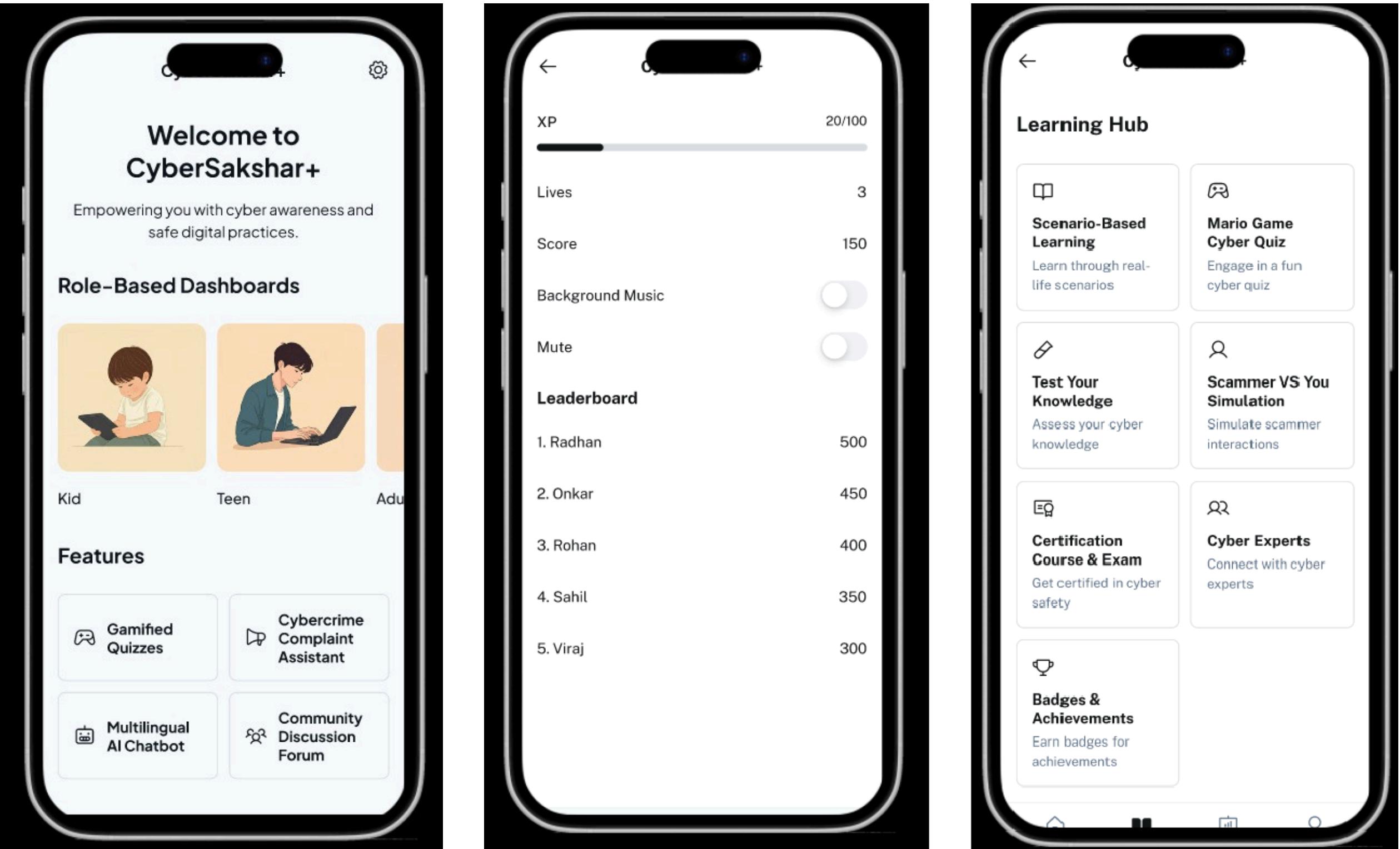
Current Progress



We have designed UI Prototype of our webApp - **CyberSakshar** .

Go through it !

Also we have made Our Solution Explanation Video : [CyberSakshar](#)



Tech Stack

- **Frontend:** HTML5, CSS3, React.js
- **Backend:** Node.js, Express.js
- **Database:** MongoDB, Supabase (PostgreSQL)
- **AI/ML:** Python (TensorFlow, Scikit-learn)
- **Authentication:** FirebaseAuth, JWT
- **Multilingual Support:** Google Translator API, i18n libraries
- **Offline & Mobile:** Progressive Web App (PWA) technology
- **Cloud & Deployment:** AWS / Azure Cloud, Docker containers
- **APIs:** RESTful APIs for modular integration
- **Version Control & Testing:** Git, Postman



CyberSakshar creates a safer digital society by empowering individuals with the knowledge and tools to protect themselves from cyber threats. By focusing on accessibility and community engagement, it reduces digital inequalities and promotes responsible online behavior, contributing to the overall well-being and security of communities, especially in underserved regions.

- **Cybersecurity Awareness:** Raises awareness among diverse users, increasing vigilance and preparedness.
- **Skill Development:** AI-driven adaptive learning and scenario simulations build practical cyber risk response skills.
- **Digital Inclusion:** Multilingual and offline support bridges the digital divide for underserved communities.
- **Community Building:** Moderated forums enable knowledge sharing and expert support.
- **Cybercrime Reporting:** Complaint registration empowers efficient reporting and strengthens safety.
- **Continuous Improvement:** Real-time analytics drive platform evolution and relevance.
- **Personalized Learning:** Tailored content boosts engagement and retention.
- **Practical Experience:** Hands-on scenario-based training for real-life challenges.
- **Motivation & Recognition:** Gamification with badges and certifications encourages learning.
- **Accessibility:** Multilingual and offline access widen usability.
- **Support System:** Forums and expert guidance enhance user confidence.
- **Data-Driven Management:** Admin dashboard enables targeted improvements and user satisfaction.



RESEARCH AND REFERENCES

Research :

CERT-IN Reports & Guidelines – Insights into India's cyber threat landscape and security frameworks. : <https://www.cert-in.org.in>
National Cyber Security Policy (GoI) – Guidelines supporting secure digital practices and education. <https://www.meity.gov.in>
NCRB Cybercrime Statistics – Official crime data indicating a surge in cyber-related incidents. : <https://ncrb.gov.in>
UNESCO Digital Reports – Research on digital literacy gaps and need for inclusive education. : <https://www.unicef.org>

Platform Benchmarks :

Cyber Aware (UK Govt) – Public awareness platform lacking gamification or scenario-based learning.

🔗 <https://www.cyberaware.gov.uk>

- **Cybrary** – Skill-based training for professionals; less suited for general public or rural users.

🔗 <https://www.cybrary.it>

- **TryHackMe** – Gamified learning, but not multilingual or inclusion-focused.

🔗 <https://tryhackme.com>

- **InfoSec Institute** – Advanced training modules; lacks regional adaptation and accessibility.

🔗 <https://www.infosecinstitute.com>

THANKU !