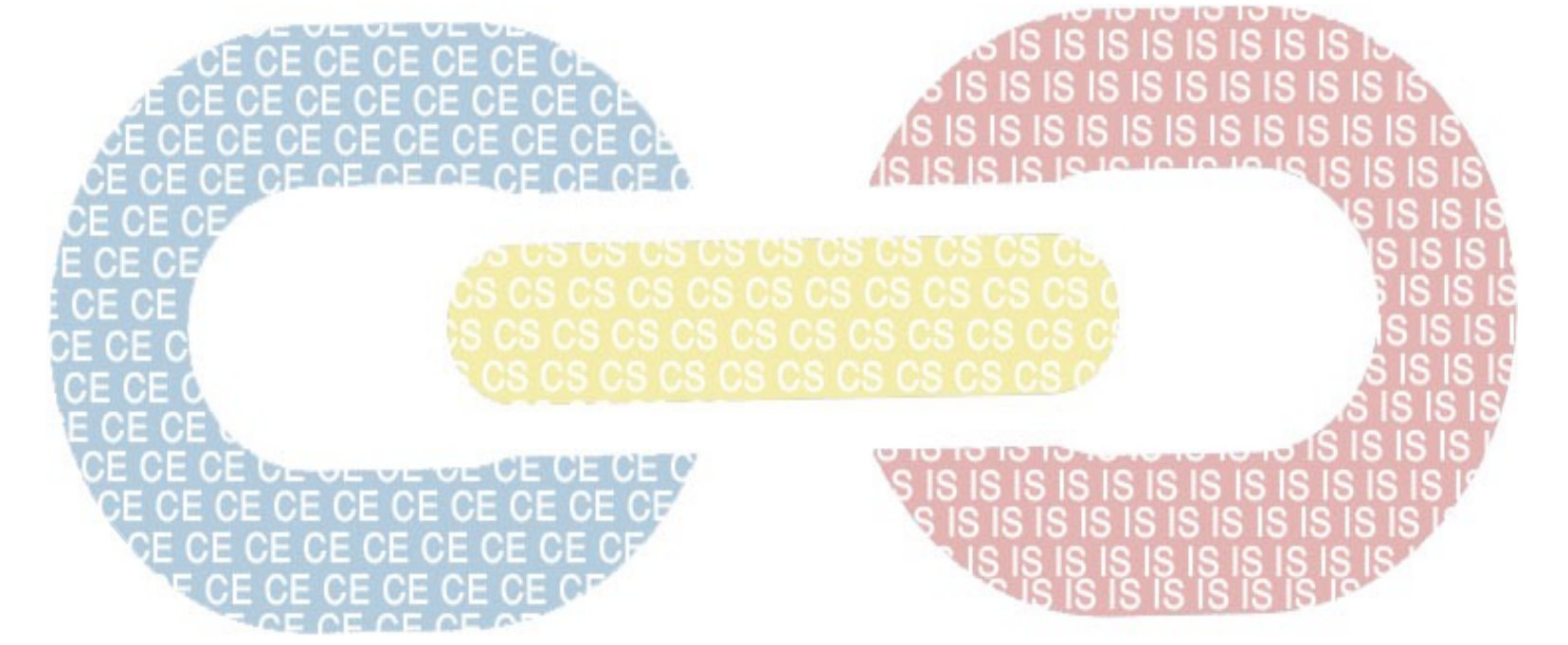




**UNIVERSITY OF BAHRAIN
COLLEGE OF INFORMATION TECHNOLOGY
CYBERSECURITY SENIOR PROJECTS**



A Behavior-Oriented Web-Based Cybersecurity Awareness and Assessment System for Organizations (Corporate CyberAware)

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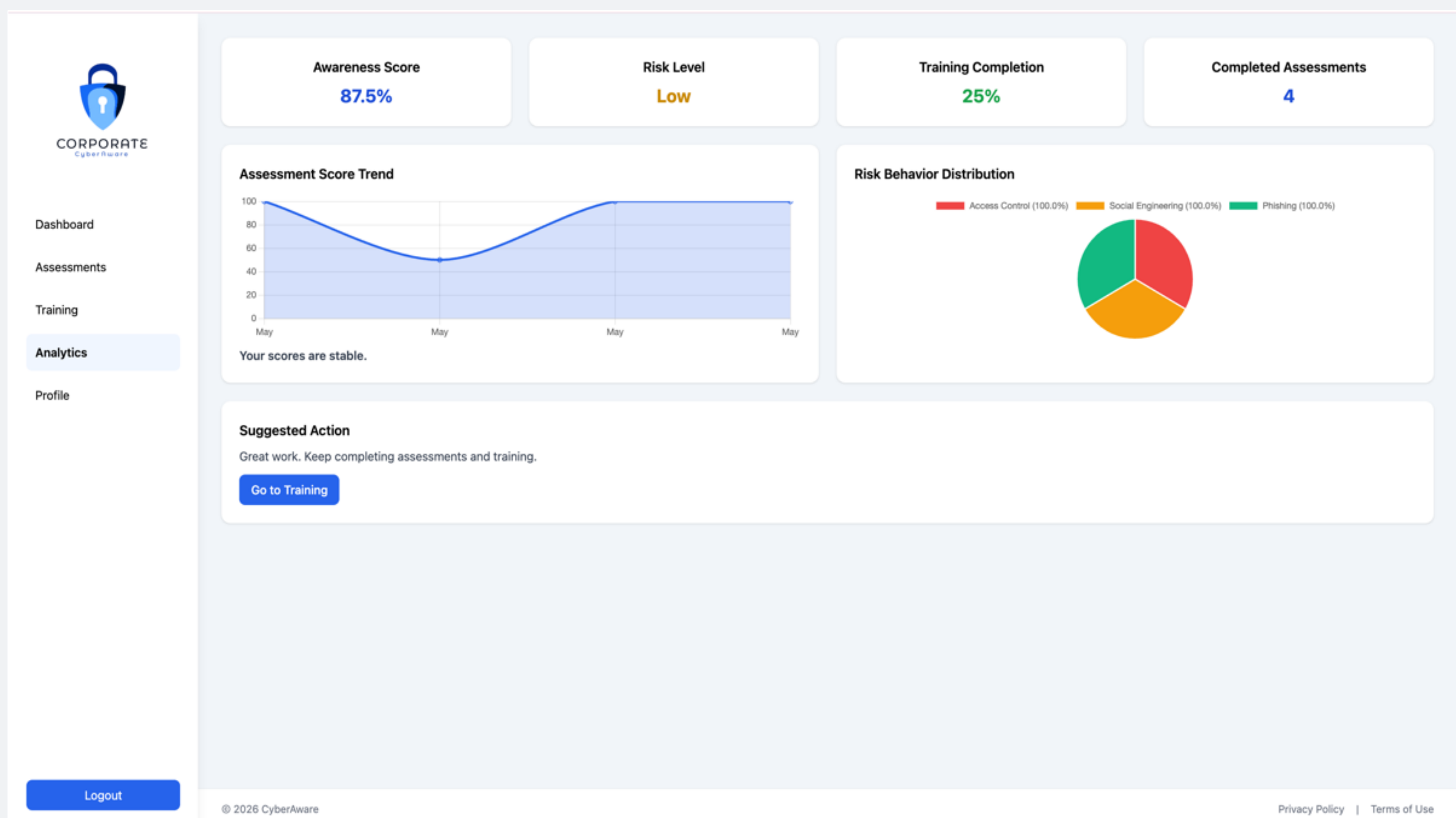
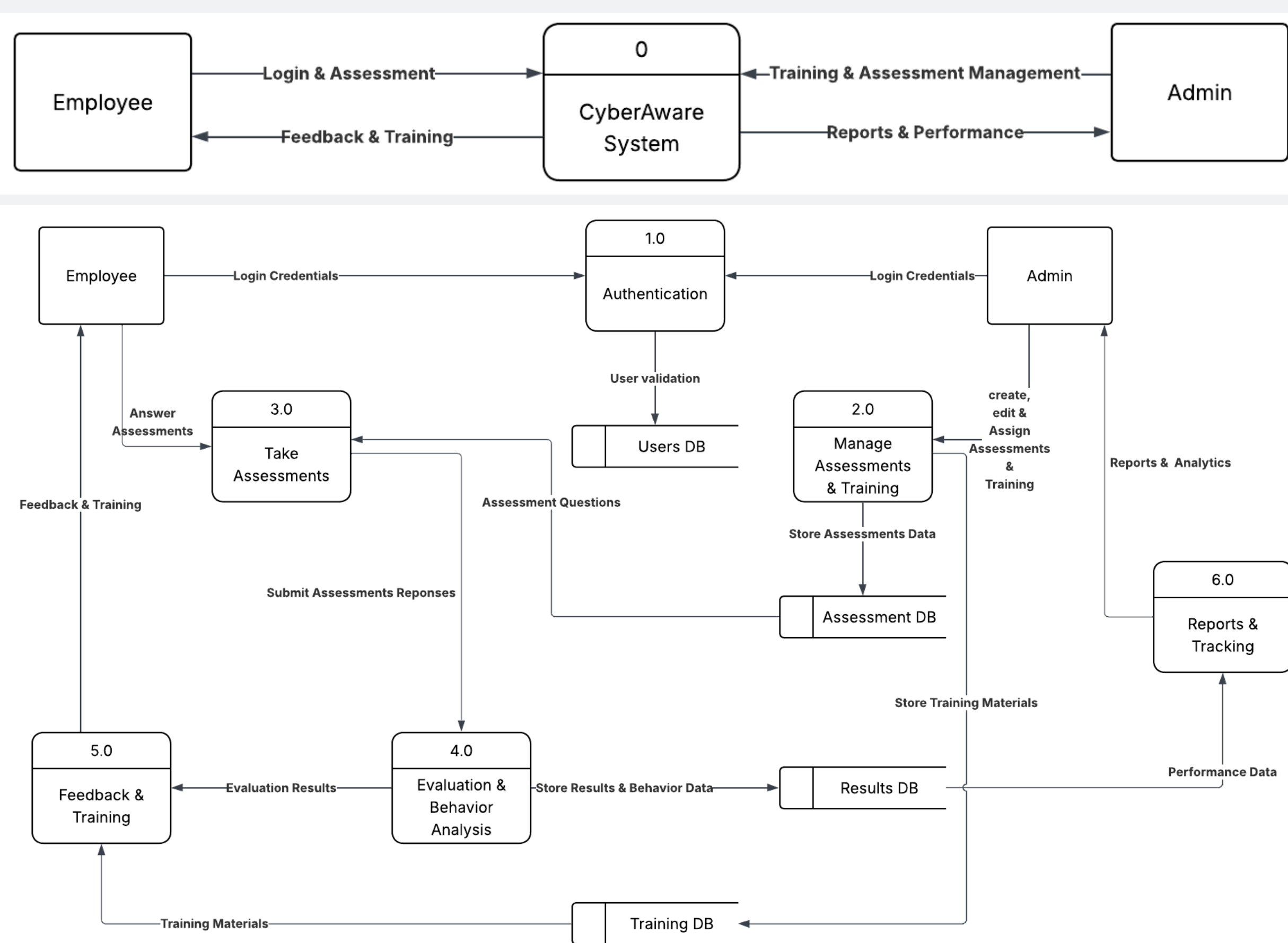
ABSTRACT

In the world of technology, cybersecurity incidents have become increasingly prevalent and are often driven by human behavior rather than just technical failure. Our project aims to address this issue by introducing Corporate CyberAware, a behavior-oriented web-based system designed to elevate how companies deal with employees' cybersecurity awareness. In traditional programs, they often rely on one-time training and do not really measure user behavior, leaving companies weak and open for threats like phishing and bad security practices. In order to close this gap, our project provides continuous assessments, tracking user performance, and phishing simulations to keep track of and evaluate employee behavior over time. Our system strives to offer an adaptive and interactive learning environment and shift cybersecurity awareness from static to continuous and behavioral, enabling companies to reduce human-related cybersecurity risks.

OBJECTIVES

- Develop a behavior-oriented web-based cybersecurity awareness and assessment system for organizations.
- Track employee performance and behavioral patterns to identify cybersecurity weaknesses.
- Deliver interactive training modules to improve secure cybersecurity practices among employees.
- Shift cybersecurity awareness from one-time training into a continuous behavioral improvement process.

METHODS/DIAGRAMS/FIGURES



RESULTS

- Developed a fully functional web-based cybersecurity awareness system.
- Implemented assessments, training modules, phishing simulations, and performance tracking.
- Enabled continuous behavioral evaluation instead of one-time awareness training.
- Improved organizational monitoring of employee cybersecurity awareness levels.

CONCLUSION & FUTURE WORK

- Improves organizational cybersecurity awareness through continuous assessments, behavioral analysis, training modules, and phishing simulations.
- Helps reduce human-related cybersecurity risks and supports continuous employee awareness improvement.
- Future enhancements may include AI-based personalized training, a mobile application version for more realistic simulations, and deployment within real organizational environments.