UNIFIED DLP SOLUTIONS FOR EMAIL SYSTEM

Project Id: TMP-2023-24-082

Status Document - 01

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B.Sc. (Hons) Degree in Information Technology

Specialization in Cyber Security

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Sri Lanka

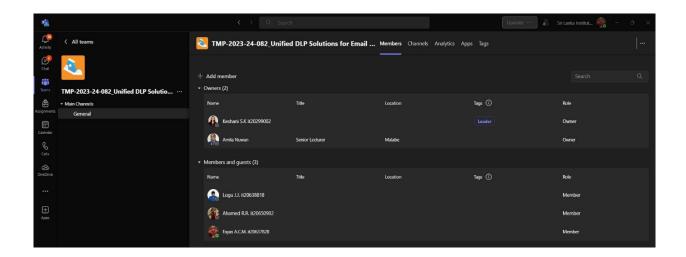
December 2023

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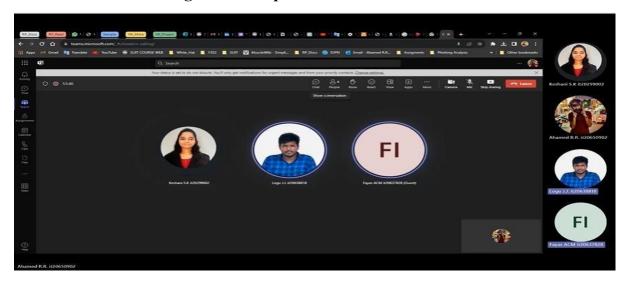
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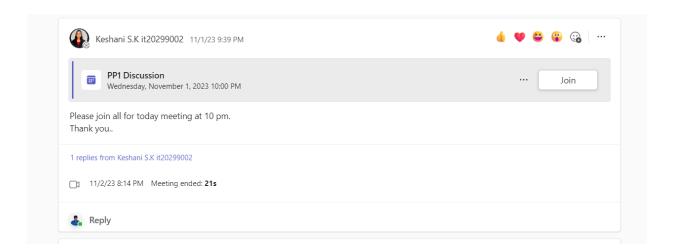
1. Microsoft Teams Details

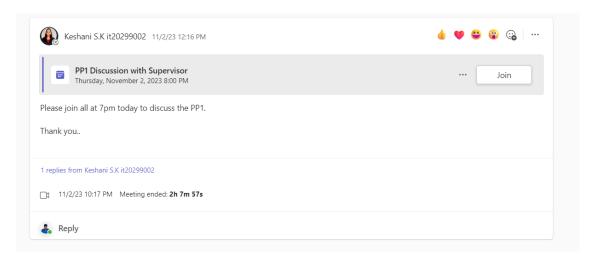
1.1 Team Members

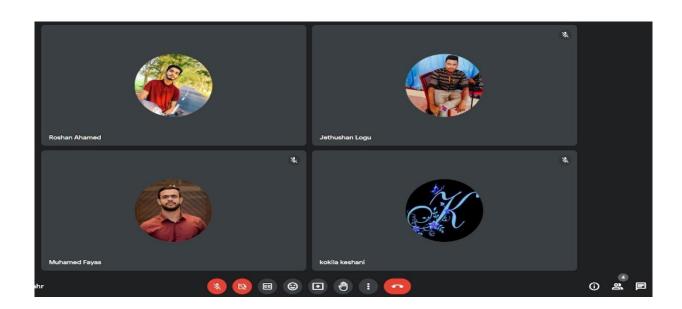


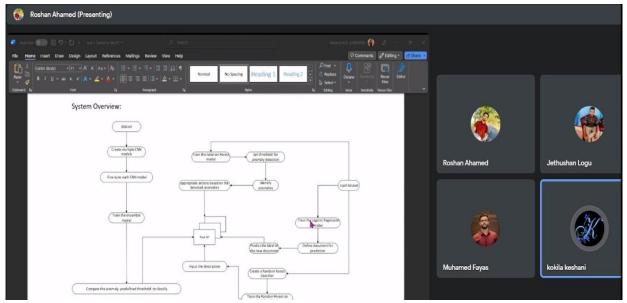
1.2 Team meeting with Group Members



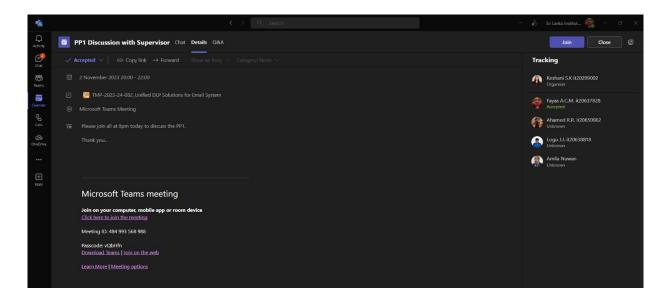


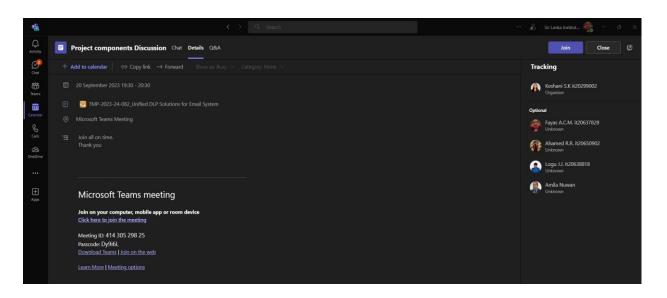


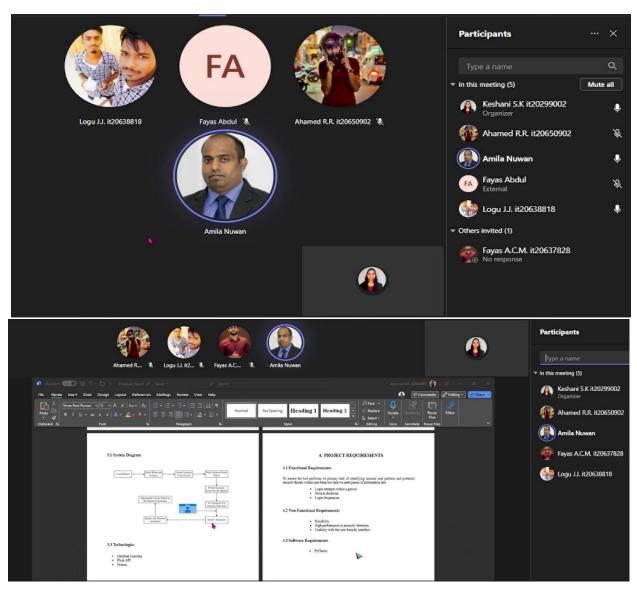




1.3 Team Meeting with Supervisor



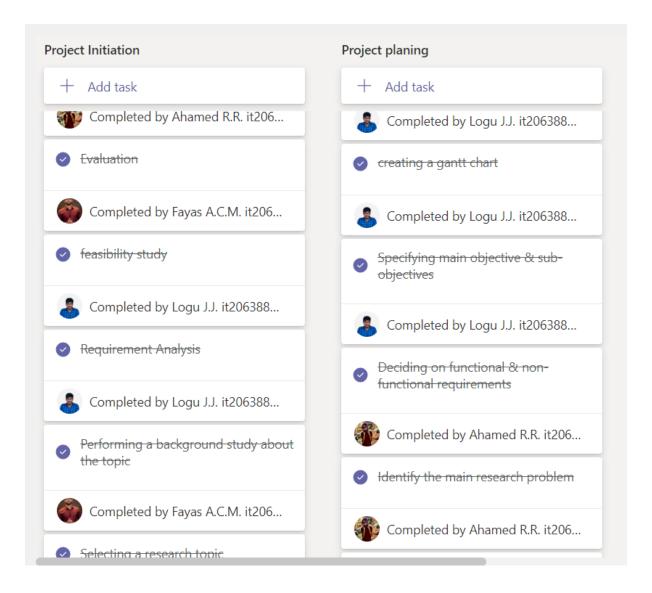




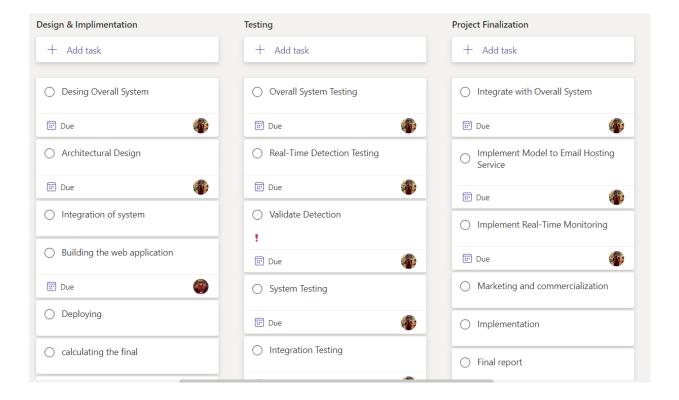
2. MS Teams Planner

2.2 Planner Board

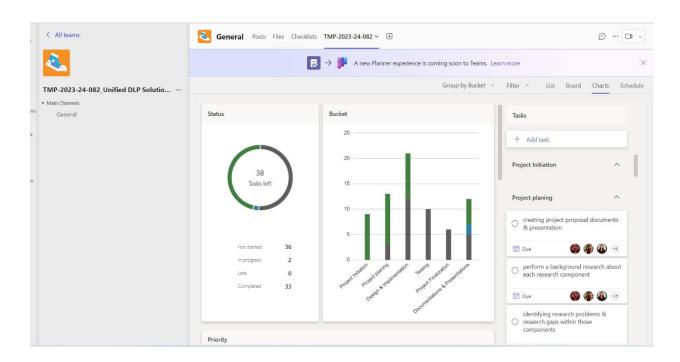
Completed Tasks



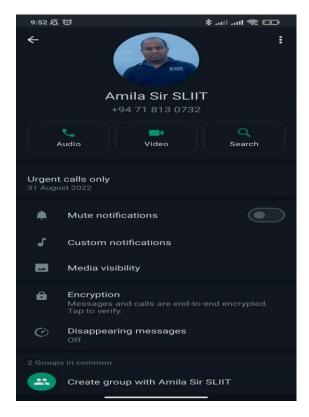
Pending Tasks

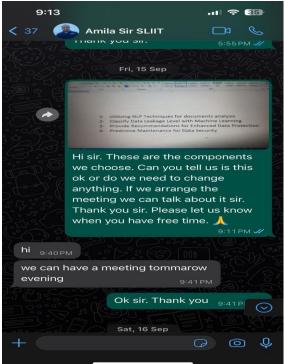


2.2 Team Planner Charts



3. WhatsApp chat with Supervisor

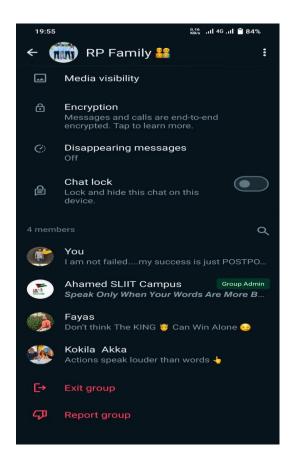




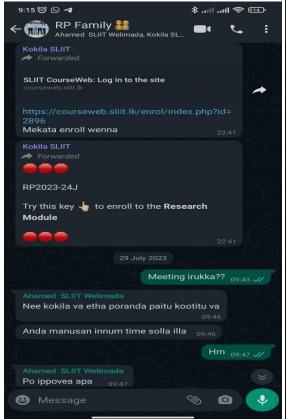


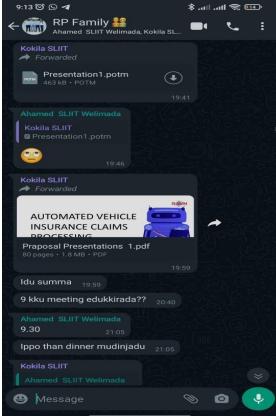


4. WhatsApp Call and Chat with Team









5. Email and planned Teams Events

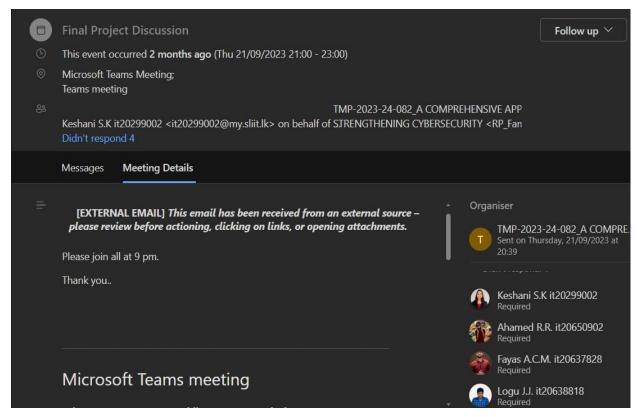


Fig: Planned MS Teams Meeting

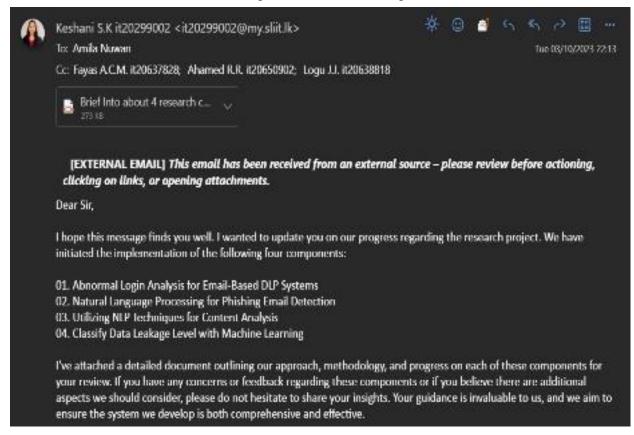


Fig: Email Communication with Supervisor

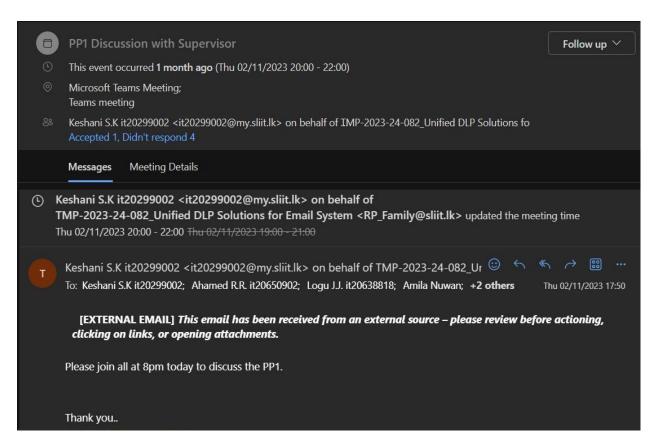
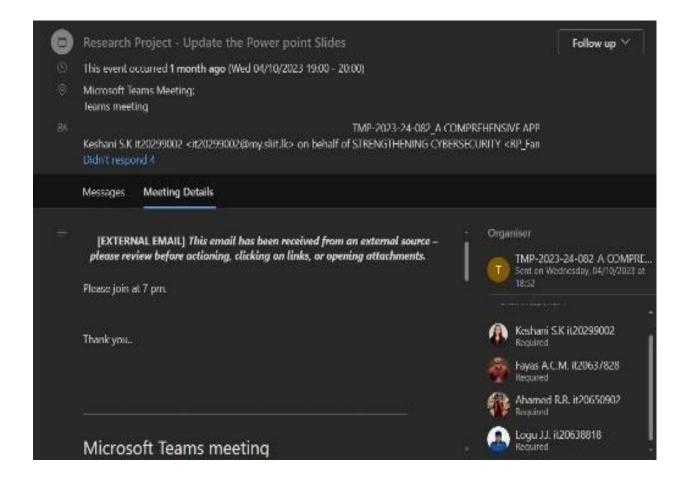
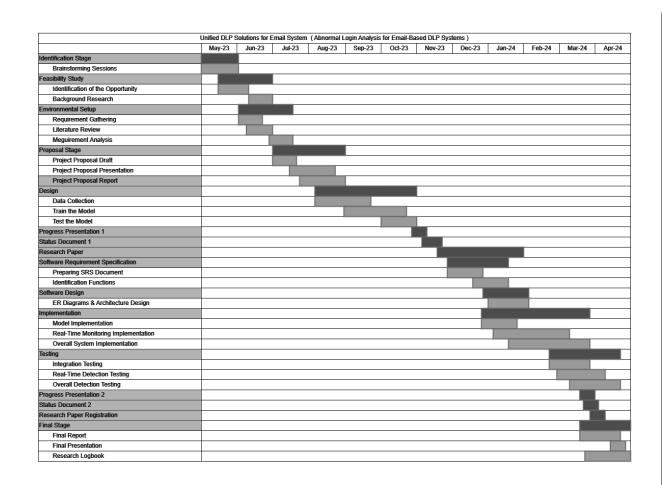


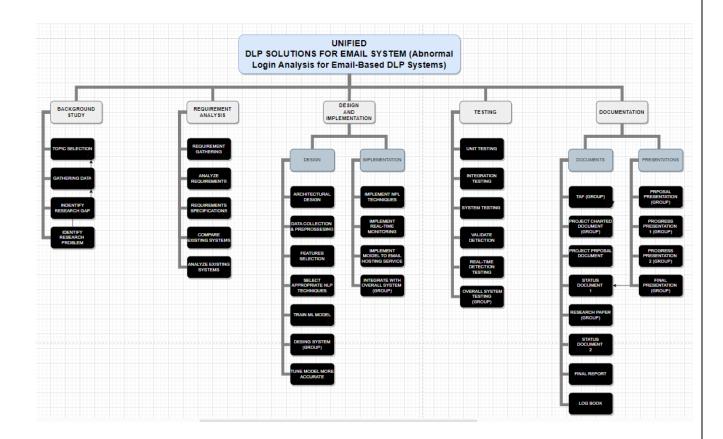
Fig: PP1 Discussion Meeting with Supervisor



6. Gannt Chart



7. Work Breakdown Structure (WBS)



8. Gitlab Commits

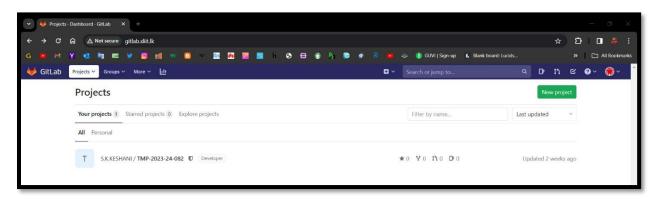


Fig: Project

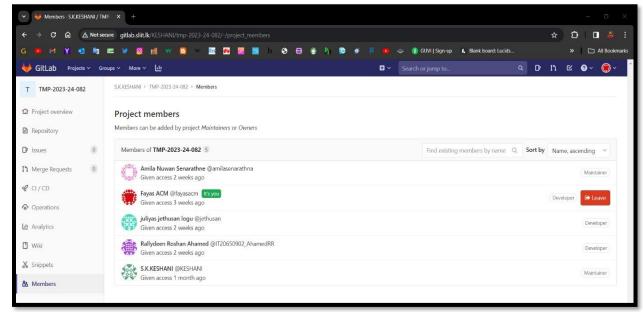


Fig: Team Members and Supervisor

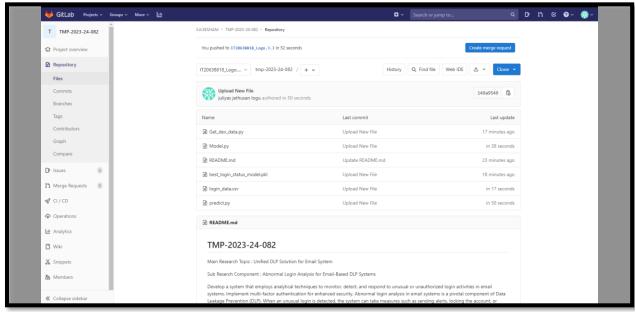


Fig: Code Repository

README.md

TMP-2023-24-082

Main Research Topic: Unified DLP Solution for Email System

Sub Reserch Component: Abnormal Login Analysis for Email-Based DLP Systems

Develop a system that employs analytical techniques to monitor, detect, and respond to unusual or unauthorized login activities in email systems. Implement multi-factor authentication for enhanced security. Abnormal login analysis in email systems is a pivotal component of Data Leakage Prevention (DLP). When an unusual login is detected, the system can take measures such as sending alerts, locking the account, or requiring additional authentication.

Main Objective: The primary goal of Abnormal Login Analysis in DLP systems is to promptly detect and respond to unusual or unauthorized login attempts, thereby safeguarding email data and preventing potential data breaches.

Sub-Objectives: • User Behavior Profiling: Establish baselines of regular user login patterns, including times, locations, and devices, to facilitate the identification of anomalies. • Geographic Analysis: Flag login attempts from unusual or high-risk geographic locations, especially if they don't align with the user's typical patterns. • Sequential Login Analysis: Detect rapid sequences of login attempts, which might indicate brute-force attacks. • Integration with Response Protocols: Seamlessly integrate the abnormal login detection module with automated response systems, ensuring swift actions like account locks or alert notifications.

Fig: ReadMe File