SPL-1 Project Proposal Form, 2023
Institute of Information Technology (IIT)
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Project Description:

"The System Health Monitoring Tool" is designed to monitor and maintain the health and performance metrics of a system. This comprehensive tool gathers regular updates on critical metrics, including CPU usage, memory usage, disk space availability, network statistics, and other relevant factors. If any of these monitored metrics cross predefined thresholds, the tool's built-in alerting mechanism is activated.

Implementing the System Health Monitoring Tool involves creating custom data structures like arrays and structures to store metric values and metadata. Utilize system calls to periodically read metric data from system files and implement custom parsing algorithms. Define threshold constants and develop algorithms to compare metrics against thresholds. Trigger alerts by writing to system logs upon threshold breaches. Implement basic statistical algorithms for calculating averages and trends. For anomaly detection, compare current metric values with historical data, flagging significant deviations as anomalies.

Languages or Tools to be used: C , C++ , Visual Studio Code, Git, GitHub

Supervisor's Name: Dr. Mohammed Shafiul Alam Khan

Signature of the supervisor: _____

Date: 06.08.2023

Before the Midterm Presentation:

I confirm that the progress is satisfactory and I am forwarding it for midterm presentation.

Signature of the supervisor:_____

Date:_____

Midterm Presentation Feedback: