

1. Functional Requirements:

- Threat Identification System: Identify various cybersecurity threats like malware, phishing, DDoS attacks, and insider threats.
- Real-time Threat Monitoring: Continuous monitoring of networks and systems for suspicious activities.
- Risk Assessment Tools: Analyzing vulnerabilities and predicting potential attack surfaces.
- Incident Response Mechanism: Automated alerts and response strategies to mitigate attacks.
- User Authentication and Access Control: Implementing multifactor authentication (MFA) and zero-trust architecture.
- Data Encryption and Secure Communication: Safeguarding sensitive data during transmission and storage.

2. Non-Functional Requirements:

- Scalability: Handle large volumes of data and traffic in realtime
- Performance: Fast response time to detect and respond to threats.
- Reliability: Ensure system uptime and protection against
- User-Friendly Interface: Intuitive dashboards for threat visualization.
- Compliance and Privacy: Adherence to regulations like GDPR, HIPAA, and PCI-DSS.