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 real-time.
- Performance: Fast response time to detect and respond to threats.
- Reliability: Ensure system uptime and protection against cyberattacks.
- **User-Friendly Interface**: Intuitive dashboards for threat visualization.
- **Compliance and Privacy**: Adherence to regulations like GDPR, HIPAA, and PCI-DSS.

3. Technical Requirements:

- **Security Tools and Technologies**: Firewalls, Intrusion Detection Systems (IDS), and antivirus software.
- Artificial Intelligence (AI) and Machine Learning (ML):
 Predictive threat analysis and anomaly detection.
- **Cloud-based Security Solutions**: Secure cloud infrastructure and data storage.
- Blockchain for Data Integrity: Prevent unauthorized access and tampering.
- Encryption Protocols: SSL/TLS, AES encryption.

4. User Requirements:

- **Cybersecurity Professionals**: Real-time threat intelligence and incident management.
- Organizations: Data protection and compliance with legal frameworks.
- End Users: Secure digital transactions and privacy protection.

5. Design and Aesthetic Requirements:

- Colorful and interactive dashboards for threat visualization.
- Infographics to represent threat patterns and attack vectors.
- User-friendly interface for easy navigation and data analysis.

6. Constraints:

- Budget limitations for implementing advanced security solutions.
- Compatibility with existing IT infrastructure.
- Legal and compliance requirements.