Project Design Phase-II

Technology Stack (Architecture & Stack)

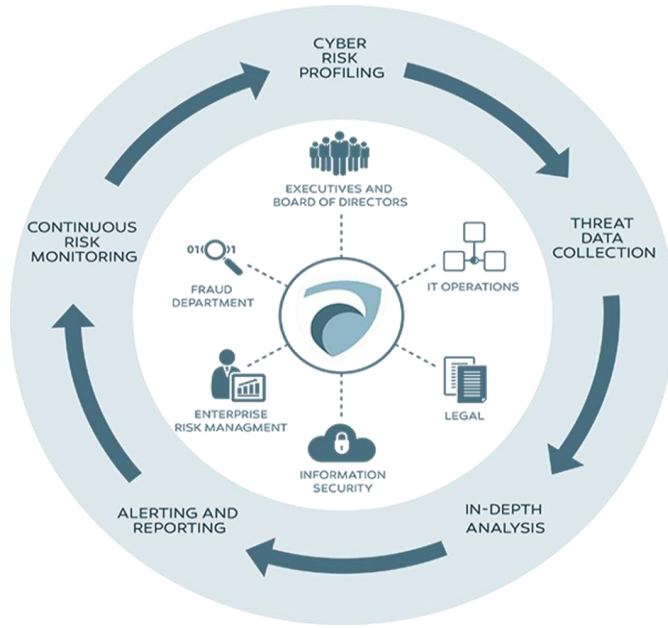| Date	03 October 2022
Team ID	5.1
Project Name	AI-based Threat Intelligence Platform
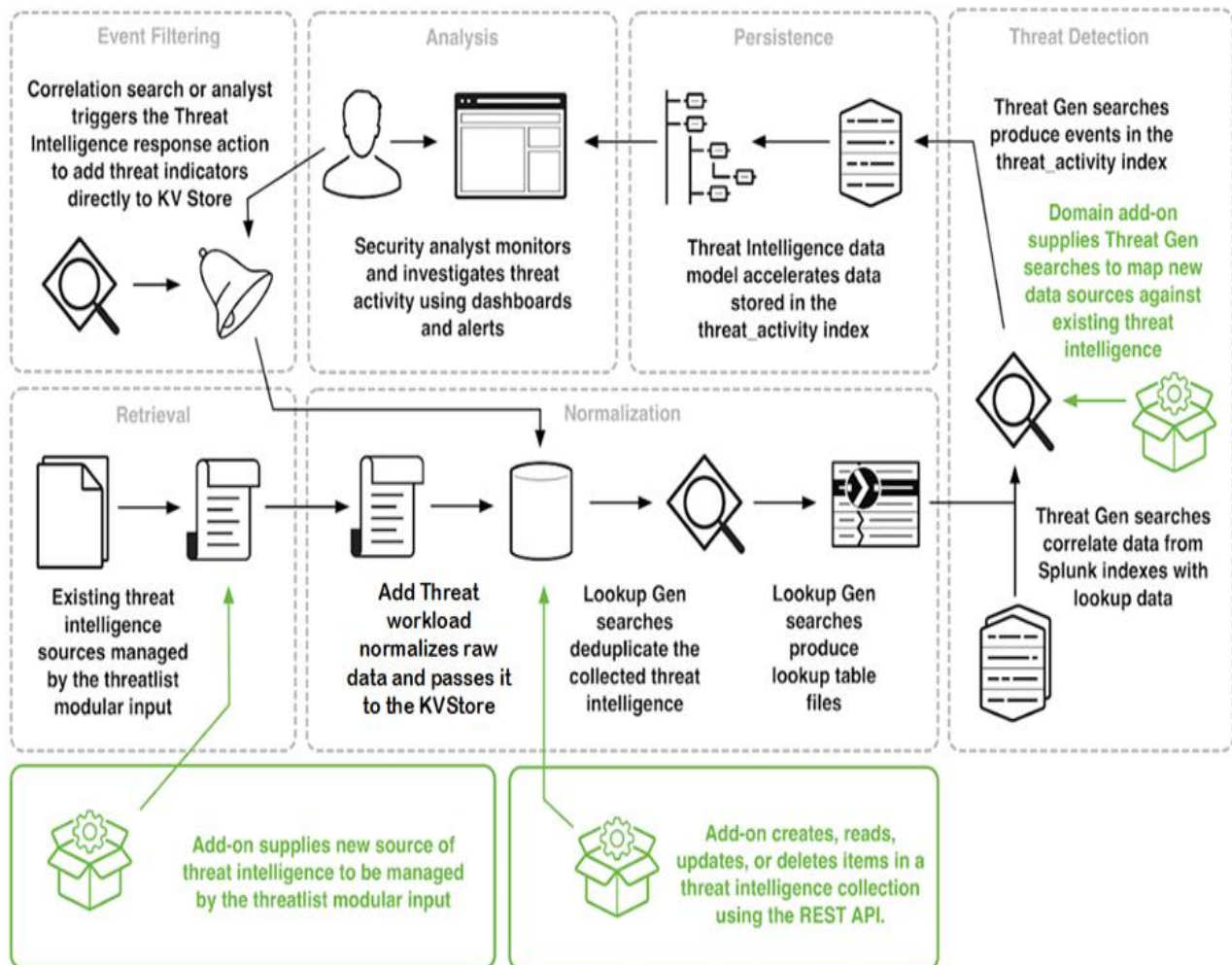
Table 1: Components & Technologies:

S.No	Component	Description	Technology
1	Threat Detection	Real-time identification of potential threats	Machine Learning, AI
2	User Interface	Intuitive and user-friendly platform	Web-based, UI/UX Design
3	Data Integration	Seamless incorporation of diverse data sources|	API Integration
4	Automated Response	Swift initiation of predefined security protocols	Scripting, Automation
5	Predictive Analytics	Forecasting potential future threats	Data Analysis, Machine Learning
6	Reporting and Alerts	Customizable reporting and alerting mechanisms	Data Visualization, Alerts
7	Compliance Management	Adherence to regulatory standards	Compliance Tools, Monitoring
8	Scalability	Adaptable architecture for diverse infrastructures	Cloud Computing, Scalable Technologies
9	Continuous Learning	Feedback loop for continuous improvement	Neural Networks, Data Analysis

Table 2: Application Characteristics:

S.No	Characteristics	Description	Technology
1	Real-Time Monitoring	Continuous monitoring for immediate threat detection	AI Algorithms, Data Streaming
2	Predictive Analysis	Forecasting potential future threats	Machine Learning, Data Analytics
3	Seamless Integration	Smooth integration with diverse security systems	API Integration, Compatibility Solutions
4	User-Friendly Interface	Intuitive and easy-to-navigate platform	UI/UX Design, Web Technologies
5	Automated Response	Swift initiation of predefined security protocols	Scripting, Automation Tools
6	Customizable Reporting	Tailored reporting and alerting mechanisms	Data Visualization Tools, Alert Systems