*Open Source Intelligence Application*

**Project Management Plan**



Department of Information Technology and Management

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**Revision History**

Note: The revision history cycle begins once changes or enhancements are requested after the document has been baselined.

| **Date** | **Version** | **Description** | **Author** |
| --- | --- | --- | --- |
| 11/25/2024 | 2.0 | Final Project Management Plan | Henil Gandhi |
| 11/11/2024 | 1.0 | Developed an Initial Project Management Plan | Henil Gandhi |

Instructions

| **Activity** | **New Capability (1)** | **Feature Enhancement (2)** |
| --- | --- | --- |
| **Field Deployment (A)** | No | No |
| **Cloud/Web Deployment (B)** | Yes | Yes |
| **Mobile Application (C)** | No | No |

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**1. Introduction**

**1.1 Project Overview**

The project focuses on developing an Open-Source Intelligence (OSINT) web application that fetches and analyzes vulnerability data from multiple APIs, such as NVD and CVE. Users will interact with the application through predefined questions, enabling them to generate insights and reports about vulnerabilities based on parameters such as CVSS scores, attack vectors, and severity. The tool is designed to assist cybersecurity teams in prioritizing and addressing critical risks.

**1.2 Scope Statements**

* **In-Scope**:
  + Integration of four APIs to fetch and analyze vulnerability data.
  + User interface to select predefined questions and generate corresponding outputs.
  + Dynamic reporting on vulnerabilities, trends, and severity levels with visualizations (e.g., charts).
* **Out-of-Scope**:
  + Direct implementation of security patches or mitigations.
  + Real-time vulnerability detection beyond API data.

**1.3 Goals and Objectives**

* Provide a seamless and interactive platform to analyze and report vulnerabilities.
* Deliver actionable insights for risk prioritization using data fetched from trusted APIs.
* Support informed decision-making for security teams through visual trends and detailed reports.

**1.4 Stakeholders and Key Personnel**

* **Stakeholders**:
  + Cybersecurity professionals (end-users).
  + Developers and system architects (internal team).
  + API providers (NVD, CVE, etc.).
* **Key Personnel**:
  + **Project Manager**: Oversees timelines, deliverables, and communication.
  + **Web Developer**: Leads the integration and backend development efforts.
  + **Data Analyst**: Ensures data accuracy and meaningful output generation.
  + **UI/UX Designer**: Designs the web interface for optimal usability.
  + **QA Engineer**: Verifies system performance, security, and functionality.

**2. Project Organization**

* **Development Team**: Handles core functionalities like API integration, backend logic, and frontend design.
* **QA Team**: Focuses on testing for accuracy, security, and usability.
* **Project Management Office (PMO)**: Tracks progress and mitigates risks.

**3. Acquisition Process**

* **Technologies**: Use Python/Flask for backend, React for frontend, PostgreSQL for the database, and Chart.js for data visualization.
* **Third-Party APIs**: Obtain necessary permissions for accessing NVD, CVE, and other APIs.
* **Hosting Platform**: Deploy the application on cloud infrastructure such as AWS or Azure for scalability and reliability.