*Development of Custom OS Intelligent Application*

**Project Management Plan**



Department of Information Technology and Management

*December 2023*

**Version** *1.3*

**Revision History**

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

| **Date** | **Version** | **Description** | **Author** |
| --- | --- | --- | --- |
| 12/01/2023 | 1.3 | Finalized copy |  |
| 11/29/2023 | 1.2 | Added Project Management Plan | Process Management |
| 11/28/2023 | 1.0 | Initial Version | Kainat |

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## Overview

This document functions as the guiding framework for the project's undertaking. In the development and testing phases of the OSINT application, seamless communication, collaboration, and workflow management are imperative. The subsequent sections illustrate a unified collection of guidelines, tools, and methodologies meticulously devised to ensure the efficient and successful completion of the project.

## Scope

This project centers around developing an Open Source Intelligence tool designed to extract data from specified sources, leveraging four APIs for this purpose. Following the completion of data collection, the project will transition into the phases of analysis and processing. Ultimately, the project aims to present the findings derived from the data analysis. All project documentation, as well as any pertinent materials, will be readily available on the associated GitHub [repository](https://github.com/ITMS-X48/Final_Project) for reference and transparency.

## Goals and Objectives

The key objectives of this project encompass the development of essential documents, including a project plan, risk management sheet, earned value sheet, project management plan, an application featuring a user-friendly GUI, and a comprehensive data analysis. Each of these objectives entails specific sub-goals embedded within the respective documents. At its core, the overarching goal is to successfully create a fully functional OSINT application with an intuitive GUI. This application is designed to seamlessly retrieve data from four distinct sources and undergo subsequent processing. The project team has consistently prioritized both the overarching goal and individual objectives, ensuring a cohesive and effective approach throughout the project lifecycle.

# Project Organization

The roles and responsibilities of the project have been distributed within the team. The team comprises individuals with skill sets, each assigned to specific tasks to contribute to the project’s success. Members of the team include: Bilal Merchant, Daniela Munoz, Joseph Valente, Kainat Khan, Krish Dhugnana, Saba Slote, and Sophia Robles. Clear lines of communication have been established through SMS messaging and meeting. The organization structure is designed to keep everyone aligned with the project goals and promote innovation, efficiency, and accountability.

# Monitoring and Control Mechanisms

To ensure the project stays on course and meets its objectives, robust monitoring and control mechanisms have been implemented. Predefined milestones alongside performance indicators serve as a benchmark for success. Deviations from the project plan are promptly identified and addressed through a change management process. Continuous communication channels and project management tools are employed to facilitate real time tracking of tasks and deliverables. The combination of these methods create a proactive monitoring and control responsive system and adapts to changes and keeps the project on track.

# Systems Security Plans and Requirements

System security plans and requirements will be developed as part of the project’s planning phase. Efforts will be made to ensure proper security measures are in place throughout developing the application. Developers are up to date with standards on coding including API security and management. Periodic assessments will be conducted to mitigate vulnerabilities. A feedback process will be in place for reporting security issues to enhance security awareness after auditing.

# Work Breakdown Structure (WBS) and Schedule

The following information will be broken down into further detail in the Project Plan.

# Project Success Criteria

Defining a clear success criteria is crucial for measuring the effectiveness and achievement of the project objectives. The success criteria for this project are outlined as follows:

* Delivery of OSINT Application
* User Friendly GUI Implementation
  + The integration of a GUI for seamless user interaction
* Data Retrieval from Data Sources
  + Data retrieval functionalities from relevant data sources
* Data Process and Analysis
  + Effective processing and analysis of retrieved data to generate meaningful conclusions
* Comprehensive Documentation
  + Creation of necessary project documents for organizational purposes and reporting

# Communication Management Plan

Communication is held on text messages. We created a group chat where everyone communicates. Other channels of communication were discord, and virtually meetings on a daily basis through google meet to discuss project timeline, progress, and next steps of action.

# Risk Management Plan

Risks will be managed in accordance with the risk management log, which, upon submission, will be found in the Github Repository.

# Training Plan

The developers will need training because they need to develop a fully functional open-source intelligent application with a user-friendly GUI. They will do research on how to apply four different APIs.

# Quality Assurance Plan

The assessment of quality assurance is based on data scraping of precise text predictions and the use of a Natural Language AI model to determine whether or not the predictions are malicious. The quality of the data is shown by the length of the list and the stronger negative implications of the texts selected.

# Project Measurement Plan

The Project Measurement Plan has been developed to assess, evaluate and quantify the various aspects of the project to gauge its progress and success. The plan alongside the relevant documents showcase key performance indicators (KPI’s) and metrics that align with project objectives.

## Description

This includes:

* Schedule Performance -
  + Measurement: Percentage of tasks completed on schedule
  + Metric: Planned vs Actual Project Timeline
* Cost Performance
  + Measurement: Budget Variance
  + Metric: Planned vs Actual project expenditures
* Risk Management
  + Measurement: Number of risks identified
  + Metric: Likelihood of assessments + Risk Severity
* Task Completion rates
  + Measurement: Percentage of completed tasks
  + Metric: Planned vs Actual Task Completion Rates
* Data Retrieved and Analyzed
  + Measurement: Data Collected from sources
  + Metric: Data points analyzed

All of the quantifiable data mentioned above has been monitored, measured, and documented in the EVS, Risk Management Plan, and the data analysis

# Reference Materials

*The following reference material has been implemented with this document located in the same folder:*

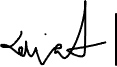
* Risk Management Plan
* Earned Value Sheet
* Project Plan
* GitHub repository
* Data Analysis report

# Project Plan Approval

The signatures below indicate that the undersigned:

* Have reviewed the Project Plan.
* Have formally voiced applicable concerns to the PM.
* Project Plan accurately represents their expectations and conditions required for the project.
* Committed to providing the required resources.
* Unaware of undocumented conditions that prevent the success of this project.

REVIEW DATE: *12/01/2023*



Signed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



Project Manager Date