**OSINT Application Development**

# Project Management Plan


**Department of Information Technology and Management**

**November 2023**

**Version 1.0**

## Revision History

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

| Date | Version | Description | Author |
|---|---|---|---|
| 11/16/23 | 1.0 | First version of Project Management Plan | Joshua Davenport |

## Artifact Rationale

The Project Management Plan (PMP), according to the Guide to the Project Management Body of Knowledge (PMBOK®), is a formal, approved document used to guide both project execution and project control. The primary uses of the PMP are to document planning assumptions and decisions, facilitate communication among stakeholders, and document approved scope, cost, and schedule baselines. By showing the major products, milestones, activities and resources required on the project, it is also a statement of how and when a project's objectives are to be achieved.

The project manager creates the PMP following input from the project team and key stakeholders. The plan should be agreed on and approved by at least the project team and its key stakeholders.

The PMP is mandatory for all projects. While it is a project-level document, it should be updated as necessary, including for each increment.

# Table of Contents

# 1. Introduction

This PMP describes the project management processes that DataHarbor Intelligence will follow during execution of the OSINT Application Development project. The project's processes will align with plans and processes of the Project Management Accountability System (PMAS) Guide New processes will be defined for any management areas not covered by the PMAS Guide. This PMP will govern the management practices across the life of the project. As those practices evolve, this document will be updated to reflect the changes.

## 1.1. Project Overview

In this project, we will be developing an application that is used for Open Source Intelligence (OSINT) purposes. This application will have a graphical user interface (GUI) that users can interact with. It will be capable of analyzing the collected data as well to display to the user. This project has one final deliverable, an OSINT Application with a fully functional GUI and data analysis capabilities.

## 1.2. Scope Statements

The scope of this project is as follows:

- Application must retrieve data from four different data sources or APIs
- Application must have a GUI
- Application must be useful for OSINT operations
- Application must be written in a high-level language
- Application will be developed through GitHub
- Application will integrate a separate terminal based program
- Application will integrate a separate application that analyzes the data
- Application will be delivered by December 1st, 2023 at 2:28pm

## 1.3. Goals and Objectives

- Create an open source intelligence application
- Have a user-friendly GUI
- Provide useful data analysis within the application
- Have multiple data sources to add application versatility
- Deliver an application that has use to those hoping to do OSINT research

## 1.4. Stakeholders and Key Personnel

Stakeholders of this project include:

- Joshua Davenport, Bisma Khan, Arturo Arreola, Kevin Aguilar, Muhammad Arbi, Pedro Espinoza, Philip Le (the developers)

- Professor Dawson
- The users of the application

# 2. Project Organization

## 2.1. Team Structure

- **Project Manager:** Joshua Davenport
- **Development Team:**
  - Joshua Davenport
  - Bisma Khan
  - Arturo Arreola
  - Kevin Aguilar
  - Muhammad Arbi
  - Pedro Espinoza
  - Philip Le
- **Documentation Team:**
  - Joshua Davenport – Project Management Plan
  - Muhammad Arbi – Project Plan
  - Kevin Aguilar – Risk Management Plan
  - Bisma Khan – Earned Value Sheet

## 2.2. Reporting Lines

Team members report to one another with their progress. Once an accomplishment or milestone has been reached by a team member, they will contact both Joshua Davenport and Muhammad Arbi to report this. This will help keep track of the project's development.

## 2.3. Collaboration Tools

- **Project Management:** Project Libre
- **Version Control:** GitHub
- **Communication** Discord (primary), Email (secondary), Zoom (tertiary)

# 3. Acquisition Process

No Acquisition

# 4. Monitoring and Control Mechanisms

## 4.1. Standard Processes

- **Risk Management**
  - Regularly assessing project risks and taking steps to mitigate risks.
- **Goal Tracking**
  - Regularly tracking goals and objectives to ensure the project achieves all of them.

## 4.2. Communications

- **Team Reporting**
  - Weekly meetings to monitor progress of project and bring up issues to ensure project stays on schedule

# 5. Systems Security Plans and Requirements

## 5.1. Security Planning

- **Security Objectives**
  - Confidentiality – Data collected by the application should be confidential, within reason, as all information gathered by the application is available on the internet regardless.
  - Integrity – Data collected by the application should have integrity, within reason, as information on the internet can be falsified.
  - Availability – Data collected by the application should be available after the data collection is over, should the user decide they want it.
  - Application should be developed securely and have a minimum amount of issues.

## 5.2. Security Planning Processes

- **Security Assessments**
  - Application will be regularly assessed with a static code analyzer, ensuring there are no severe issues with the code.
  - Once application has the issue patched, it will be scanned again to ensure no new issues arose.

# 6. Work Breakdown Structure (WBS) and Schedule

See project's Project Plan using ProjectLibre in same zip folder.

# 7. Project Success Criteria

This project will be considered successful given the following criteria are achieved:

- The application meets the project objectives and goals
- We finish the project by the deadline
- The project was developed securely
- The project receives a passing grade
- This application is used by actual users hoping to do OSINT reconnaissance
- We learned something while developing the application

# 8. Communication Management Plan

See the project's communication plan in sections 2.2, 2.3, and 4.2.

# 9. Risk Management Plan

See project's risk management plan and risk management log in same zip folder.

# 10. Software Configuration Management (SCM) Plan

## 10.1. Purpose

The purpose of the SCM Plan is to ensure consistency, traceability and control of the Software configuration throughout the development of the application.

## 10.2. Configuration Control

- **Version Control**
  - Software Configuration will only change across different versions of the software.
  - The software for version control is Git, and our code/configurations will be hosted on GitHub.

# 11. Training Plan

## 11.1. Training Beneficiaries

The application users would benefit from training most, as they would be the main ones using the application and should know how to use it.

## 11.2. Training

Training would not need to be done in person, and can be handled by detailed, documentation created by the developers. This would allow anyone to "train" themselves and understand how to use the application effectively

# 12. Quality Assurance Plan

## 12.1. Purpose

To ensure that application users can expect a certain level of quality, and that our goals are met and align with user expectations.

## 12.2. Quality Standards

- User can navigate the GUI with ease
- User knows how to use the application
- User understands the application output
- Application is stable and doesn't crash frequently
- Application does what it is expected to do
- Application analyzes data and displays it in a pretty format

# 13. Project Measurement Plan

## 13.1. Description

In order to ensure our project is making progress, there are certain measurements that must be taken. However, first off the data must be collected, and the most relevant methods of data collection for this project is enumeration of the project details (ex. counting the number of data sources), keeping track of time, keeping track of commits to the GitHub (effort), and simply how well users rate the use of the application (on a scale of 5). This data is stored in a spreadsheet, allowing for easy analysis, maintenance, and reporting of measurement data.

## 13.2. Performance Measurements

Table 5: OSINT Application Development Performance Measurements

| No. | Measurement Name | Measurement Objective | Metric |
|---|---|---|---|
| 1. | Project is on Schedule | To ensure that the project progresses at a reasonable pace meets the deadline. | Time |
| 2. | Changes to requirements | If requirements are changed, extra time and effort will be required to implement the new requirements. | Time, effort |
| 3. | GUI Completeness | As the application continues to develop, the GUI will appear more and more complete and feature rich. | How complete the GUI feels. |
| 4. | Application Versatility | The application should have a number of different features. | Number of data sources and APIs the application implements. |
| 5. | Progression does not stop | The development should not halt for a significant amount of time. | Effort |
| 6. | Application stability | The application should be stable and not crash. | Time application can go without crashing, Effort put into fixing stability issues |
| 7. | Application Security | The application should be secure and not have many issues. | Enumeration of issues found by static code analyzer |

# 14. Reference Materials

Referenced Documents:

- Project Plan – Located in Zip Folder
- Risk Management Plan – Located in Zip Folder
- Risk Management Log – Located in Zip Folder
- Earned Value Sheet – Located in Zip Folder

# Approval Signatures

## 15. Project Plan Approval

The signatures below indicate that the undersigned:

- Have reviewed the Project Plan.
- Have formally voiced applicable concerns to the PM.
- Concur that the Project Plan accurately represents their expectations and conditions required for the project.
- Are committed to providing the required resources.
- Are unaware of undocumented conditions that prevent the success of this project.

REVIEW DATE: 11/22/23

SCRIBE: N/A

Signed: Joshua D. 11/22/23

Project Manager Date

Signed: N/A

Business Sponsor Date