

Open Source Intelligence Application

Project Management Plan



ILLINOIS INSTITUTE
OF TECHNOLOGY

Department of Information Technology and Management

April 2024

Version 2.0

Revision History

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

Date	Version	Description	Author
04/10/2024	2.0	Final project management plan	Sree Charan Re...
03/28/2024	1.0	Drafted the initial project management plan	Sree Charan Re...

Artifact Rationale

Purpose: The OSINT application is designed to provide a web-based interface for users to gather and visualize information from various social media platforms.

Scope: The application covers the following features:

- Instagram: Retrieves user details, recent posts, and post details.
- Twitter: Retrieves user details.
- Reddit: Retrieves user details, recent posts, and comments.
- YouTube: Retrieves channel details, video details, and recent videos.

Usage: The application can be run locally by cloning the repository, installing dependencies, and running the Flask application.

Maintenance: The repository is maintained by the owner, sree-charan, and contributions are welcome from others.

Relationships: The OSINT application is related to other project artifacts, including:

- Instagram API documentation
- Twitter API documentation
- Reddit API documentation
- YouTube API documentation
- Flask documentation

Benefits: The OSINT application provides a user-friendly interface for gathering and visualizing information from social media platforms, making it a useful tool for researchers, investigators, and analysts.

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

This project management plan outlines the scope, objectives, and approach for the development of an Open Source Intelligence (OSINT) web application. The plan will serve as a guide for the project team to ensure successful delivery of the project.

1.1. Project Overview

The OSINT web application project aims to design, develop, and deploy a web-based platform for OSINT gathering. The application will allow users to input usernames and retrieve detailed information from social media platforms like Instagram, Twitter, Reddit, and YouTube.

1.2. Scope Statements

The scope of this project includes:

- Developing a web-based platform for OSINT gathering
- Integrating data collection from Instagram, Twitter, Reddit, and YouTube
- Designing a user-friendly interface for data retrieval and visualization
- Ensuring data security and privacy

1.3. Goals and Objectives

The goals and objectives of this project are:

- Develop a web-based platform for OSINT gathering
- Integrate data collection from Instagram, Twitter, Reddit, and YouTube
- Design a user-friendly interface for data retrieval and visualization
- Ensure data security and privacy
- Meet the requirements of the project team

1.4. Stakeholders and Key Personnel

The stakeholders and key personnel for this project are:

- Project Manager: Sree Charan Reddy
- Software Developers: Yashwanth, Abhijeet, Nidhi
- Quality Assurance Engineer: Shahana, Shalni
- Technical Writer: Dinesh, Kushal
- End-users: OSINT analysts and researchers

2. Project Organization

The project organization for this project is:

- Project Manager: Sree Charan Reddy
- Development Team: Yashwanth, Abhijeet, Nidhi

- Quality Assurance Team: Shahana, Shalni
- Documentation Team: Dinesh, Kushal

3. Acquisition Process

The acquisition process for this project is:

- *The project team will utilize open-source resources and tools*
- *The project manager will be responsible for acquiring all necessary resources and materials*

4. Monitoring and Control Mechanisms

The monitoring and control mechanisms for this project are:

- Regular project meetings and status updates
- Use of project management tools for tracking progress and issues
- Clear and timely communication with team members
- Risk management and issue resolution processes

5. Systems Security Plans and Requirements

The systems security plans and requirements for this project are:

- The project will follow best practices for security and privacy
- The project manager will be responsible for ensuring the security and privacy of the OSINT web application

6. Work Breakdown Structure (WBS) and Schedule

The WBS and schedule for this project are:

- *Task 1: Requirements gathering and analysis (Week 1)*
- *Task 2: Design and prototyping (Week 2)*
- *Task 3: Development and testing (Week 3-4)*
- *Task 4: Deployment and maintenance (Week 5)*

7. Project Success Criteria

The success criteria for this project are:

- *The OSINT web application is developed and deployed*
- *The OSINT web application meets the requirements of the project team*
- *The OSINT web application is secure and privacy-preserving*

- *The OSINT web application is user-friendly and easy to use*

8. Communication Management Plan

The communication management plan for this project is:

- *Regular project meetings and status updates will be held with the project team*
- *A project management tool will be used to track progress and issues*
- *Clear and timely communication will be maintained with team members*
- *A communication plan will be developed and distributed to all team members*

9. Risk Management Plan

The risk management plan for this project is:

- *A risk management process will be established and followed*
- *Risks will be identified, assessed, and prioritized*
- *Risk mitigation strategies will be developed and implemented*
- *Risks will be monitored and reviewed regularly*

10. Software Configuration Management (SCM) Plan

The SCM plan for this project is:

- *A SCM process will be established and followed*
- *The OSINT web application will be developed and maintained using a version control system*
- *Changes to the OSINT web application will be tracked and managed*
- *The OSINT web application will be built and deployed using a continuous integration and continuous deployment (CI/CD) pipeline*

11. Training Plan

The training plan for this project is:

- *A training plan will be developed and implemented*
- *Training will be provided to end-users and administrators*
- *Training will cover the use and maintenance of the OSINT web application*
- *Training will be delivered through a combination of online and in-person sessions.*

12. Quality Assurance Plan

The quality assurance plan for this project is:

- *A quality assurance process will be established and followed*
- *The OSINT web application will be developed and tested using a quality assurance framework*
- *Quality assurance activities will include unit testing, integration testing, system testing, and acceptance testing*
- *Quality assurance activities will be conducted regularly throughout the project*

13. Project Measurement Plan

The project measurement plan for this project is:

- *A project measurement plan will be developed and implemented*
- *Progress will be tracked and measured using a project management tool*
- *Metrics will be established and tracked to measure project success*
- *Metrics will include schedule, quality, and team performance*

13.1. Description

The project measurement plan will be used to track progress and measure success throughout the project. The plan will include metrics for schedule, quality, and team performance. The metrics will be established and tracked regularly to ensure the project is on track and to identify any areas that require improvement.

13.2. Performance Measurements

The project measurements for this project are:

- *Schedule:*
 - o *Task completion rate*
 - o *Milestone achievement*
 - o *Overall project timeline*
- *Quality:*
 - o *Defect density*
 - o *Test coverage*
 - o *User acceptance testing (UAT) results*
- *Team Performance:*
 - o *Team velocity*
 - o *Individual task completion rate*
 - o *Team satisfaction and engagement*

These measurements will be tracked and reported regularly to the project team and stakeholders to ensure everyone is informed and aligned with the project's progress and performance.

OSINT Performance Measurements

No.	Measurement Name	Measurement Objective	Metric
1.	Task Completion Rate	To measure the progress of task completion	85% of tasks completed on time
2.	Milestone Achievement	To track the achievement of project milestones	90% of milestones achieved on time
3.	Overall Project Timeline	To monitor the project timeline	75% project completion
4.	Defect Density	To measure the quality of the product	5% defects per unit of code
5.	Test Coverage	To measure the extent of testing	95% code coverage
6.	UAT Results	To measure user acceptance	92% user acceptance tests passed
7.	Individual Task Completion Rate	To measure individual team member productivity	88% tasks completed on time by each team member
8.	Team Satisfaction and Engagement	To measure team satisfaction and engagement	90% team satisfaction and engagement

14. Reference Materials

The reference materials for this project are:

- *Project management methodology (PMM)*
- *Project management framework (PMF)*
- *Project management body of knowledge (PMBOK)*
- *Best practices for security and privacy*
- *Version control system documentation*