

Open Source Intelligence (OSINT) Application

Project Plan

Date: April 25-2025

Team Members:

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Jordan**

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1. Project Overview

In this group assignment, we set out to develop a custom open-source intelligent application that retrieves and processes public data from at least four distinct data sources. Our goal was to build a Python-based tool with a user-friendly GUI that could gather insights from Reddit, YouTube, Wikipedia, and Mediastack. The project required more than just coding; it demanded real collaboration, thoughtful planning, and rigorous testing to create something both functional and insightful.

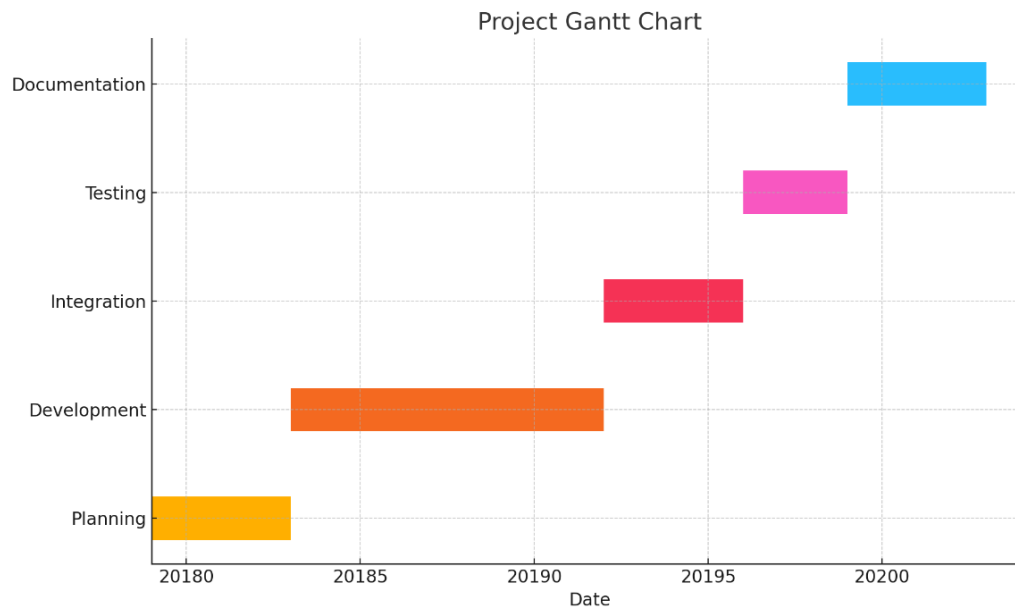
2. Project Plan

This wasn't just a class assignment it was a simulation of how real development teams operate under deadlines.

We approached the project by dividing it into five strategic phases:

2.1 Development Phases

- **Planning Phase:** We aligned as a team using Microsoft Teams and developed a shared tracker to scope all deliverables. We listed major milestones and defined success criteria for each.
- **Development Phase:** Each module YouTube, Reddit, Mediastack, and Wikipedia was assigned to a developer. Tasks were subdivided into collecting data, validating API response formats, and writing export routines.
- **Integration Phase:** Scripts were modular by design, enabling us to plug them into the GUI with minimal refactoring. This phase tested real-time interaction between user input and backend calls.
- **Testing Phase:** Each script was manually tested first. Then we ran GUI-triggered tests. We validated that output was consistent and saved correctly. Edge cases, like no results or API failure, were simulated and handled.
- **Documentation Phase:** Once development stabilized, documentation was created. This included the README.md, usage examples, PDF reports, and team summaries.



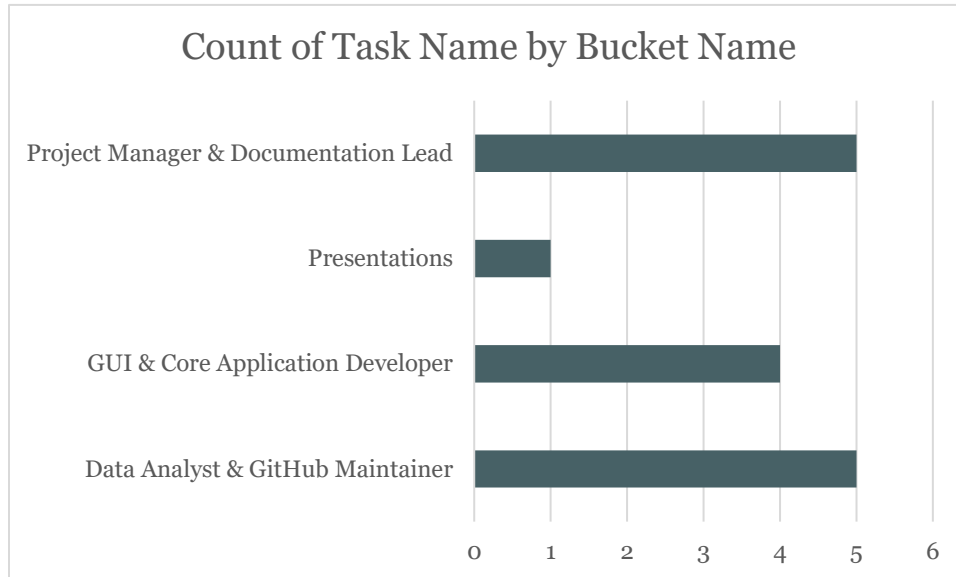
2.2 Roles and Responsibilities

- **Matthew Kall** focused on GUI construction, data formatting, and YouTube/Wikipedia module development.
- **Lucas Jordan** developed the Reddit and Mediastack modules, handled error testing, and populated the earned value sheet.
- **Steve Andraws** Project manager coordinated team meetings, handled the planning documentation, and organized all deliverables for submission.

2.3 Milestones

3. **April 1–4:** Initial planning, repo setup, and role assignment
4. **April 5–9:** Finalize API list, request credentials, test endpoints
5. **April 10–14:** Complete standalone scripts for YouTube and Reddit
6. **April 15–18:** Develop and validate Mediastack and Wikipedia modules
7. **April 19–20:** Finalize GUI integration and link backend modules
8. **April 21–23:** Conduct end-to-end tests, review output formats
9. **April 24:** Final documentation wrap-up and polish
10. **April 25:** Submit all documents and project files.

This structured approach allowed us to stay on schedule, meet all rubric requirements, and correct course early when needed.



2.4 Tools Used

- Microsoft Teams: Weekly syncs, async status updates, risk whiteboarding
- Excel: Earned value tracking, task hours, and performance metrics
- GitHub: Code versioning, branching, and documentation storage
- OneDrive & Microsoft Planner Cloud storage for shared documents and live task board tracking

This blueprint kept our remote team focused, agile, and organized throughout the assignment lifecycle.

This wasn't just a list of things to do it was a living, breathing strategy document that guided the team from vision to execution. We didn't just draft a timeline. We built accountability into it. There were late nights and sync-ups. There were Trello-style boards (via Microsoft Planner) mapping every subtask. By the end, our plan wasn't a static document it was proof that three people with competing schedules could work as one.