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| Skyscrapers shown from view looking up | | | | |
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| OPENSOURCE Intelligence (OSINT) App – Project Plan  Project Lead(s): Steve Andraws, Matthew Kall, Lucas Jordan  Project Sponsor(s):  Dr. Maurice Dawson Jr. | | |
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1. **Project Overview:**

We set out to build a lightweight, opensource app that could pull public data from YouTube, Reddit, Wikipedia, and Media stack then show it all through a simple, usable Python GUI. It was not just a technical challenge. It was about making sense of scattered public information in one place and learning how to work like a dev team along the way.

1. **Problem/Value Statement:**

People struggle to make sense of huge volumes of online content. Our tool tackles that by pulling real time info from multiple sources, helping users get a fast and organized view of what is going on in the world without bouncing between tabs.

**Goals, Scope & Measures of Success**

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| Goal | How We'll Measure It |
| Modular API scripts working independently | Unit tests for each module and independent successful runs |
| Full integration with Tkinter GUI | GUI returns expected results and handles user input smoothly |
| Error handling and graceful failure implementation | App doesn't crash; users get meaningful error messages |
| Full documentation and enduser guide | README.md, PDF instructions, usage examples, submitted on time |
| Collaborative delivery using online tools | Regular checkins, updates on GitHub, task tracking in Planner |

1. **Stakeholders & Partnerships**
2. Core Team: responsible for development, planning, and documentation.
3. PM: oversees deliverables, grading, and project criteria.
4. Users: future developers, students, researchers using the tool
5. **Deliverables & Milestones**

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| Target Date | Deliverable / Milestone |
| April 4 | Repo setup, API list finalized, roles assigned |
| April 9 | API keys obtained, endpoints validated |
| April 14 | YouTube and Reddit modules function independently |
| April 18 | Mediastack and Wikipedia modules finished |
| April 20 | GUI integration completed |
| April 23 | Full testing of app and error handling |
| April 24 | Documentation wrapped, reports finalized |
| April 25 | Final submission and backup demo completed |

**Assumptions, Constraints & Dependencies**

* We worked entirely remotely, so staying connected was essential.
* We assumed our APIs would not change dramatically during the project window, but we planned in case they did.
* We relied on stable internet, working APIs, and GitHub not going down at the worst possible time (thankfully, it did not).

**Risk Mitigation**

* API quota or key expiration
* Mitigation: Rotated keys regularly and cached data for fallback
* GUI crashes from bad input
* Mitigation: Exception handling and validation checks inside GUI input logic
* Missed deadlines or illness.
* Mitigation: Task reassignment via Microsoft Planner
* Tech issues during demo

1. **Project Team & Roles**

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| Name | Role | Main Contributions |
| Steve Andraws | Project Manager | Planning, documentation, team coordination, risk management |
| Matthew Kall | GUI/Backend Developer | Tkinter UI, YouTube & Wikipedia APIs, integration logic |
| Lucas Jordan | API & Testing Lead | Reddit & Mediastack APIs, exception handling, earned value sheet |

**Communication Plan:**

We didn’t want to guess who was doing what, so we stuck to a few solid tools that kept us organized and coordinated. MS planner and Teams.  
 1. Teams were our goal for weekly syncs and daily updates, it helped us catch issues early.  
 2. Planner gave us a visual of what was done, what was completed, and who owned what.  
 3. GitHub managed our code versions and README updates.  
 4. OneDrive was our cloud storage for everything from risk logs to drafts.

This management plan wasn’t just paperwork, it’s the reason we finished on time, with all deliverables intact and everyone still on speaking terms.

Thank you!

Team Members: Steve Andraws, Matthew Kall, Lucas Jordan