Alliant #1: Act Like a Fraudster

Project Plan

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION	PCT OF TASK COMPLETE
1	**Initial Planning & Requirements**					
1.1	Define project scope	Everyone	9/9/24	12/12/24		100%
1.2	Project Charter	Everyone	9/16/24	12/8/24		100%
1.3	Requirements Document	Everyone	10/2/24	12/8/24		100%
1.4	Project Plan	Everyone	10/2/24	12/8/24		99%
1.5	Set up project management tools & environment	Everyone	10/17/24	11/4/24		100%
2	**Research, Design & Setup**					
2.1	Research Title Fraud	Everyone	9/16/24	10/14/24		100%
2.2	Research Title Transfer Process	Everyone	9/16/24	10/21/24		100%
2.3	Research Current Industry Tools	Everyone	9/30/24	10/14/24		100%
2.4	Research Project Planning Platforms	Everyone	9/30/24	10/21/24		100%
2.5	Website Information Gathering	Everyone	10/14/24	10/28/24		100%
2.6	Research Listing Websites	Everyone	10/21/24	10/28/24		100%
2.7	Design system architecture & wireframes	Everyone	11/14/24	11/18/24		100%
2.8	Research & select technologies (scraping, AI, web)	Everyone	11/4/24	11/25/24		100%
3	**Prototype Development & Web Scraping**					
3.1	Develop website prototype and backend	Isaac, Zach	1/13/25	2/7/25		100%
3.2	Implement web scraping for property data	Shuchi, Walker,	1/13/25	2/14/25		100%
3.3	Scrape deed and mortgage information	Shuchi	2/15/25	2/21/25		100%
4	**Integration & Backend Development**					
4.1	Integrate web scraping data into backend system	Isaac, Zach	2/22/25	3/7/25		100%
4.2	Implement AI email generation & document creation	Daniel, Isaac	3/20/25	4/11/25		100%
4.3	Implement DeepLiveCam	Diego	3/20/25	4/11/25		100%
5	**Website Design, Map, & Final Testing**					
5.1	Website design & map integration	Isaac	3/10/25	3/14/25		100%
5.2	Final system testing & debugging	Zach, Walker	3/31/25	4/4/25		100%
6	**Final Report, Project Review & Closure**					
6.1	Compile final documentation & project findings	Walker	4/7/25	4/11/25		70%
6.2	Review and project closure	Everyone	4/14/25	4/18/25		60%

1. Initial Planning & Requirements
  1.1 Define project scope:
    - Decide upon a final deliverable for the sponsor.
    - Agree upon a limited set of features for the deliverable.
  1.2 Project Charter:
    - Define project structure to include milestones, timelines, member roles, objectives, and impacts.
  1.3 Requirements Document:
    - Explicit list of metrics to encapsulate the project.
  1.4 Project Plan:
    - Map of discrete steps necessary for project completion.
  1.5 Setup up project management tools and environment:
    - Select from available project management tools.
    - Create repositories for project code and bookkeeping.
2. Research, Design
  2.1 Research Title Fraud:
    - Develop a broad understanding of title fraud.
  2.2 Research Title Transfer Process:
    - Understand parties and documents involved for future application.
  2.3 Research Current Industry Tools:
    - Decide what tools are applicable to the title transfer process.
    - Refine list to those relevant to the project.
  2.4 Research Project Planning Platforms:
    - Select an environment that facilitates team management.
  2.5 Website Information Gathering
    - Identify websites from which to gather land title data.
  2.6 Research Listing Websites:
    - Learn what information is required to create a listing.
  2.7 Design system architecture and wireframes
    - Outline technical foundation of the deliverable.
    - Create tentative website design and navigation.
  2.8 Research and select technologies:
    - Discuss what tools could be used to accomplish deliverable objectives.
    - Research potential candidates.
    - Select those that work best for the project.
3. Prototype Development & Web Scraping
  3.1 Develop website prototype and backend:
    - Finalize wireframe model.

- Create a functional prototype.
- Implement backend for modularity and functionality.

    3.2 Implement web scraping for property & agent data:
- Create a web scraper tailored to extracting data from relevant listing websites.

    3.3 Scrape deed and mortgage information
- Expand data collection to include personal and financial information relative to the property.
- Expand list of web scraper compatible websites and the data collected.

4. Integration & Backend Development

    4.1 Integrate web scraping data into backend system:
- Store results of the web scraper for display

    4.2 Implement AI email generation & document creation
- Generation of communication via GPT-4.
- Output fraudulent communications based on the return values collected by the web scrapers. Demonstrates the effectiveness of basic data collection methods that are widely available to the public.

    4.3 Implement DeepLiveCam
- Generate face swapped videos to demonstrate how vulnerable a person's identity is in the modern era.

5. Website Design, Map, & Final Testing

    5.1 Website design & map integration:
- Finalize website generation of relevant information.
- Ensure functional integration of Google Maps.

    5.2 Final system testing & debugging:
- Test for unexpected behavior related to:
    - Data returned from the web scraper,
    - Database storage and queries,
    - Rendition of query results on the website,
    - Website navigation and presentation.

6. Final Report, Project Review & Closure

    6.1 Compile final report:
- Summary of insight regarding title fraud and development of a related tool.

    6.2 Review and project closure:
- Compare final deliverable against stated expectation.
- Feedback from the sponsor.