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		95%
1.3	Requirements Document	Everyone	10/2/24	12/8/24		100%
1.4	Project Plan	Everyone	10/2/24	12/8/24		90%
1.5	Set up project management tools & environment	Everyone	10/17/24	11/4/24		100%
2	**Research, Design & Database Setup**					
2.1	Research Title Fraud	Everyone	9/16/24	10/14/24		100%
2.2	Research Title Transer 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	Set up database schema and test environments	Everyone	10/14/24	10/21/24		50%
2.6	Website Information Gathering	Everyone	10/14/24	10/28/24		
2.7	Research Listing Websites	Everyone	10/21/24	10/28/24		
2.8	Design system architecture & wireframes	Everyone	11/14/24	11/18/24		50%
2.9	Research & select technologies (scraping, AI, web)	Everyone	11/4/24	11/25/24		90%
3	**Prototype Development & Web Scraping**					
3.1	Develop website prototype and backend		1/13/25	2/7/25		0%
3.2	Implement web scraping for property & agent data		1/13/25	2/14/25		0%
3.3	Scrape social media and mortgage information		2/15/25	2/21/25		0%
4	**Integration & Backend Development**					
4.1	Integrate web scraping data into backend system		2/22/25	3/7/25		0%
4.2	Implement AI email generation & document creation		3/10/25	3/21/25		0%
5	**Website Design, Map, & Final Testing**					
5.1	Website design & map integration		3/10/25	3/14/25		0%
5.2	Final system testing & debugging		3/31/25	4/4/25		0%
6	**Final Report, Project Review & Closure**					
6.1	Compile final report & project findings		4/7/25	4/11/25		0%
6.2	Review and project closure		4/14/25	4/18/25		0%

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 & Database Setup
   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 Setup database schema and test environments:
   - Plan database structure to ensure effective database management.
   - Create test environments to ensure functionality.
   2.6 Website Information Gathering
   - Identify websites from which to gather land title data.
   2.7 Research Listing Websites:
   - Learn what information is required to create a listing.
   2.8 Design system architecture and wireframes
   - Outline technical foundation of the deliverable.
   - Create tentative website design and navigation.
   2.9 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 social media 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 within the database.

4.2 Implement AI email generation & document creation:
- Harness AI to create fraudulent documents and emails to be used in an attack.

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 and fraud findings:
- Summary of insight regarding title fraud and development of a related tool.

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