REVU - Project Development Management Platform

Team Members: Arisa Laloo alaloo2022@my.fit.edu, Chervelle Pierre cpierre2022@my.fit.edu

Faculty Advisor: Marius Silaghi msilaghi@fit.edu

Client: Marius Silaghi msilaghi@fit.edu

Date(s) of Meeting(s) with the Client for developing this Plan: 24th September 2025 ,

Progress of current Milestone (progress matrix)

Task	Completion %	Arisa	Chervelle	To do
1. Investigate tools	95%	50%	45%	Chose LLM
2. Hello World demos	50%	25%	25%	LLM, PostGreSQL
3. Requirement Document	100%	50%	50%	none
4. Design Document	100%	0	100%	none
5. Test Plan	100%	100%	0%	none
6.Compare and Select Collaboration Tools	100%	50%	50%	none

- Discussion (at least a paragraph) of each accomplished task (and obstacles) for the current Milestone:
    - Investigate Tools
        - Repository Retrieval and Metadata Extraction
            - GitHub CLI and GitPython were chosen for pulling the repository and extracting the metadata. GitHub API was chosen for validating the submitted repository.
        - Database and Storage:
            - After researching and comparing different database management systems, PostGreSQL was chosen as the main database for the system for storing analytics and reports. The python library

psycopg2 will be used to facilitate communication with the database
        - Authentication
            - Login and identity verification will be done using OAuth2. Authlib will be used to handle OAuth flow in the backend
        - Web Application and UI
            - Flask will be used for the backend. HTML, CSS and Javascript will be used for the frontend.
    - Hello World Demos
        - Tools for database have been installed. Set up and test demo are in progress.
    - Requirements Document
        - The team discussed the core functions of the system and the requirements of each feature then drafted a document based on this. This draft was discussed with our client and faculty advisor, Dr. Silaghi, to ensure the requirements were satisfactory. This document was then completed based on his feedback.
    - Design Document
        - After determining the core functions of the system and defining the requirements for each feature, the design document was created to describe how each functionality should be organized into the system architecture. A UML diagram showing the high level components of the system and mockups of the user interface were created to show the overall design of the system
    - Test Plan
        - After defining the requirements of each feature, the Test document was created. Test cases describing the input and expected output were created for each specific requirement to ensure each feature works as expected. Standard and edge cases were considered as well to ensure full test coverage of the system.
- Discussion (at least a paragraph) of contribution of each team member to the current Milestone:
    - Chervelle Pierre:
        - Investigated and chose tools for the User Interface and the LLM explanation checker. Assisted with the requirements documentation by defining the purpose, the scope and the specific requirements of the product. Developed the design document including mockups of the user interface.
    - Arisa Laloo:
        - Investigated and chose tools for repository retrieval and metadata extraction and analysis, database storage and authentication. Designed the test plan for the product and created the individual test cases for each feature. Created the UML Architecture Diagram for the design document.

Assisted with the requirements documentation by developing the overall description of the product and

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Task	Arisa	Chervelle
1.Implement, test & demo *basic UI*	10%	90%
2. Implement, test & demo *repository management*	85%	15%
3. Implement, test & demo *metadata extraction*	50%	50%
4 .Implement, test & demo *database integration*	100%	0%

- Plan for the next Milestone (task matrix)Discussion (at least a paragraph) of each planned task for the next Milestone
    - Implement basic User interface
        - A basic user interface will be implemented including login and a basic dashboard shell possibly with some navigation. This will be testing once implemented to ensure functionality
    - Implement Basic repository management module:
        - Implementation will include registering and deregistering repositories, data storage(repo name, owner etc)
    - Metadata Extraction and monitoring
        - Analyze commit data and store analysis in database for report generation
    - Database Integration
        - Basic database integration will be implemented including designing the schema, implementing connections between PostGreSQL, creating queries
- Date(s) of meeting(s) with Client during the current milestone: ...
- Client feedback on the current milestone
    - See faculty advisor below...
- Date(s) of meeting(s) with Faculty Advisor during the current milestone: 24th September 2025
- Faculty Advisor feedback on each task for the current Milestone
    - Task 1: ...
    - Task 2: ...
    - Task 3: ...

    - Task 4: ...
- Faculty Advisor Signature: _____ Date: _____
  ------ on a separate page ---------
- Evaluation by Faculty Advisor
    - Faculty Advisor: detach and return this page to Dr. Chan (HC 209) or email the scores to pkc@cs.fit.edu

○ Score (0-10) for each member: circle a score (or circle two adjacent scores for .25 or write down a real number between 0 and 10)

John Smith	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Jane Doe	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10

    - Facutly Advisor Signature: _____ Date: _____