Project Plan

Date: 6-09-2023

Project: Data Cleansing tool

Client: Eastern Region Municipality

Project Manager: Eng. Sarah Al-Thabit

Milestones

Milestone	Start Date	End Date	Percentage Completed	Description
Milestone 1	2023-07-30	2023-08-22	100%	Setting up the Server and Development Environment for the CLI Version
Milestone 2	2023-08-23	2023-9-15	90%	CLI Prototype
Milestone 3	2023-09-16	2023-9-30	60%	Error Detection And Data Correction
Milestone 4	2023-10-1	2023-11-24	0%	Web Dashboard

Milestone Details

Milestone 1: Setting up the Server and Development Environment for the CLI version

Details:

- Setting up the Python development environment with Python 3.8.10, pip3, and required libraries.
- Setting up Docker for containerization.

Milestone 2: CLI Prototype

Details:

- Detecting errors in Hijri dates of all tables in the database.
- Generating statistics about the types of errors.

- Identifying the exact rows that contain errors.

Milestone 3: Error Detection and Data Correction

Details:

- Development of sophisticated algorithms for error detection in data.
- Implementation of advanced data correction algorithms based on business owner decisions.
- Integration of error detection and correction mechanisms into the data cleansing tool.
- Testing and validation of error detection and correction processes on sample datasets.
- Documentation of error detection and correction algorithms for future reference.
- Conducting user acceptance testing (UAT) to ensure the accuracy and effectiveness of error detection and correction features.
- Fine-tuning of algorithms and processes based on UAT feedback.
- Preparation for the integration of error detection and correction into the production environment.

Milestone 4: Final Version of the Dashboard

Details:

- Completion of the core software package, encompassing all necessary features and functionality.
- Thorough development and documentation of the API to ensure seamless communication between components.
- Finalization of the interactive web-based Dashboard, including user interface enhancements and user experience optimization.
- Rigorous quality assurance and testing procedures to identify and rectify any issues.
- Performance optimization to guarantee efficient operation, even under heavy usage.
- Integration with production infrastructure, ensuring seamless deployment and scalability.
- User training and onboarding preparations for a smooth transition to the final version.
- Coordination with stakeholders for final approval and user acceptance testing.