Poem Project Plan Layout

Objective: Create a web application that empowers users to explore the world of poetry through AI-powered generation, emotional analysis, and dynamic visualizations.

# Key Milestones:

# Phase 1: Development

## A :

Backend: Set up development environment, choose appropriate backend language and framework (e.g., Node.js, Django), establish API connection with OpenAI.

Frontend: Choose frontend framework (e.g., React, Vue.js), design user interface mockups for prompt input, poem display, and emotion visualization.

B :

Backend: Develop functionality for accepting user prompts and sending them to OpenAI API, process and format poem response.

Frontend: Implement basic user interface with prompt input field and poem display area.

## C :

Backend: Integrate emotion analysis library (e.g., TextBlob, Google Cloud Natural Language API) to analyze generated poems.

Frontend: Design and implement dynamic pie chart for emotion visualization, update UI to display poem and pie chart.

## D:

Frontend: Develop smooth animations for user interactions like prompt submission and data updates.

Testing: Conduct initial unit and integration testing for backend and frontend functionality.

## E:

Deployment: Choose appropriate hosting platform (e.g., Heroku, Netlify), deploy initial version of the application for internal testing.

Documentation: Start writing project documentation outlining architecture, technologies, and usage instructions.

# Phase 2: Refinement and Launch

## A:

Feedback: Gather feedback from internal testers, iterate on functionality and user interface based on suggestions.

Polish: Optimize loading times, refine animations, address any accessibility concerns.

## B:

Testing: Conduct comprehensive functional and performance testing, ensuring cross-browser compatibility and responsiveness.