Project Initialization and Planning Phase

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| Date | 09th July 2024 |
| Project Title | AI Feedback Generator For Development Teams Using Palm's Text-Bison-001 |

# Project Proposal (Proposed Solution) report

The proposal report aims to transform the code review process using AI, boosting efficiency and accuracy. It tackles system inefficiencies, promising better operations, reduced errors, and happier development teams. Key features include a machine learning-based feedback model and real-time feedback generation.

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| **Project Overview** | |
| Objective | The primary objective is to revolutionize the code review process by implementing advanced AI techniques, ensuring faster and more accurate feedback. |
| Scope | The project comprehensively assesses and enhances the code review process, incorporating AI for a more robust and efficient system. |
| **Problem Statement** | |
| Description | Addressing inefficiencies and inconsistencies in the current code review system that adversely affect operational efficiency and developer satisfaction. |
| Impact | Solving these issues will result in improved operational efficiency, reduced errors, and an overall enhancement in the development process, contributing to developer satisfaction and organizational success. |
| **Proposed Solution** | |
| Approach | Employing AI techniques using Palm's Text-Bison-001 to analyze and generate feedback on code, creating a dynamic and adaptable code review system |
| Key Features | * Implementation of an AI-based feedback generation model. * Real-time feedback for quicker code reviews. * Continuous learning to adapt to evolving coding standards and practices. |

# Resource Requirements

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| **Resource Type** | **Description** | **Specification/Allocation** |
| **Hardware** | | |
| Computing Resources | CPU/GPU specifications, number of cores | T4 GPU |
| Memory | RAM specifications | 8 GB |
| Storage | Disk space for data, models, and logs | 1 TB SSD |
| **Software** | | |
| Frameworks | Python frameworks | Flask |
| Libraries | Additional libraries | Streamlit,Google-Generativeai |
| Development Environment | IDE | Streamlit,Command Prompt |
| **Data** | | |
| Data | Source, size, format | Public repositories with code examples, varying sizes, and formats (e.g., GitHub) |