**Project Initialization and Planning Phase**

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| Date | 12July 2024 |
| Team ID | SWTID1720075266 |
| Project Name | CodeXchange: An Al-Powered Code Translator Tool using Palm's chat-bison-001 |
| Maximum Marks | 3 Marks |

**Define Problem Statements (Al-Powered Code Translator Tool Statement Template):**

**Problem Statements**

1. **Platform Transition**: Facilitate seamless code translation for migrating applications between different programming languages while maintaining functionality and performance.
2. **Multilingual Collaboration**: Enable effective collaboration among developers using different programming languages by translating code snippets, ensuring readability and integration.
3. **Code Reusability Across Projects**: Promote reusability by translating existing code for new projects, saving development time and maintaining consistency.
4. **Error Handling and Debugging**: Address errors and bugs in translated code, ensuring it runs as expected and adheres to best practices.

**Tabular Representation**

| **Problem Statement** | **I am (Customer)** | **I'm trying to** | **But Because** | **Which makes me**  **feel** |
| --- | --- | --- | --- | --- |
| **PS-1** | A developer want to translate his code into other programming language for his co-worker. | Translate code  snippets efficiently  across different  programming  languages | Need to ensure  accuracy and  maintain  functionality  across  translations | Confident in  producing reliable  code translations  that can be  seamlessly  integrated into  different projects |