Project Initialization and Planning Phase

Date	17 th July 2024
Team ID	SWTID1720025517
Project Name	CodeXchange: An AI-Powered Code Translator Tool Using Palm's Chat-Biison-001
Maximum Marks	3 Marks

Reference: https://miro.com/templates/customer-problem-statement/
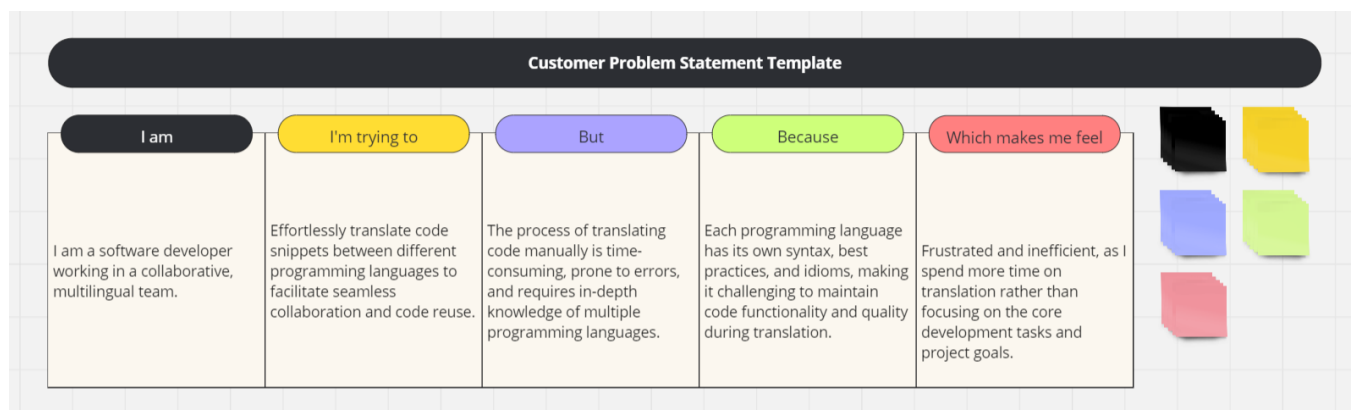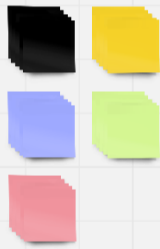

This problem statement highlights the key challenges faced by developers in a multilingual team and underscores the need for a solution like CodeXchange.
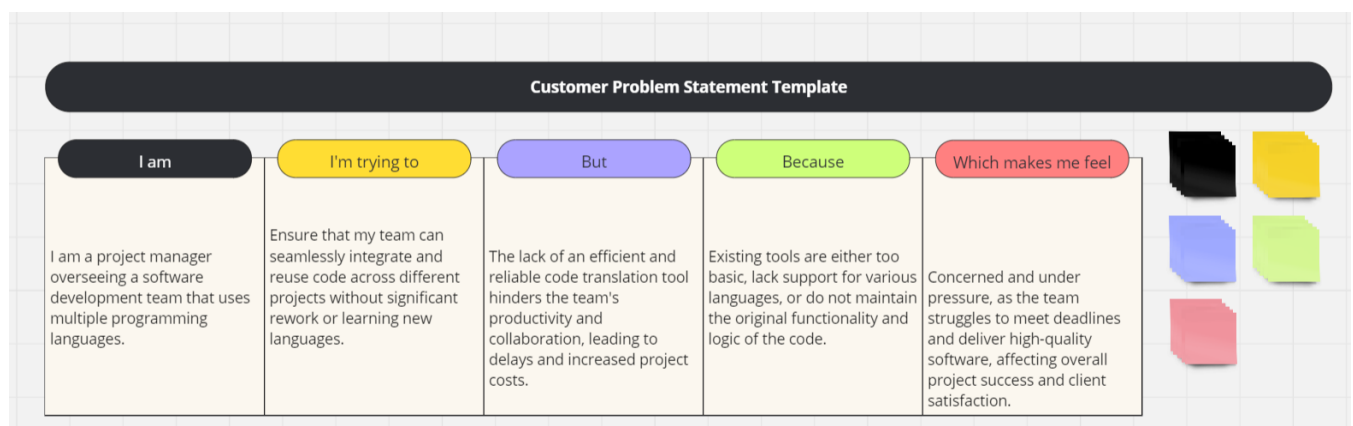
This problem statement emphasizes the managerial perspective, focusing on productivity, collaboration, and project success, underscoring the importance of an efficient code translation solution like CodeXchange.

This problem statement highlights the challenges faced by individual developers in a collaborative environment, emphasizing the need for a reliable code translation tool to improve efficiency and reduce frustration.

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	I am a software developer working in a collaborative, multilingual team.	Effortlessly translate code snippets between different programming languages to facilitate seamless collaboration and code reuse.	The process of translating code manually is time-consuming, prone to errors, and requires in-depth knowledge of multiple programming languages.	Each programming language has its own syntax, best practices, and idioms, making it challenging to maintain code functionality and quality during translation.	Frustrated and inefficient, as I spend more time on translation rather than focusing on the core development tasks and project goals.
PS-2	I am a project manager overseeing a software development team that uses multiple programming languages.	Ensure that my team can seamlessly integrate and reuse code across different projects without significant rework or learning new	The lack of an efficient and reliable code translation tool hinders the team's productivity and collaborati	Existing tools are either too basic, lack support for various languages, or do not maintain the original functionality and logic of the code.	Concerned and under pressure, as the team struggles to meet deadlines and deliver high-quality software, affecting overall project success and client satisfaction.

		languages.	on, leading to delays and increased project costs.		
PS-3	I am a software developer working on a cross-functional team with members who use different programming languages.	Collaborate effectively with my teammates by sharing and integrating code without having to manually rewrite it in different languages.	The current manual process of translating code between languages is time-consuming and error-prone, leading to inconsistencies and bugs.	There is no reliable tool that accurately translates code while preserving its original functionality and logic.	Frustrated and inefficient, as I spend more time on translation tasks rather than focusing on developing new features and improving the software quality.