

# Project Initialization and Planning Phase

Date	15 March 2024
Team ID	SWTID1720013872
Project Name	CodeXchange
Maximum Marks	3 Marks

## Define Problem Statements (Customer Problem Statement Template):

In the dynamic and diverse landscape of software development, developers often face challenges in transitioning code between different programming languages, collaborating within multilingual teams, and reusing code across various projects. These challenges can lead to increased development time, potential introduction of errors, and hindered productivity. Existing solutions may lack accuracy in code translation, fail to preserve the original functionality and logic, or have limited language support, further complicating the development workflow.

### Example:

Problem Statement (PS)	I am (Customer)	I’m trying to	But	Because	Which makes me feel
PS-1	A developer working on a multilingual project.	Translate code snippets between different programming languages.	My team members use different programming languages.	I want to enhance collaboration and productivity within my team.	Challenged but also motivated to improve our workflow.
PS-2	A developer migrating an application to a new platform.	Convert my existing code from python to java.	The manual translation process is time-consuming and error-prone.	I need to leverage Java’s robustness and scalability for an enterprise environment.	Frustrated by the slow and error-prone manual translation process.