


# **Codexchange: An Ai-Powered Code Translator Tool Using Palm's Chat-bison**



## Details

## Information

Date	18 July 2024
Team id	SWTID1720596651
Project Name	CodeXchange: An AI-Powered Code Translator Tool using Palm's chat-bison-001
Maximum Marks	3 Marks

### Define Problem Statements (AI-Powered Code Translator Tool Statement Template)

#### *Problem Statements*

- 1. Enable Effortless Code Translation:** Enable effortless code translation to facilitate migrating applications between various programming languages while preserving functionality and performance.
- 2. Assist Developers in Effective Collaboration:** Assist developers in collaborating effectively by translating code snippets between different programming languages, ensuring readability and smooth integration.
- 3. Code Reusability Across Projects:** Enhance code reusability by translating existing code for new projects, reducing development time and maintaining consistency.

4. **Improve Code Reliability:** Improve the reliability of translated code by addressing errors and bugs, ensuring it runs as expected and adheres to best practices.

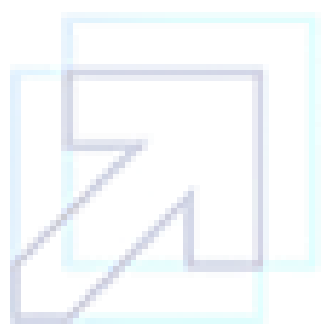
## Problem Statements

<b>I am</b>	Describe customer with 3-4 key characteristics: who are they?	Describe the customer and their attributes here
<b>I'm trying to</b>	List their outcome or "job" they want - what are they trying to achieve?	List the thing they are trying to achieve here
<b>but</b>	Describe what problems or barriers stand in the way - what bothers them most?	Describe the problems or barriers that get in the way here
<b>because</b>	Explain the "root cause" of why the problem or barrier exists - what needs to be solved?	Describe the reason the problems or barriers exist
<b>which makes me feel</b>	Describe the emotions from the customer's point of view - how does it impact them emotionally?	Describe the emotions the result from experiencing the problems or barriers

Problem Statement-1	I am (Customer)	I am trying to	But	Because	Which makes me feel
PS-1	A developer	Efficiently translate code snippets across different languages	It is challenging to ensure accuracy and maintain functionality across translations	I need to produce reliable code translations that can be seamlessly integrated into different projects	Frustrated and concerned about the quality and reliability of the translated code
PS-2	A development team member	Collaborate effectively by sharing translated code snippets	It is difficult to achieve readability and integration across languages	It is difficult to achieve readability and integration across languages	Empowered to work cohesively with team members, regardless of the programming languages they use

**PS-1** A developer who needs to translate code into another programming language for a co-worker. Efficiently translate code snippets across different languages. It is challenging to ensure accuracy and maintain functionality across translations. Confident in producing reliable code translations that can be seamlessly integrated into different projects.

**PS-2** A development team member collaborating with peers using different programming languages. Collaborate effectively by sharing translated code snippets. It is difficult to achieve readability and integration across languages. Empowered to work cohesively with team members, regardless of the programming languages they use.



Smart  
Internz