

## Model Development Phase Template

Date	16 July 2024
Team ID	
Project Title	CodeXchange – An AI Powered Code Translator Tool using Palm's chatbison-001
Maximum Marks	5 Marks

### Feature Selection Report Template

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

Feature	Description	Selected (Yes/No)	Reasoning
Code Snippet	The piece of code to be translated	Yes	Fundamental for the translation process.
Source Language	The original programming language of the code	Yes	Essential for identifying the language from which the code will be translated.
Target Language	The desired programming language for translation	Yes	Essential for identifying the language to which the code will be translated.
Function Name	The name of the function in the code snippet	No	Not required for translation; focus is on code functionality rather than naming conventions.

Number of Lines	The number of lines in the code snippet	Yes	Helps in managing and optimizing translation for different code lengths.
Comments	Comments within the code	Yes	Important for maintaining readability and context during translation.
Variable Names	Names of variables used in the code	Yes	Crucial for maintaining consistency and understanding in translated code.
Complexity Level	Complexity level of the code snippet	Yes	Useful for determining translation strategies and potential challenges.
Execution Time	Time taken to execute the code snippet	No	Not directly relevant to the translation process.
Error Handling	Error handling mechanisms in the code	Yes	Ensures that translated code maintains robustness and error management.
Code Dependencies	External libraries or dependencies used	Yes	Necessary for translating code that relies on specific libraries or modules.
Code Explanations	Detailed explanations of the code functionality	Yes	Provides insights and understanding of the translated code's logic and functionality.
Download Option	Option to download the translated code	Yes	Facilitates easy access and use of the translated code by users.