

# BITS PEEPS





# Team Members

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# Introduction



A project designed by students from BITS Pilani, Dubai Campus.

This prototype, which we developed, will assist users in writing code based on prompts, optimizing their code, translating it from one language to another, and fixing errors.





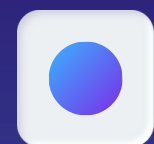
# Problem



## Compatibility & Performance Issues

Compatibility issues involve differences in memory management and data structures. This directly affects the performance of the system.

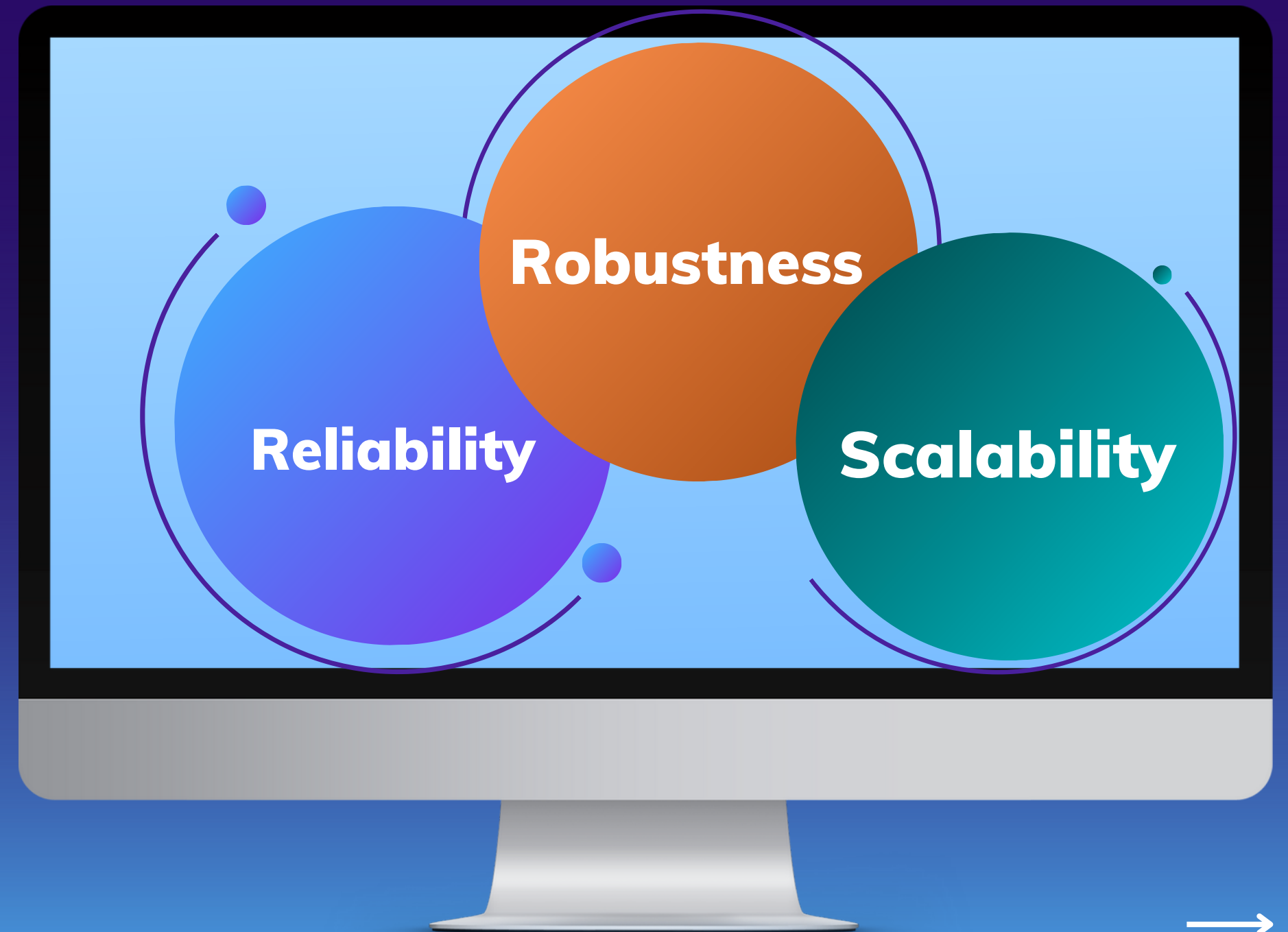
Performance issues arise when the programming language does not match the system and it is slowed down, thus resource consumption increases.



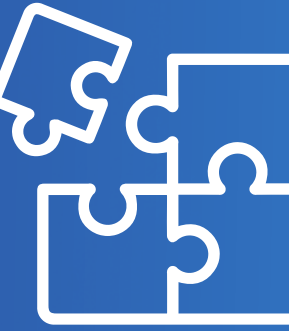
## Inefficient & Unrefined Codes

Inefficient code does not make the most of the resources at hand, is slower to execute, or uses more resources than are required.

Code that has not been refined or optimized to its maximum potential is referred to as being unrefined.







# Solution

We help the users improve by optimizing code, fixing errors, translating code from one language to another, and an additional features involves thorough explanation of the code



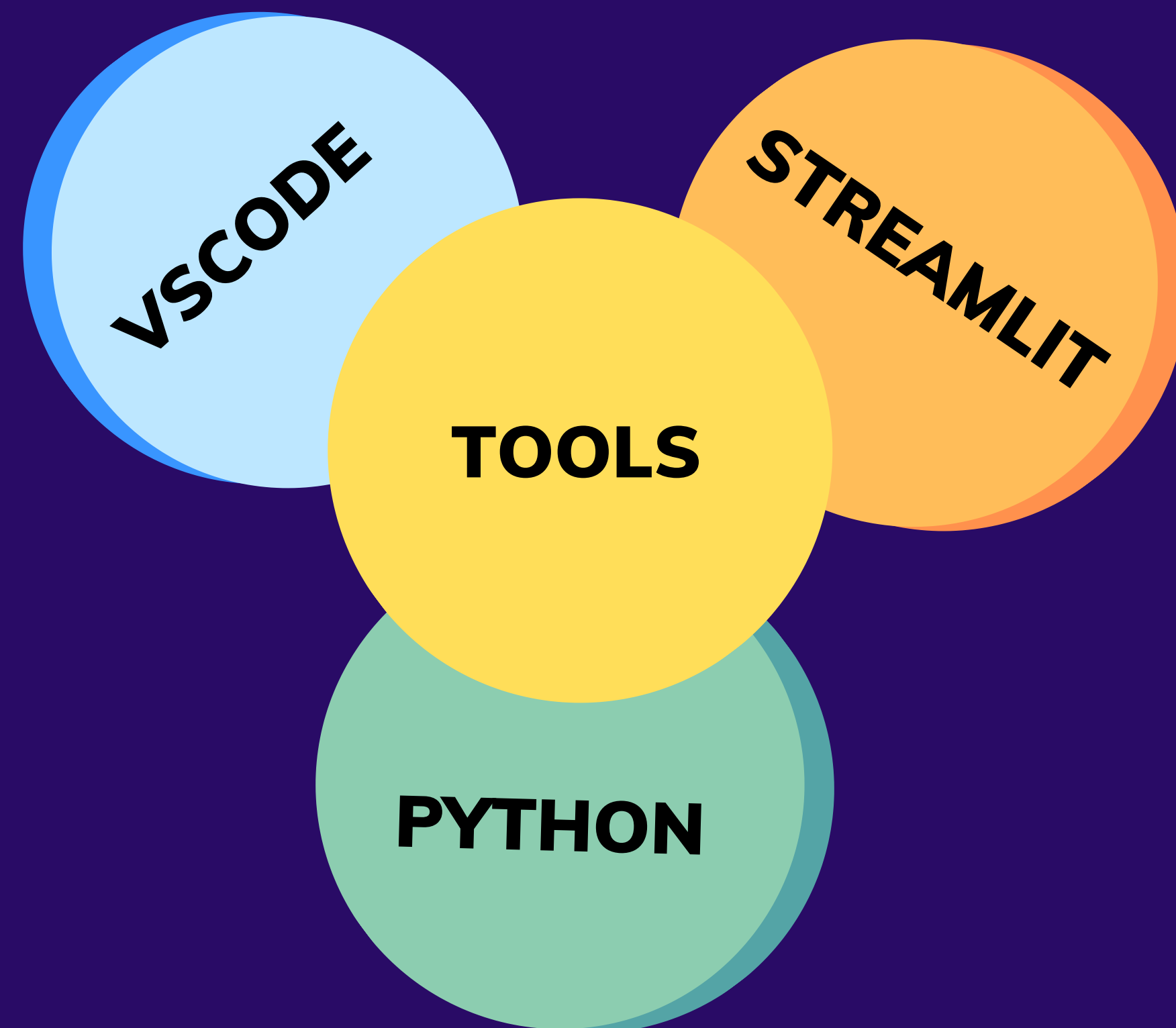


# Model & Tools



## MODEL-CODEX

Codex is a language model developed by OpenAI that can be applied to a wide range of natural language processing (NLP) tasks.





# How it Works

- Developers and programmers can use the code optimization and error fixing app as a tool to find and correct errors in their code and to optimize it for increased performance.
- The app supports about 200 various programming languages
- App created using Codex, a cutting-edge AI language model

01



02



- The app offers a user-friendly interface that enables developers to quickly identify any errors or issues with their code and submit it with ease.
- The software analyzes the code and highlights any potential errors or bugs using sophisticated algorithms and machine learning techniques.
- Additionally, it offers advice and tips for resolving the issues and performance-enhancing code optimization.

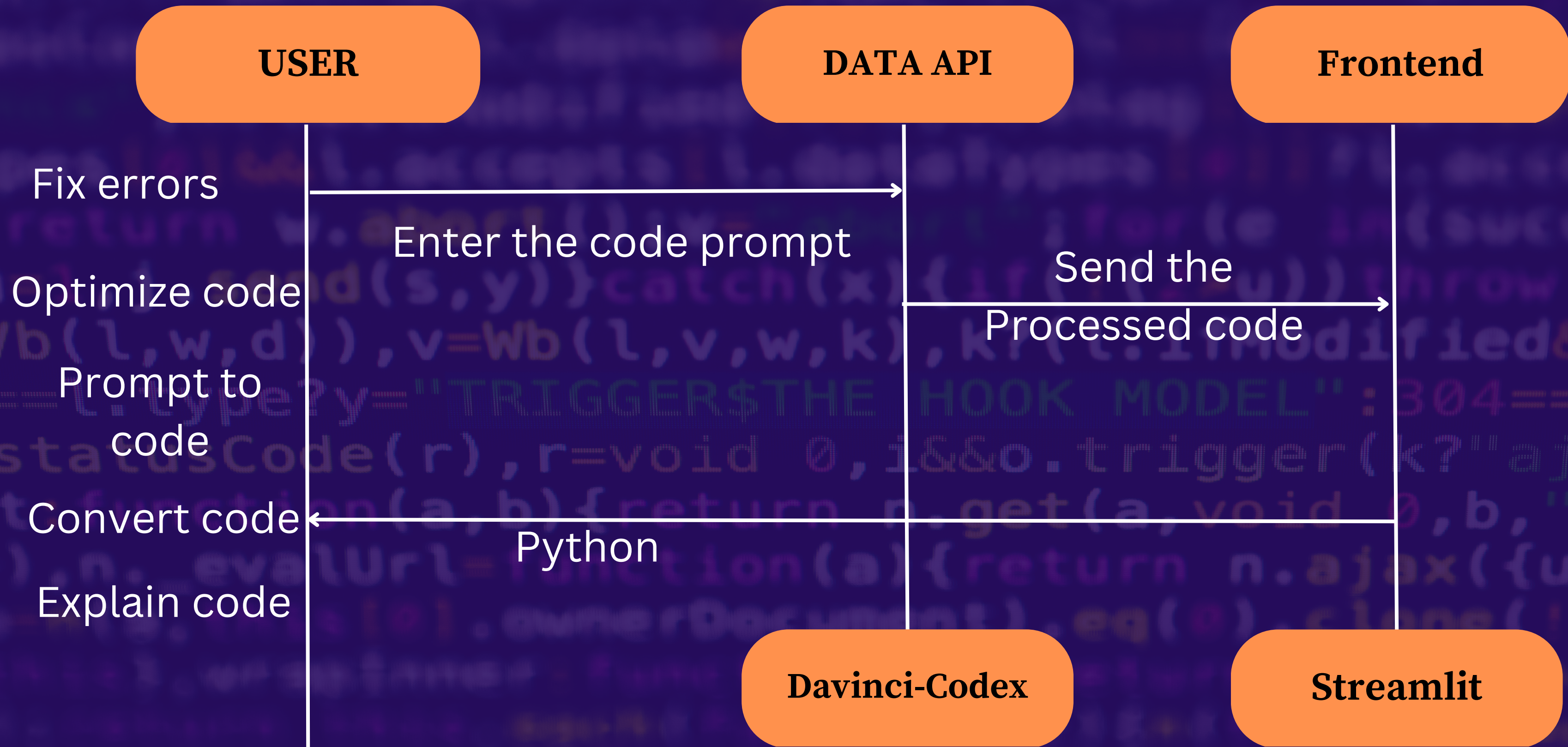
- The app's capability to offer real-time feedback while the developer is coding is one of its key benefits.
- Instead of manually debugging the code, the app spots errors and offers advice on how to repair the problems as the developer is writing the code.

03





# METHODOLOGY







### **Investing in AI and Automation**

Through this, we can help streamline optimization, translation, and error-fixing processes. This will save time and resources

### **Expanding Services**

Our company can expand its services by including a wider range of languages, platforms, and technologies. This will broaden our target audience & provide comprehensive solutions to our clients

## **Future works**

### **Offering Consulting & Training**

Clients of our company can improve their development skills and can minimize the need of an ongoing code maintenance







**Thank You.**