

Team Polaris

Code Testify

AI

Revolutionizing unit testing with AI-generated tests for efficient bug identification and flawless code.

Gemini AI Hackathon

lab lab
ai

Problem Statement



Manual unit test case creation in software development is time-consuming and error-prone, leading to incomplete test coverage and lower code quality

Coordinating and maintaining tests across multiple developers adds further complexity and inefficiency to the process.

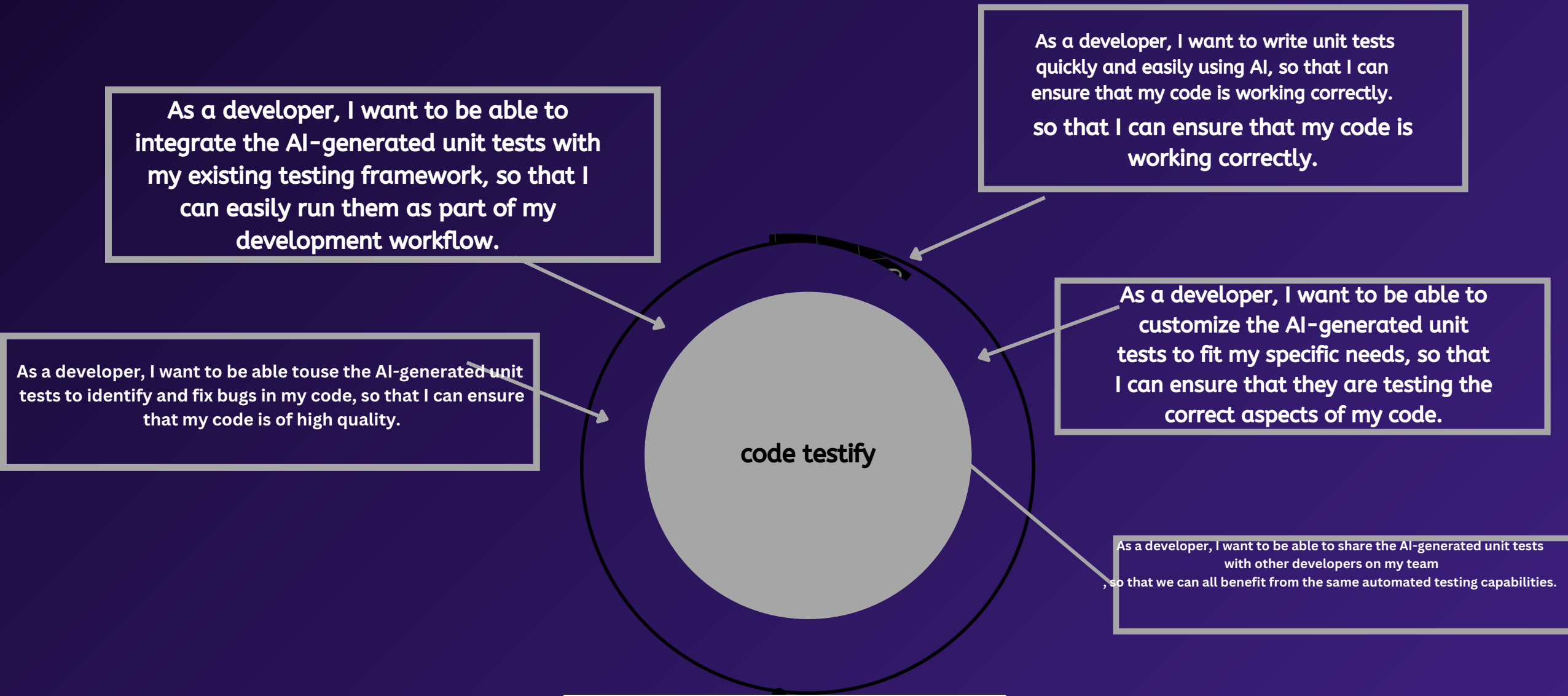
There is a pressing need for an automated solution that can generate comprehensive unit tests efficiently, ensuring code reliability and streamlining the testing workflow for developers.

How Not Writing Tests Slows Down

- **A survey conducted by GitLab found that developers spend approximately 20% of their time debugging and fixing issues that could have been prevented with proper testing.**
- **According to a report by CA Technologies, organizations that do not prioritize testing experience a 60% higher cost of quality compared to those that do.**
- **Studies have shown that the cost of fixing a defect increases exponentially as it progresses through the software development lifecycle, with fixes being up to 100 times more expensive in production than during the requirements phase.**

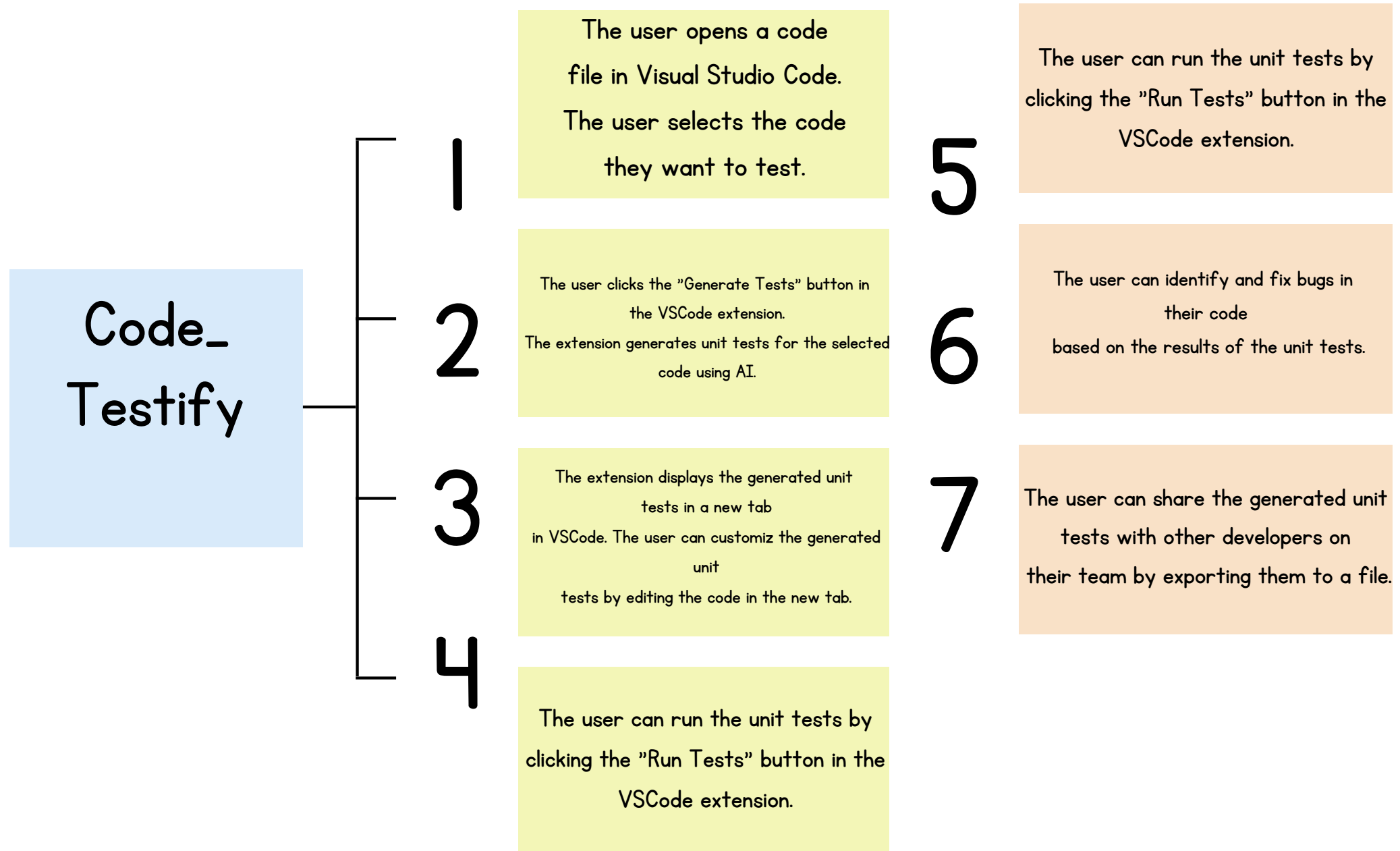
To solve this problem, we came up with a product idea

“Code Testify”

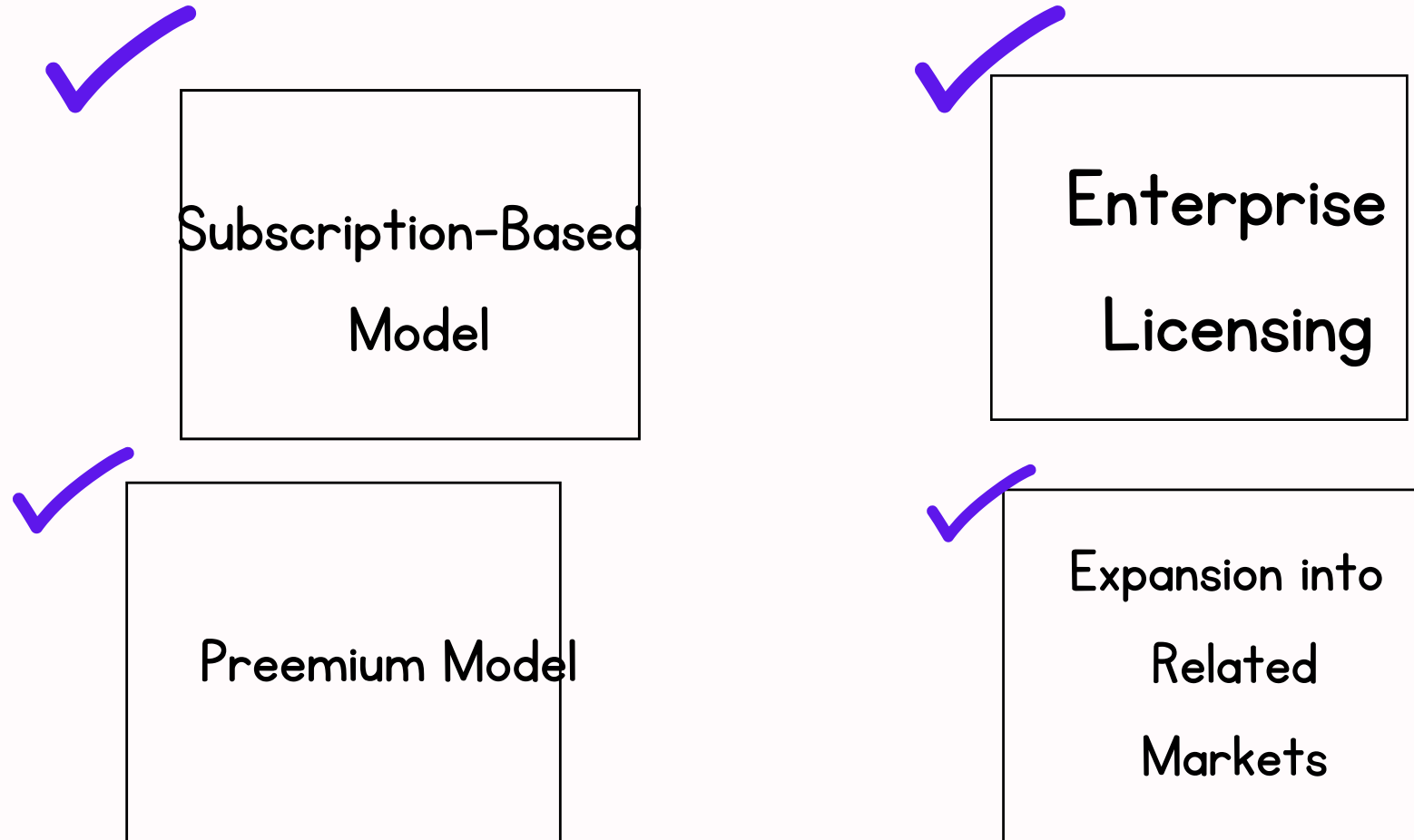


And as a developer, I can do all of these things with the help of “Code Testify”

How It works?



Business model/Future plans:



By implementing a combination of these strategies, Code Testify can establish itself as a leading solution in the automated testing market while ensuring long-term success and sustainability.

Conclusion

Code Testify harnesses the power of AI to revolutionize unit testing. Here's how it stacks up:

Cost Reduction:

Automated testing can reduce testing time by up to 85% and improve defect detection rates by up to 90%, as shown by a study by Capers Jones.

Increased Productivity:

Companies that prioritize automated testing report higher customer satisfaction rates and reduced time to market for new features and products.

Quality Improvement:

Automated testing tools like AutoTestGen can significantly enhance code reliability, leading to fewer failures and higher-quality software.

Thank you!