

Code Generation



Affan Hussain

Software Engineer

The life and death of generated code

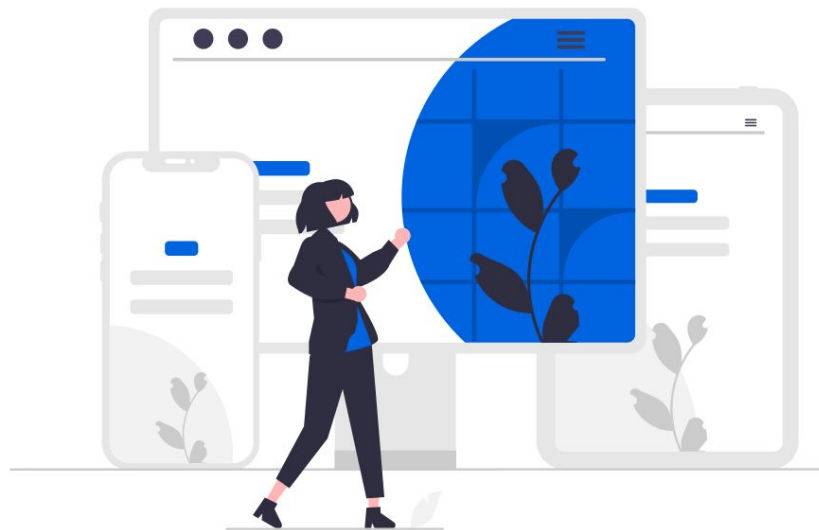
Turning solutions into problems

The Monorepo

How do we make writing code as easy as possible?

A DevX-first repository:

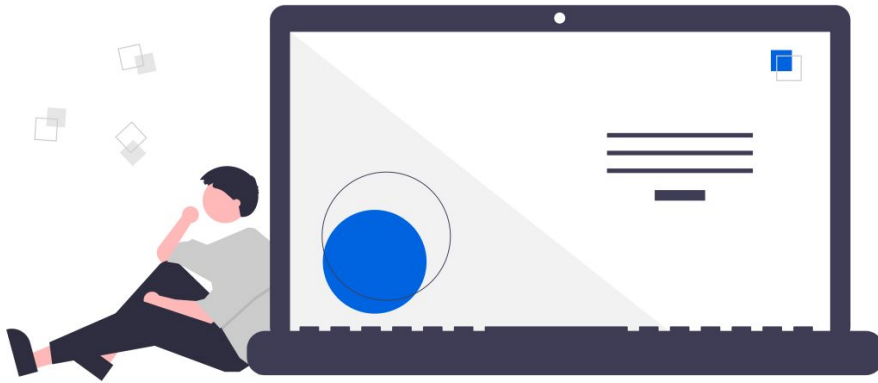
- No build
- No explicit imports / dependencies
- Monolithic release



What is generated code

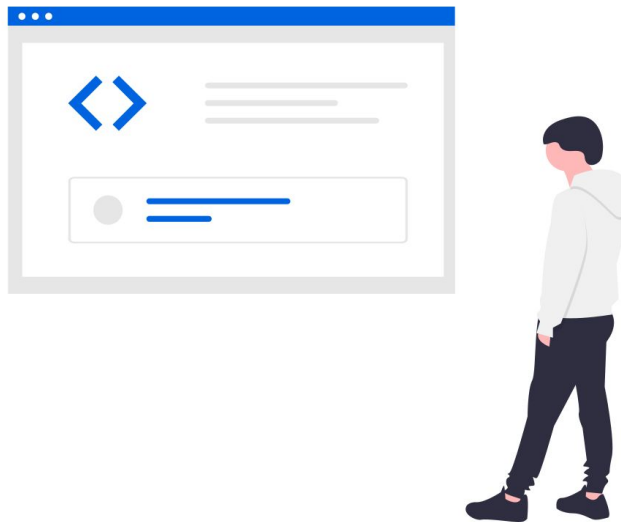
Code that has been generated, signed, and checked into the repo

Typically used by frameworks to improve dev experience



Request routing

“Request routing is too much work” - Meta dev



This is amazing

“Oh, we can do that for <all of our problems>”



Supporting and scaling generated code

- Interacting with code generation
- Writing new code generation

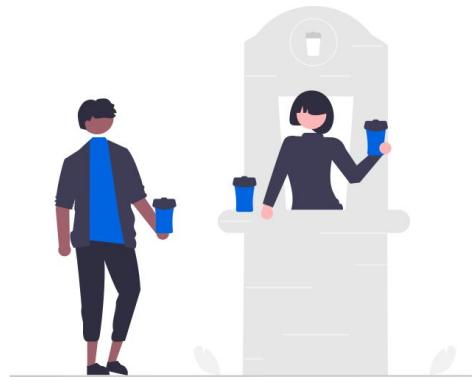
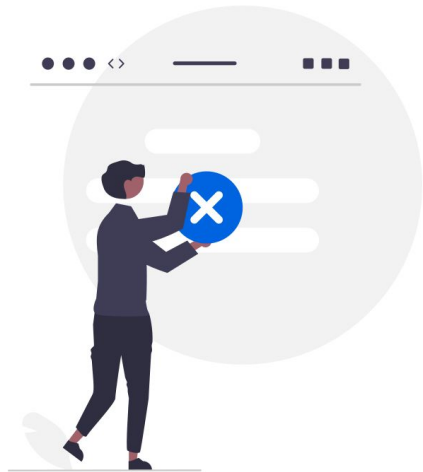


Years later...

“It takes so long to regenerate the code!”

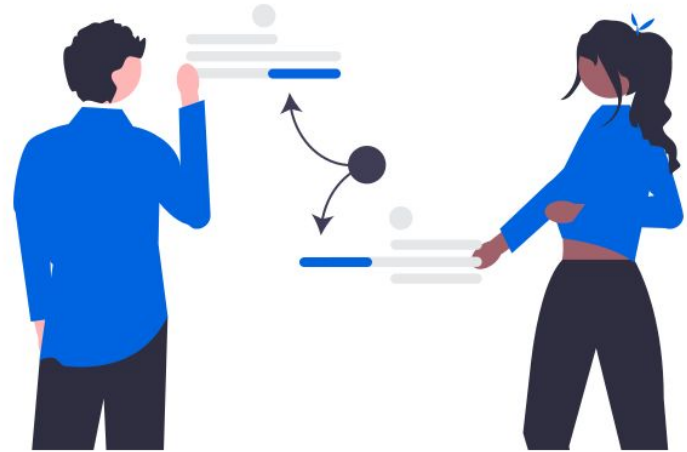
“Why is there broken code in mainline?”

“Rebasing my diff takes longer than getting a coffee.”



Understanding and taming the problem

- Improve existing frameworks
- Build smart caches
- Improve the language



Takeaways



Small and new frameworks will copy the solutions used in major frameworks



Developers will go for the most approachable solution even if it's not the best solution



If your solution grows into a problem, step back, reevaluate, and build new solutions

