MyRental Technical Review

Billing Team

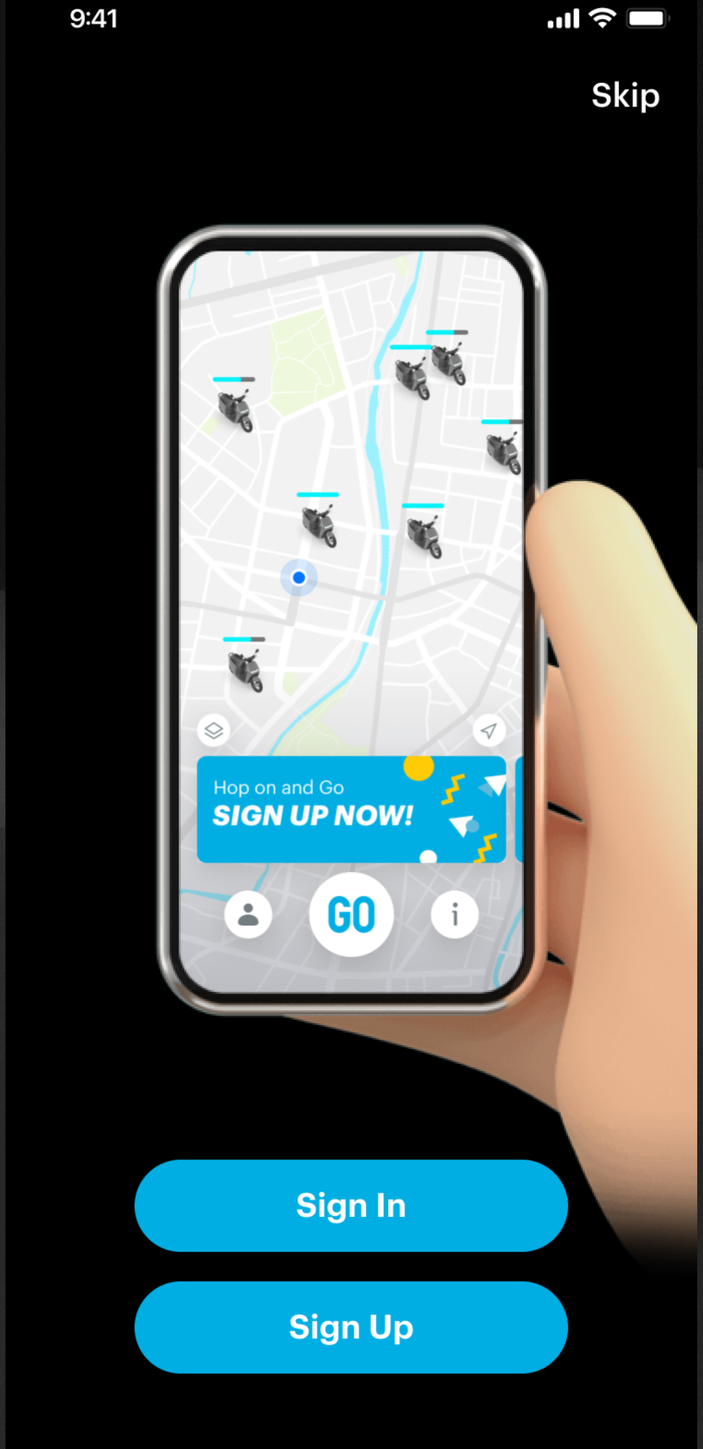
Jimmy Liao

Question:
What’s the core values in Gogoro software teams?

Answer:
Fast Development and High Quality

MyRental Project

We have to do something different to reach Fast Development and High Quality.



Fast Development

Fast Development

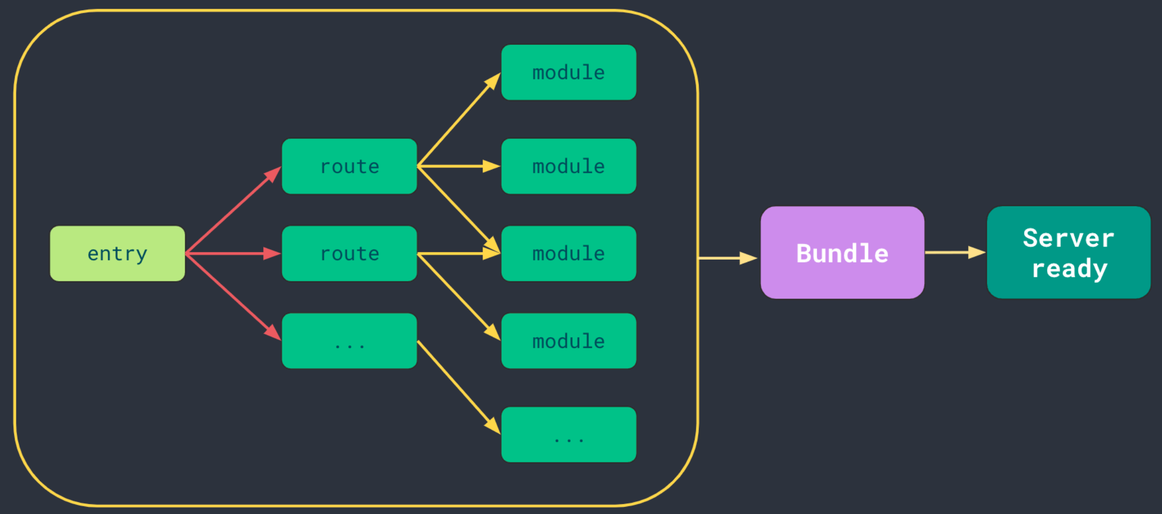
Vite

A build tool that aims to provide a faster and leaner DX

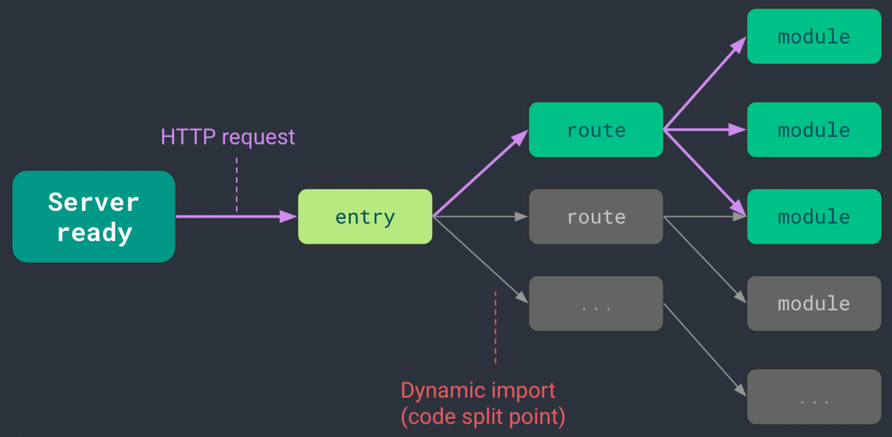
Vite

- French word for "quick", pronounced /vit/, like "veet"
- Super fast dev server start
- Super fast Hot Module Reload (HMR)

Bundle based dev server

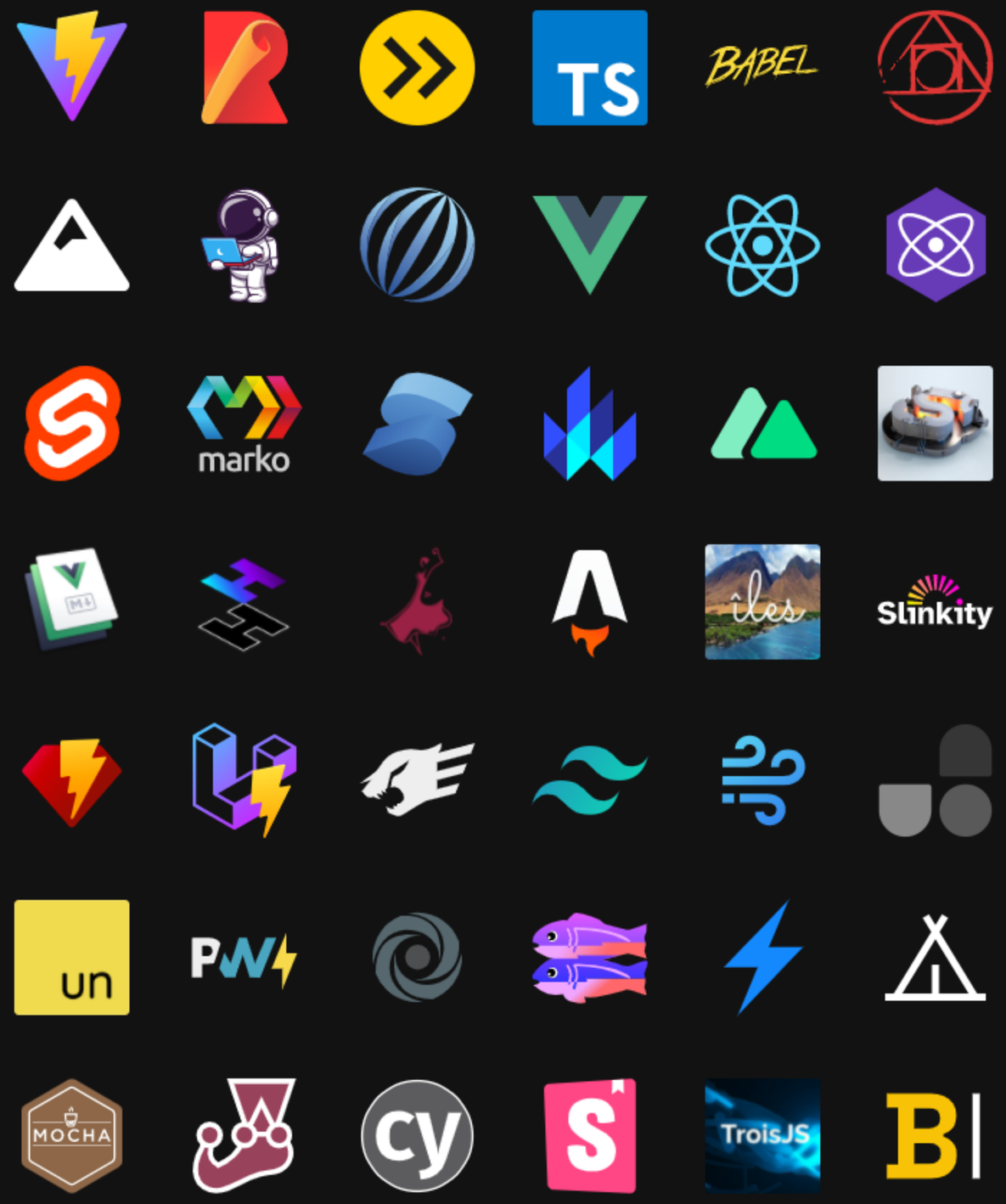


Native ESM based dev server



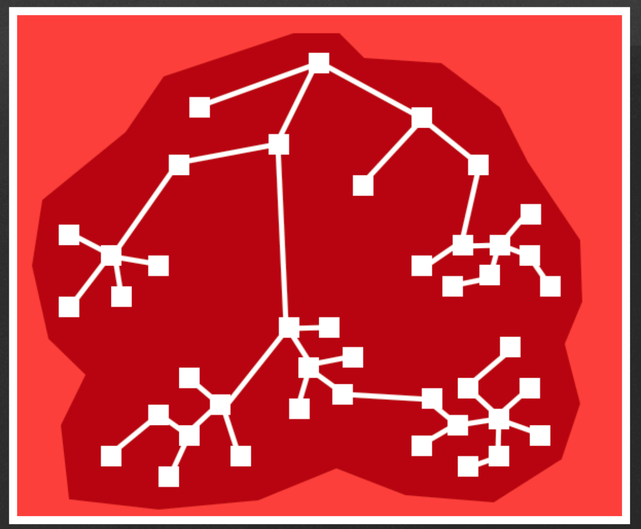
Ecosystem

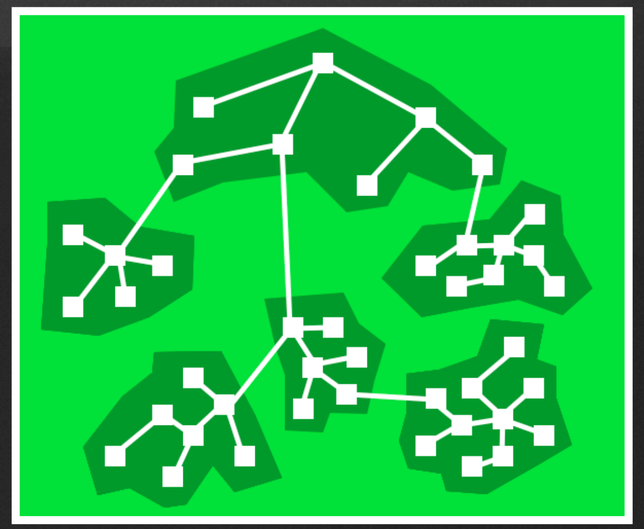
- Vitest
- Storybook by Vite
- Vue.js, Angular and more



Code-Splitting

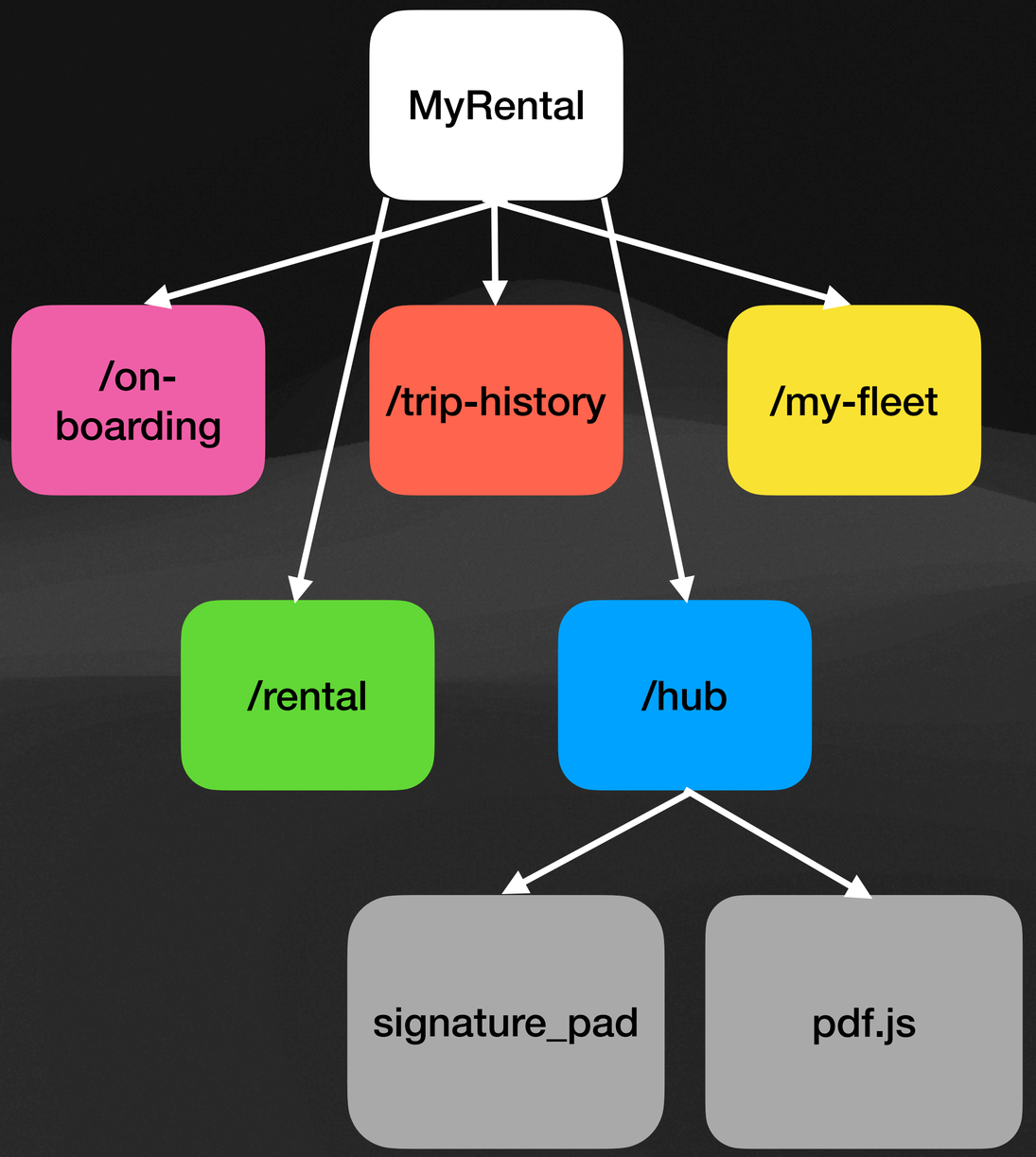
- Splitting app bundle into smaller chunks
- Only loading the code required
- Improve app's initial load





Splitting Strategy

- By endpoint
- By react-router + react.lazy
- Chunk size should be less than 500 kBs



Demo

Once you experience how fast Vite is,
you'd not be willing to put up with bundled development again.

Vite Q&A

High Quality

High Quality

TypeScript

Strongly typed programming language that builds on JavaScript

TypeScript

- Type checking
- IDE support, better DX
- Safety at scale and confident

TypeScript Cons

- 3rd party and framework support (~90%)
- Some learning curve
- Slow checking while project grows up

Who use TypeScript

- TypeScript was **used by 78%** of the 2020 State of JS respondents, with 93% saying they would use it again.
- Google, Slack, Airbnb…
- Dcard, Line, KKBox…

TypeScript in Gogoro

- Billing Component
- Fleet Portal, Fleet Dashboard, Badge Dashboard, Go Chatbot
- Fleet Back-end (Portal, Dashboard, Billing, Billing Dispatcher), Badge Dashboard, Go Game Service

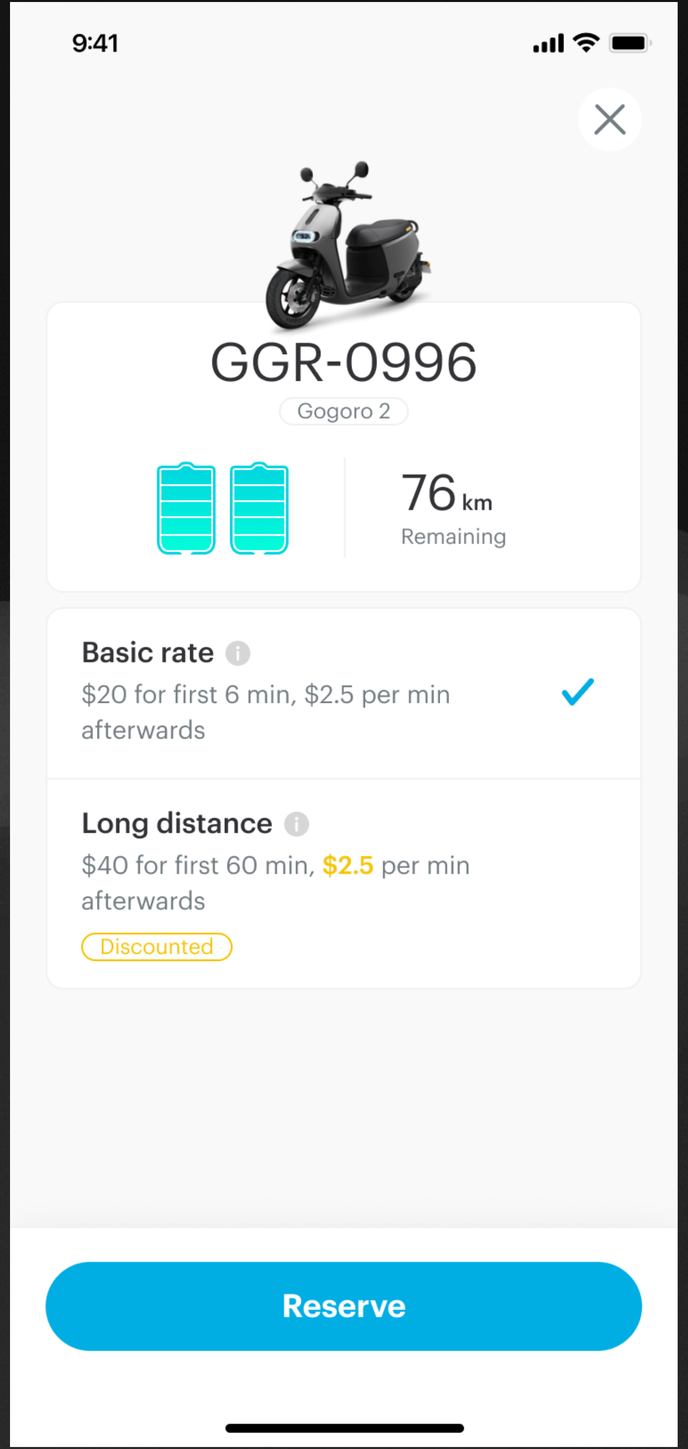
Partial TypeScript in Gogoro

- GNOP, SBMS ,Prospect, Franchisee Dashboard, Franchisee Portal
- Service Portal, Service Dashboard, Sales Portal, Sales Dashboard

MyRental
Is first toC TypeScript Project in Gogoro

TypeScript in MyRental

- Vite supports TypeScript files out of the box.
- Type checking before building project
- 100% TS and TSX



TypeScript User Experience

TypeScript Demo

TypeScript Q&A

And AI

AI pair programming is here.

75% more fulfilled

55%
faster coding

runtime.go

```
// Get average runtime o
func averageRuntimeInSec
    var totalTime int
    var failedRuns int
    for _, run := range
        if run.Failed {
            failedRuns++
        } else {
```

Keep flying with your favorite editor

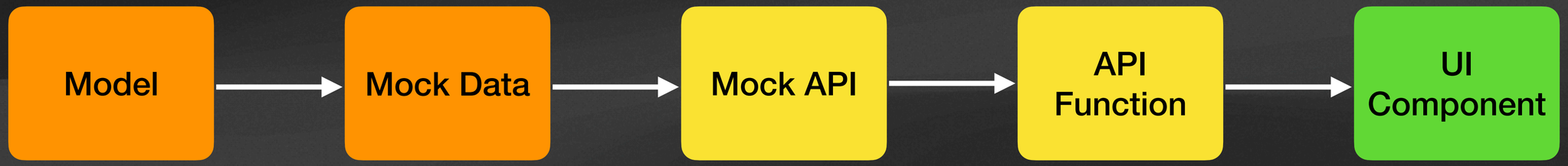
46%
code written

Now available for
all businesses

GitHub Copilot

- Integrate with VSCode
- Generate TypeScript code
- Generate unit testing

Copilot Working Flow



GitHub Copilot Chat

CHAT: GITHUB COPILOT

monalisa

Write a set of unit test functions for the selected code

GitHub Copilot

```
import unittest
import datetime

class TestParseExpenses(unittest.TestCase):
    def test_parse_expenses_with_valid_input(self
        expenses_string = '2023-01-02 -34.01 USD\
        expected_output = [(datetime.datetime(202
        self.assertEqual(parse_expenses(expenses_

    def test_parse_expenses_with_empty_input(self
        expenses_string = ''
        expected_output = []
        self.assertEqual(parse_expenses(expenses
```

module.py

```
import datetime

def parse_expenses (expenses_string):
    """Parse the list of expenses and return the list of triples (date, amount, currency).
    Ignore lines starting with #.
    Parse the date using datetime.
    Example expenses_string:
        2023-01-02 -34.01 USD
        2023-01-03 2.59 DKK
        2023-01-03 -2.72 EUR
    """
    expenses = []

    for line in expenses_string.splitlines():
        if line.startswith("#"):
            continue
        date, value, currency = line.split (" ")
        expenses.append((datetime.datetime.strptime (date, "%Y-%m-%d"),
                         float (value),
                         currency))
        return expenses
```

GitHub Copilot Demo

Q&A

Fast Development
High Quality
AI

And Our Gogoro Teams

Thank you for listening