Investec Bank ← GraphQL API

Out of the Ordinary

Investec

Private Banking

Programmable Banking for Businesses

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Hello! 👋

Marcin Jekot | Got.Codes

A functional programming fan.
Different languages make you think differently.

Investec Bank ← GraphQL API

- **What** GraphQL for Investec Open Banking API
- **Why** GraphQL has a lot of benefits over REST
- **Stack** F# / .Net Core

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“ The human is more important than the technology.

Make things more human.

Steve Wozniak

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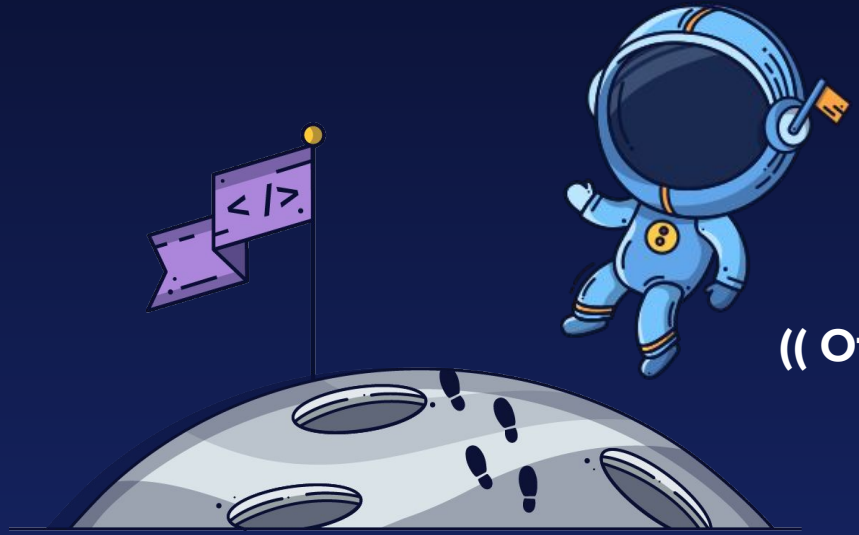

Concepts

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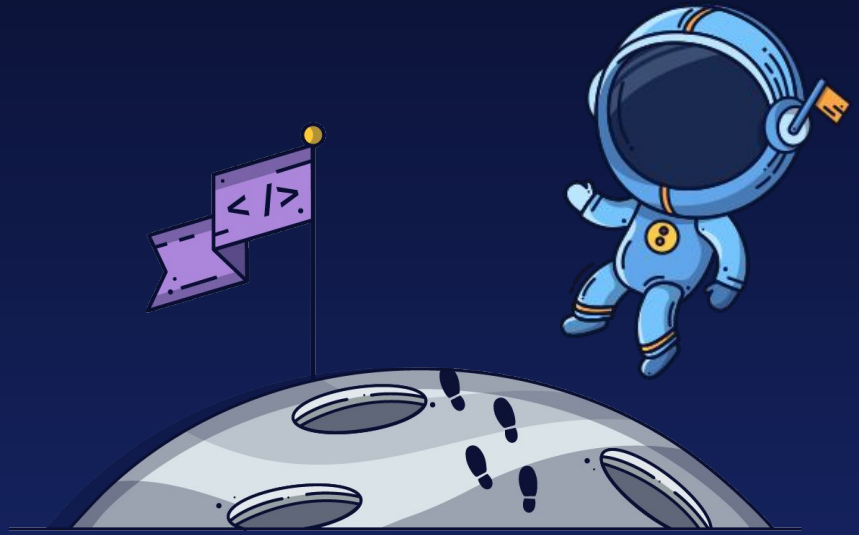
GraphQL

- API + types + documentation
- Always in sync
- OpenAPI (Swagger): no guarantees
- GraphQL keeps you honest
- REST: wrapper for each language
- GraphQL: single request to get what you need

Functional Programming

F#: Functional Programming with Static Types

- Evaluate F# for solving business problems
- Type inference
- Less code
- “Once your code compiles it usually works”
- Less bugs
- Good fit for GraphQL / JSON / REST



Demo

Conclusions

- F# ➜ 👍
- GraphQL ➜ 👌

Investec API 🙏

- Add timestamps 🕐
- Add original currency / amount € $ £
- Add GraphQL 😬

Next steps

Round 2:

- Evaluate using OCaml language
- GraphQL client libraries
- Frontend
- Real-time “live” queries (subscriptions)
- Multiple banks under one endpoint

Get Involved!

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Get in touch

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// Code will be open sourced soon

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Questions?