FINOS

Fintech Open Source Foundation



7 Unexpected Lessons from 2 Years of our SDK in Banks

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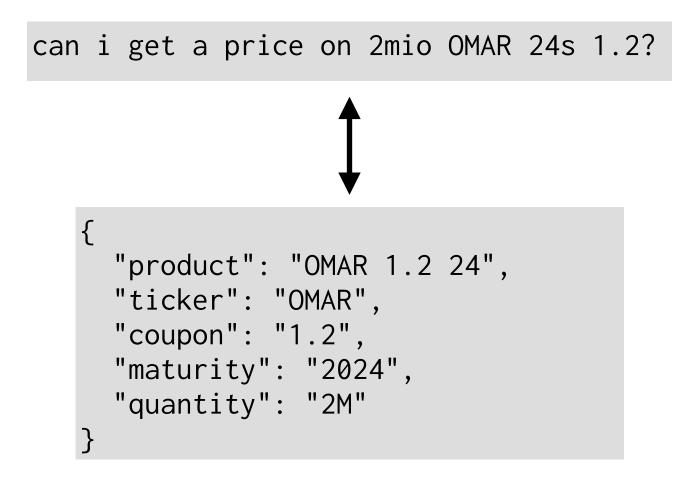


GreenKey Technologies

Better Decisions through NLP

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GreenKey NLP Engine





GreenKey Discovery SDK

- \succ You create your rules & definitions with Discovery SDK
- \succ GK Discovery Engine does the rest:
 - > Transcription -> determine intent
 - Search for relevant entities
 - \succ Proprietary algo for choosing best set
 - > Populate JSON



Downstream reports

- > Unlock Bloomberg chat data
- > Sell-side rankings
- \succ Trade reconstruction
- > Dictation to CRM
- \succ Tag data to generate trade ideas
- > Wealth management

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Startup ---- Bank



1. Don't assume GitHub accessibility

- GreenKey: Do you have GitHub access?
- Customer: Yes, the README looks great.
- GreenKey: Great. Clone the repo...
- Customer: Oh, we can't *clone* things.
- GreenKey: So how should we collaborate?
- Customer: Not sure, we can't do pull requests either.



2. Don't assume familiarity with tools

- > Your customers are not you
- > Banks are not the typical open-source community
- Some tools known: pip and npm
- > But not always:
 - > Docker
 - > UNIX CLI
 - > **bash** scripts



3. Don't assume tinkering

> Users either:

- > Ignore you
- \succ Do a "hello world", then ignore you
- > Have a mandate and schedule



4. Do assume every possible restriction

- > Admin access time limited!
- > Developer laptops half-locked down
- > Ports, protocols, permissions
- > FMEA helps
 - > "failure modes" how might every single component fail?
 - \succ "effects analysis" what are the consequences?
- > Reverse brainstorming



5. Do provide advanced tutorials

- > Be **very** explicit. (see #2)
- \succ TTFHW not enough for complex product
- > Use advanced tutorials to uncover risks (see #4)



6. Don't assume efficient communication

"Almost ready to ship. Have your met our CISO?"

- Separate departments =~ separate companies
- \succ Few understand their full organization
- > Engage all teams early: business, infrastructure, security



7. Don't assume anything!

"Almost ready to ship. Can you run it on RHEL 6?"

- > Aggressively hunt down risks & miscommunications
- > Think ahead
- > Ask questions
- > Expect to be surprised plan for curveballs



Summary

- > Don't assume GitHub access (or level)
- > Don't assume same knowledge of tooling
- > Don't assume tinkering
- > Do assume every possible restriction
- > Do provide advanced tutorials
- \succ Don't assume efficient communication
- > Don't assume anything!



Contribute!

- FINOS :: <u>https://github.com/finos</u>
- FINOS Financial Delivery Accelerator :: <u>https://www.finos.org/fdx</u>
- GreenKey Discovery SDK :: <u>https://github.com/finos/greenkey-discovery-sdk</u>

GreenKey ASR Toolkit :: <u>https://github.com/finos/greenkey-asrtoolkit</u>

