

Prototyping a REST API in Server Side Swift 3.0

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Overview

- REST API Overview/Review
- Server Side Swift
- Kitura
- Fridge Notes Demo

REST API Overview

- Subtype of "web API"
- Uses HTTP verbs to update URI resources
- "Representational State Transfer"
- Resource data is often in JSON instead of XML

Server Side Swift

- Open sourced
- Toolchain available for macOS or Linux
- Standard library built to not need the OSX frameworks

Kitura

- Open source web framework built by IBM
- Lightweight, relatively easy to set up
- Built around Package Manager
- Contains classes to handle SSL and URI routing and multiple available plugins

Demo

Fridge Notes

- Lets you post notes on a digital "refridgerator door" and read notes others have posted there. (Yes, I know, Twitter but this is a demo)
- Demo app is a workspace containing the iPhone client and the FridgeNotes Server.

Demo

Resources

- Swift 3.0
- Kitura - <https://github.com/IBM-Swift/Kitura>
- Other frameworks:
 - Vapor - <https://github.com/vapor/vapor>
 - Perfect - <http://perfect.org>