

API Workshop

Versioning

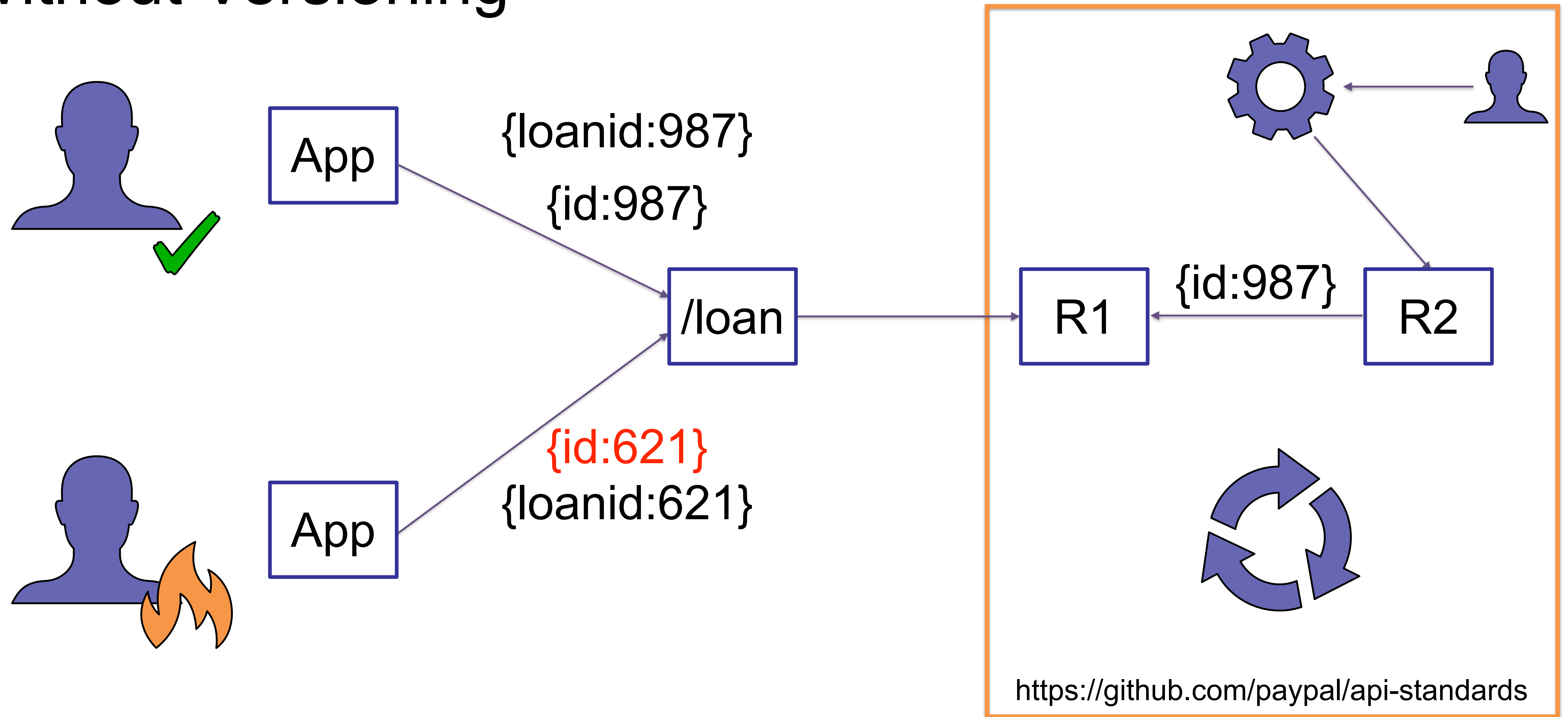
O'REILLY®

Software
Architecture

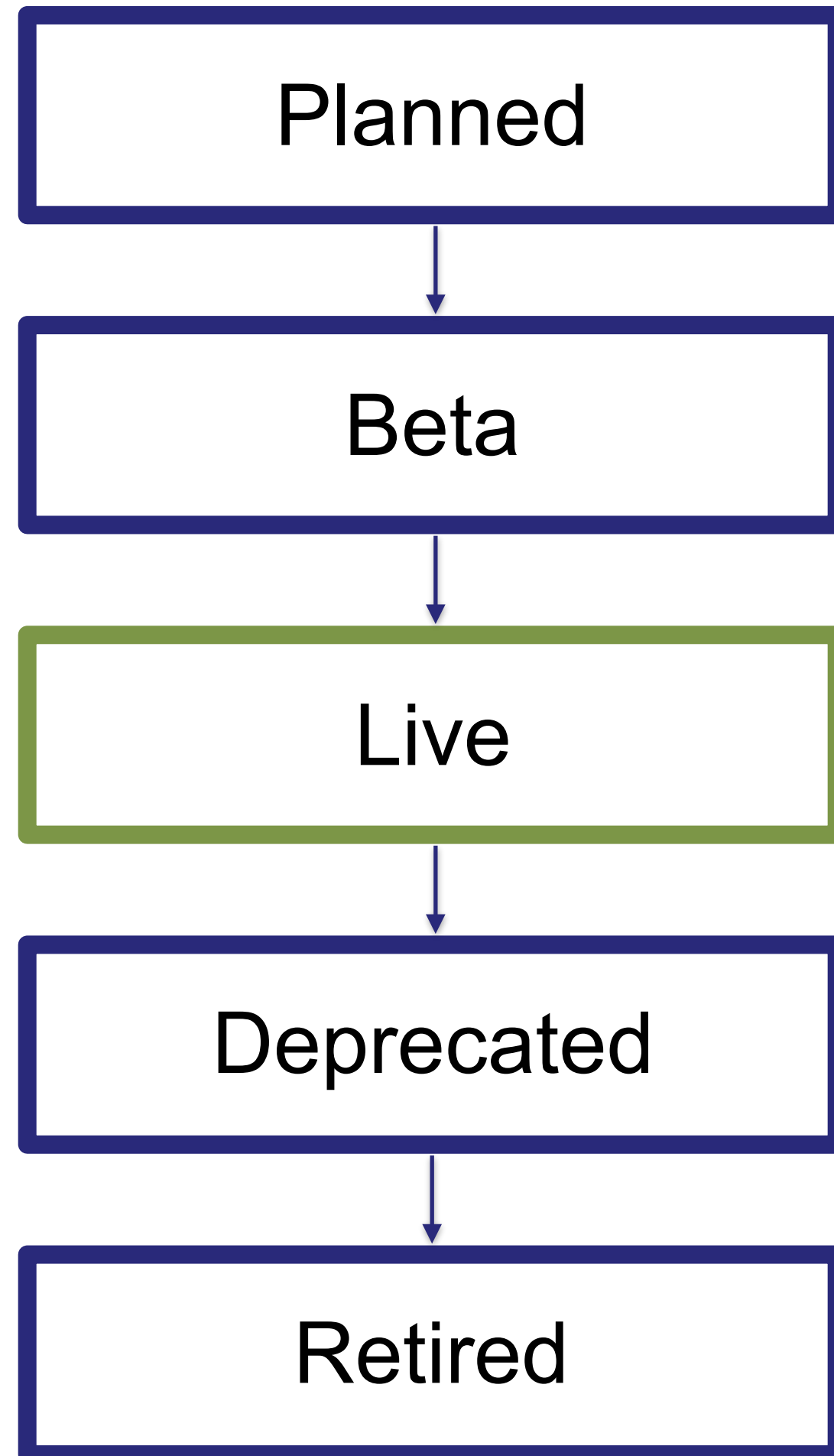
Agenda

- No Versioning
- Introduction to API Lifecycle
- Comparing OpenAPI Specifications
- API Versioning and Specification with API management

Without Versioning



API Lifecycle



Minor Release

- Backwards compatible
- Customer does nothing
- Changes additive and optional
- Semantics don't change

Major Release

- Can break compatibility
- Must have a migration plan
- Runs with deprecated API

<https://github.com/paypal/api-standards>

Comparing Open API Specifications

- API Specifications accurately reflect the current version of an API
- When upgrading versions API Specifications can be compared
- **swagger-diff** helps identify breaking changes vs minor upgrades
- Can be integrated as part of an API Delivery Pipeline

Versioning with API Management

- Extending APIs to partners requires a defined format
- API Management systems rely on Open API Specifications to reverse proxy
- It is possible to perform validation of API requests based on the specification
- New versions of an API can be deployed via the use of DevOps