Open@Epic CONFERENCE

Configure This Out Together

Presenters



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Showroom TS

Epic



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OHSU

Oregon Health & Science University (OHSU) at a Glance



Portland, Oregon • Academic Medical Center • Specialty & Complex Care

700+
Licensed Beds
Across 3 Hospitals

60K+
Trauma &
Emergency Cases

200+
Clinic Locations

$580 M+
Research Funding

1.2 M+
Ambulatory Visits Yearly

65 Live
23 Implementing
Web Service Applications

STATEWIDE ROLE

- Oregon's only academic medical center.
- Supports statewide bed-capacity management.
- A major destination for complex and underserved care.
- Specialty and surgical care among our largest service lines.
- One of two Trauma 1 facilities in the state of Oregon

OHSU

$2.7B
Knight family giving since 2008

Cancer care is a rapidly expanding strategic focus
Includes a $2B gift announced in August 2025 — the largest single donation to a U.S. university or academic health center.

Healthcare's Perfect Storm

More demands. Fewer resources. An accelerating need for interoperability



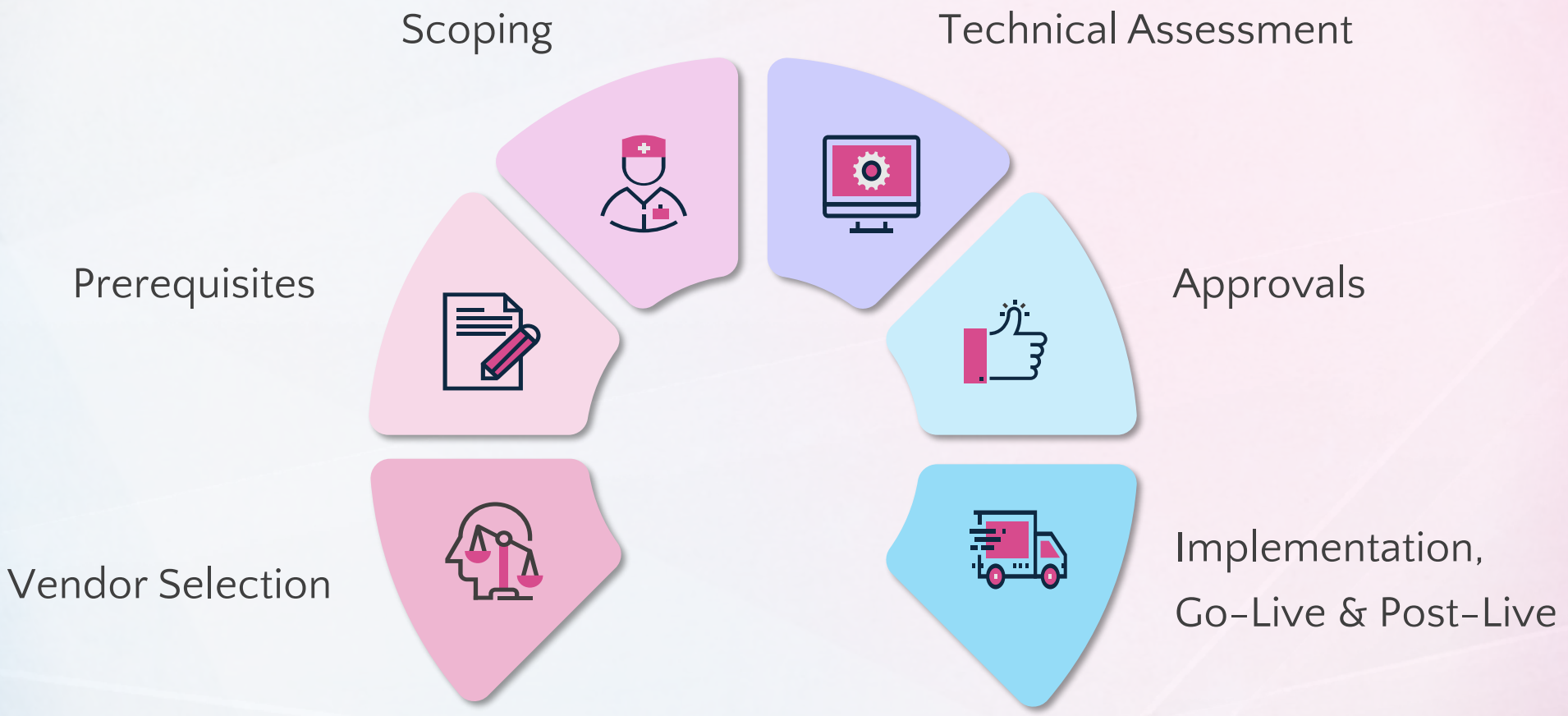
Learning Objective

1. What should you provide to a Healthcare organization to help implement your app, easier, quicker, and with less resources

The App Integration Lifecycle

OEC19

Navigating App Governance



Life without an Implementation Packet



- × Cannot Submit documents for governance review
- × Require follow up meetings and emails
- × Cannot find organization-specific needs or uniqueness
- × Unable to look ahead for future roadblocks

This causes delays, headaches, and increases the time, difficulty and cost of an implementation

Life with an Implementation Packet

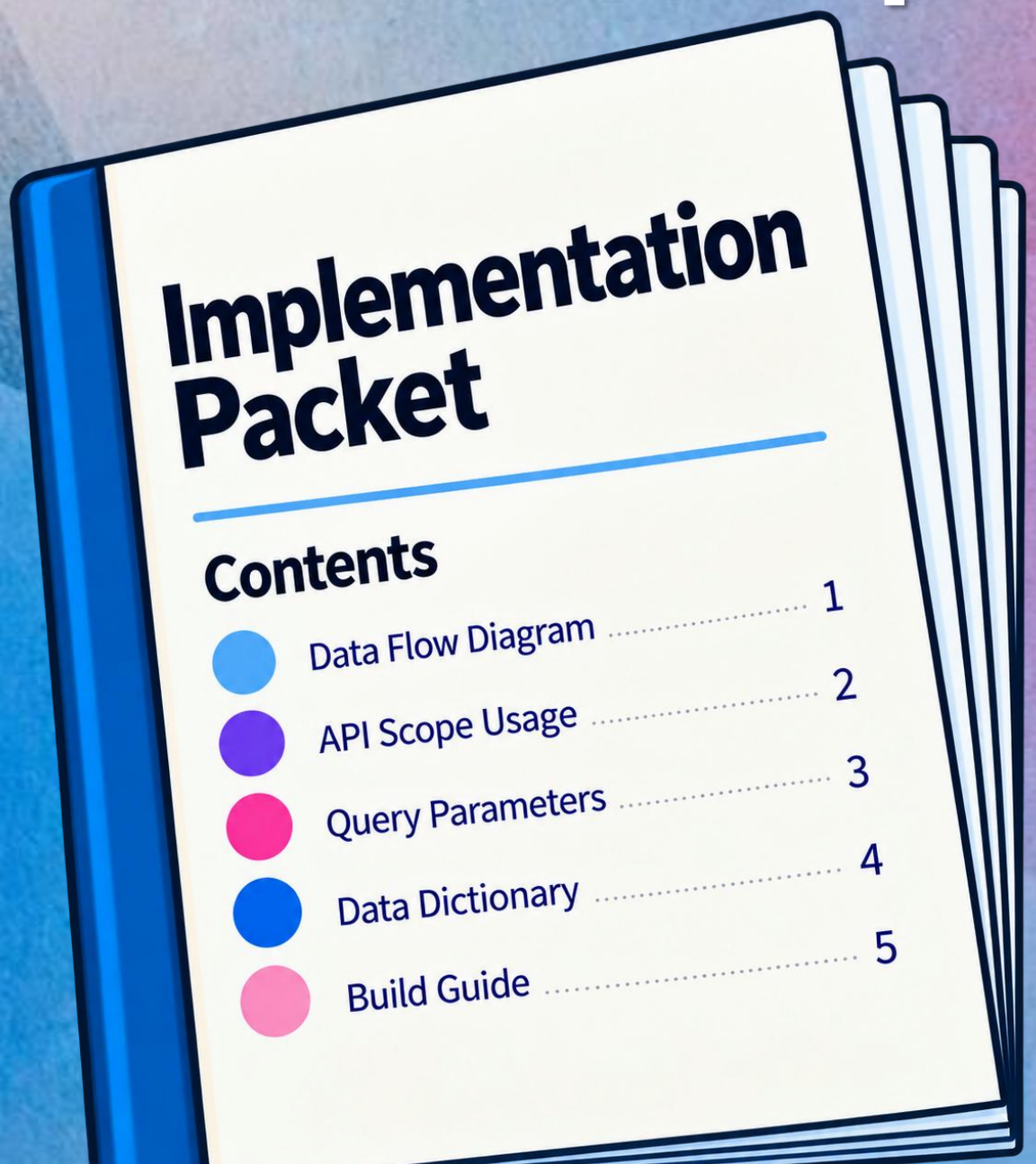


Able to:

- ✓ Submit documents for governance review
- ✓ Identify organization-specific requirements
- ✓ Identify potential missing build
- ✓ Reduce back and forth meetings and emails

What to include in an Implementation Packet

What is an Implementation Packet?



Helps with:

- ✓ Scoping
- ✓ User Satisfaction
- ✓ System Performance
- ✓ Easier Implementation
- ✓ Troubleshooting

Data Flow Diagram

Understand how users, workflows, and systems interact.

Data Exchange Workflow

Outline who, what, and when

Actions → API Queries

What happens when I do this?

Technical Infrastructure

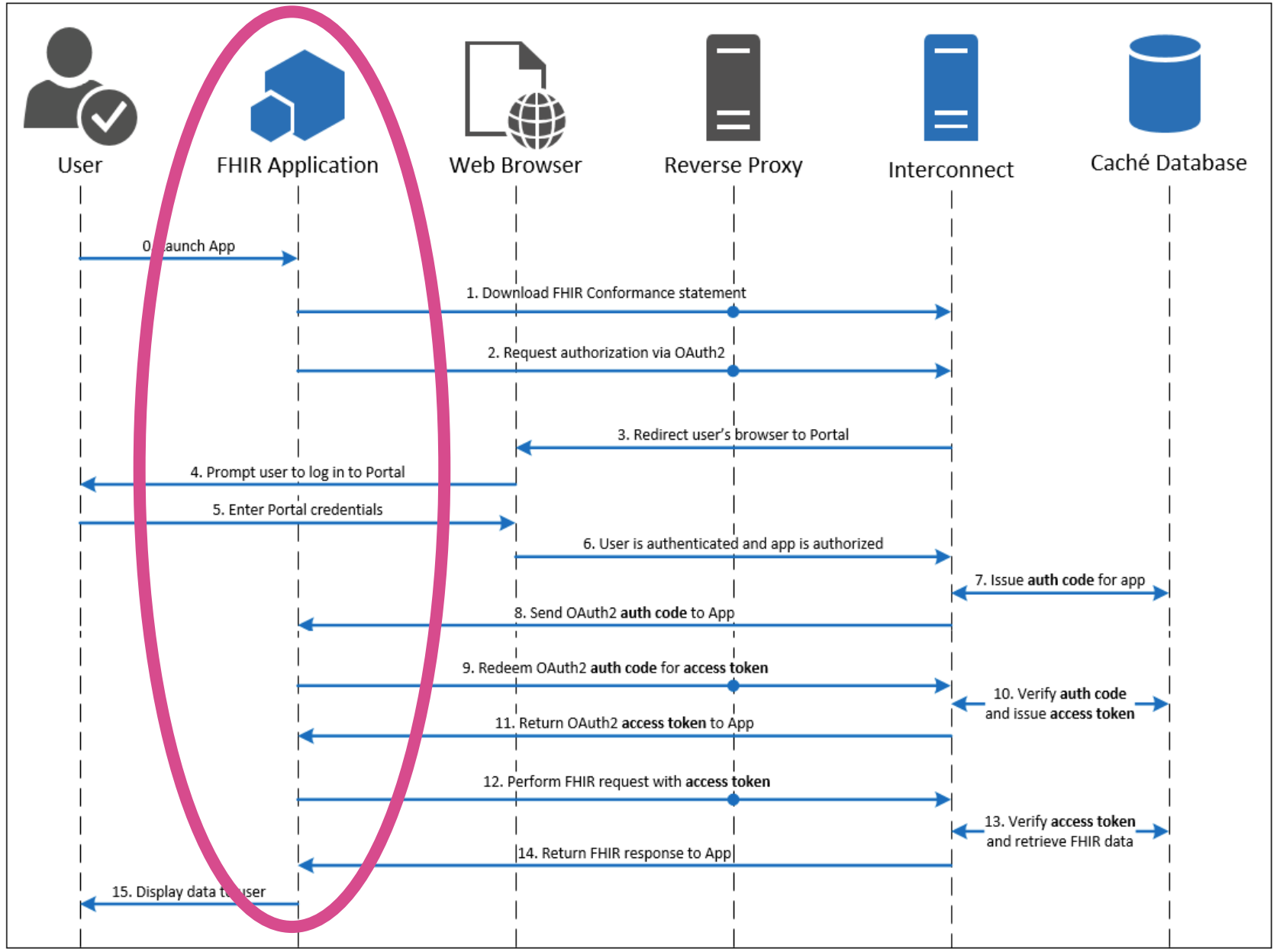
We need to know the nuts and bolts



Data Flow Diagram

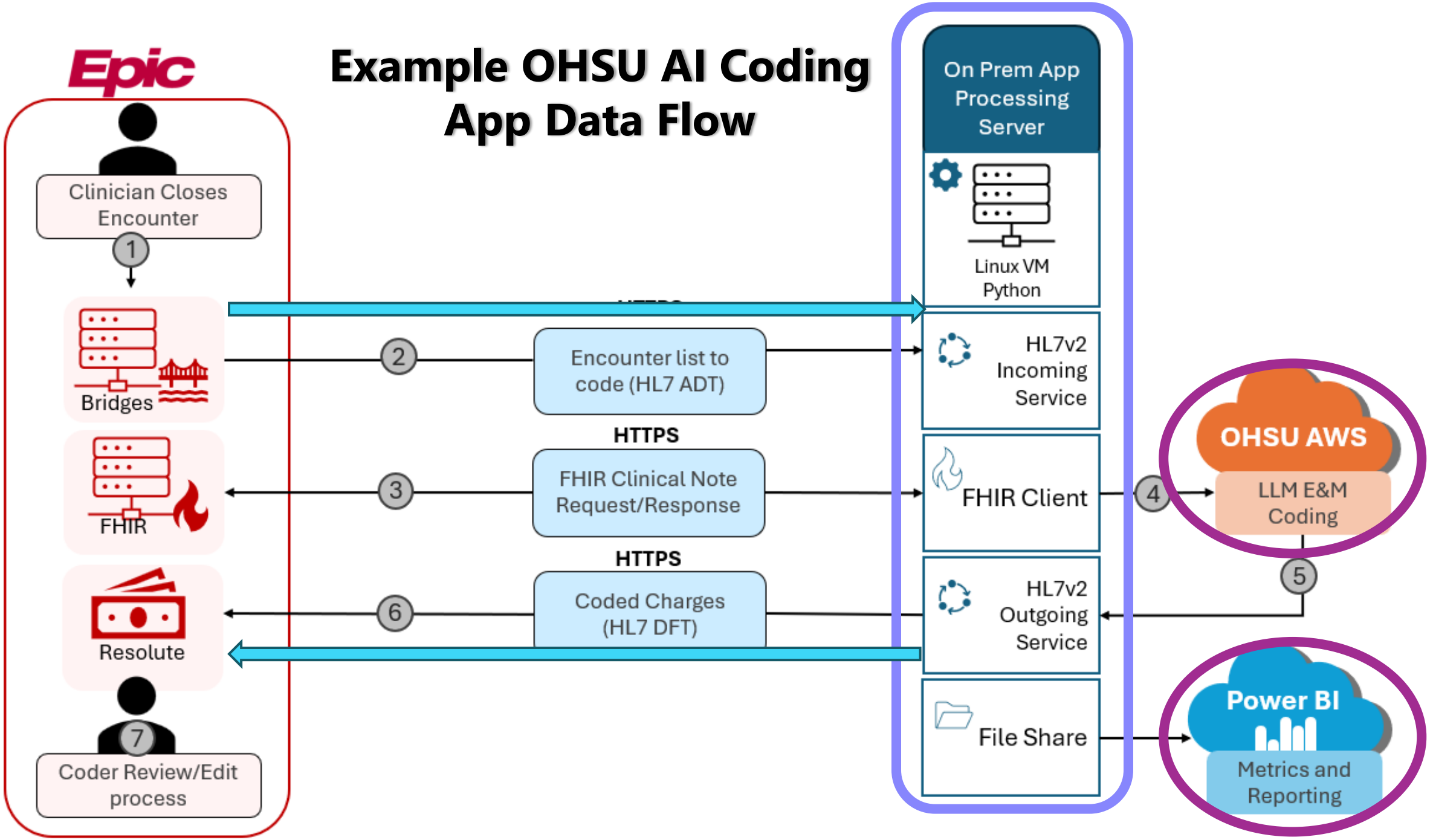
What this looks like…

- ✓ Happy Path
- ✓ Potential Failure Points
- ✓ Vulnerabilities
- ✓ Additional Systems



Smart on FHIR standalone launch interactions

Example OHSU AI Coding App Data Flow



API Scope Usage

Define what data is needed and why

Client ID Scope

Account for all scoped APIs

Use Case

Core requests vs event vs use case driven

Data Utilization

Application-specific business value

Encounter.Search

Patient Chart

✓ Always Used

Use case • All Prior Auths

Scope • All Customers

DATA USAGE

Encounter details for the ordering encounter and other relevant encounters used for prior-authorization justification.

MedicationRequest.Read

Order Template Medication

⚠ Conditionally Used

Use case • Oncology Prior Auths

Scope • Infusions & Oncology

DATA USAGE

Pulls medication orders that are part of a proposed infusion treatment plan for oncology or infusion medication authorization.

DocumentReference.Create

Clinical Notes

✕ Not Used for this Implementation

Use case • Customer Request

Scope • Customer Request

DATA USAGE

Create a note in an encounter of the organization's choice—e.g. prior auth status written to a prior auth encounter

Query Parameters

Understand request patterns and system impact

Request: All lab results

Query: /Observation?category=laboratory

Returns: 1,683 Results



Request: All CBC results

Query: /Observation?category=laboratory&{{LOINC Codes for CBC}}

Returns: 317 Results

Request: CBC results since 1/1/2026

Query:/Observation?category=laboratory&{{LOINC Codes for CBC}}&date=ge2026-01-01

Returns: 73 Results

Request: Last 5 CBC Results

Query: /Observation?category=laboratory&{{LOINC Codes for CBC}}&_count=5

Returns: 15 Results

Query Parameters

What this looks like…

- ✓ All APIs in published scope
- ✓ Exact query string used
- ✓ Readable description of query parameters

MedicationRequest.Search

Signed Orders

QUERY PARAMETERS

```
/api/FHIR/R4/MedicationRequest?status=active,on-hold,completed,stopped&category=inpatient,outpatient&patient={{patientFHIRID}}
```

Query Description Inpatient and outpatient medication orders with an active, on-hold, completed, or stopped status.

Observation.Search

Vital Signs

QUERY PARAMETERS

```
/api/FHIR/R4/Observation?category=vital-signs&date=ge{{admission date}}&_count=100&patient={{patientFHIRID}}
```

Query Description Vital signs since admission, with the request limited to 100 results.

Condition.Search

Encounter Diagnosis

QUERY PARAMETERS

```
/api/FHIR/R4/Condition?patient={{patientFHIRID}}&encounter={{encounterFHIRID}}&category=encounter-diagnosis
```

Query Description Encounter diagnoses for the specified patient and encounter.

DiagnosticReport.Search

Results

QUERY PARAMETERS

```
/api/FHIR/R4/DiagnosticReport?category=pathology&date=ge{{admission date}}&code={{LOINC Code(s)}}&patient={{patientFHIRID}}
```

Query Description Pathology results matching the specified LOINC code(s), resulted since the patient's admission date.

Data Dictionary

Important Reminder!

Your application should account for variations in organizational mapping and documentation practices.



Human Papillomavirus (HPV)

18 LOINC Codes Defined



HPV Tests

5 LOINC Codes Used



HPV Tests

Account for all Possible LOINC Codes



HPV Tests

8 LOINC Codes Used

Different from OHSU

HL7v2 vs. FHIR

Data Standardization Defined By...

ONC USCDI

HL7 US Core Implementation Guide

Data Dictionary

What this looks like...

- ✓ Required Data Elements
- ✓ Applicable Vocabulary Standard(s)
- ✓ API Used

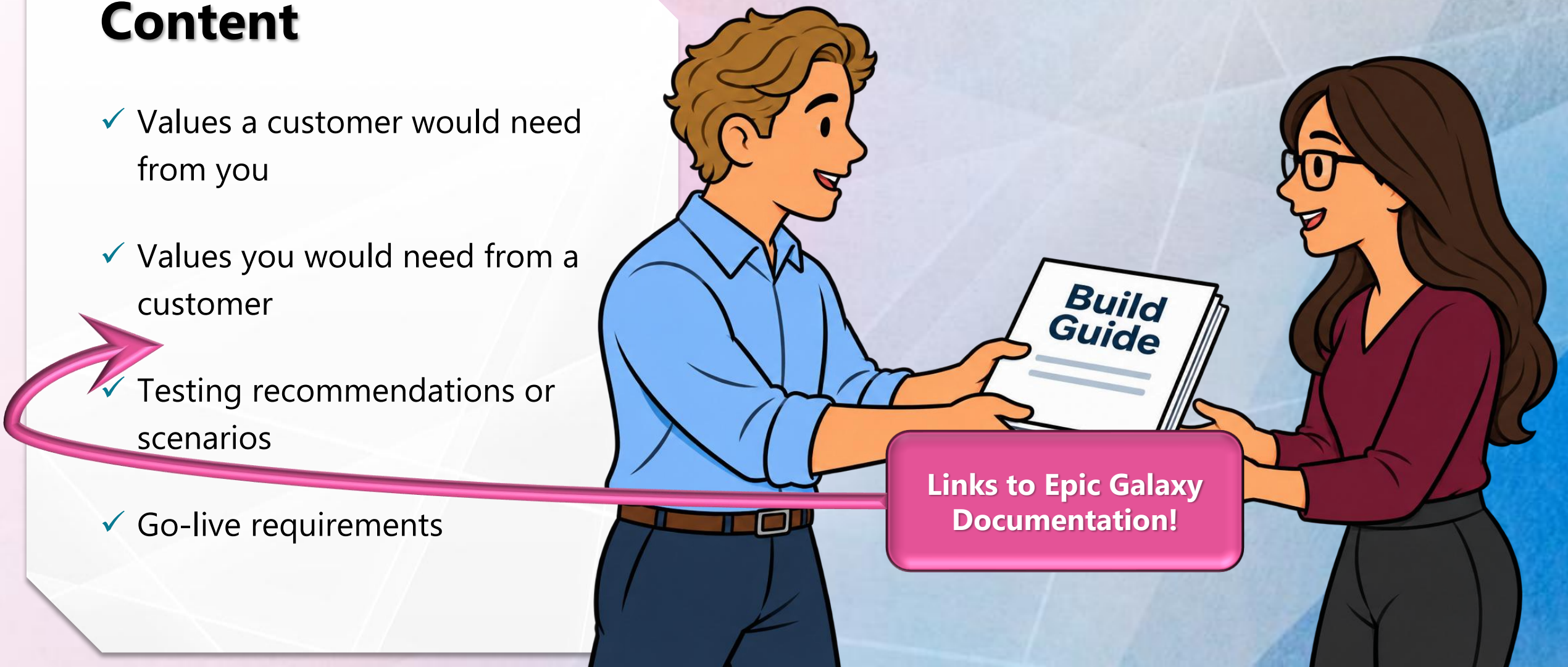
DATA ELEMENT	SYSTEM	CODE(S)	EXPECTED DATA / DESCRIPTION	UNITS	API(S) USED
PHQ-9 total score	LOINC	44261-6	PHQ-9 total score [Reported]	score	QuestionnaireResponse (Patient-Entered) Observation (Assessments)
Gestational age, fetus	LOINC	18185-9	Gestational age	wk	Observation (Core Characteristics)
Diabetes diagnosis	ICD-10 / SNOMED	E11.621 / 73211009	Type 2 diabetes with foot ulcer / Diabetes mellitus (disorder)	N/A	Condition (Problems, Encounter Diagnosis, Health Concer Reason for Visit)
Albumin in serum / plasma	LOINC	54347-0	Albumin [Moles/volume] in serum or plasma	umol/L	Observation (Labs)
Fluoxetine	RxNorm	313989	Fluoxetine 40 MG oral capsule	MG	MedicationRequest (Signed Orders)
Diastolic blood pressure	LOINC	8462-4	Diastolic blood pressure	mm Hg	Observation (Vitals)
Colonoscopy procedure	LOINC / CPT / SNOMED	18746-8 / 44389 / 73761001	Colonoscopy study / through stoma with biopsy / colonoscopy (procedure)	N/A	Procedure (Surgeries, Surgical History, Patient-Reported History, Orders) ServiceRequest (Orders)

Build Guide

How can we configure this out?

Content

- ✓ Values a customer would need from you
- ✓ Values you would need from a customer
- ✓ Testing recommendations or scenarios
- ✓ Go-live requirements



Build Guide

Available resources

- Use-case specific Galaxy links

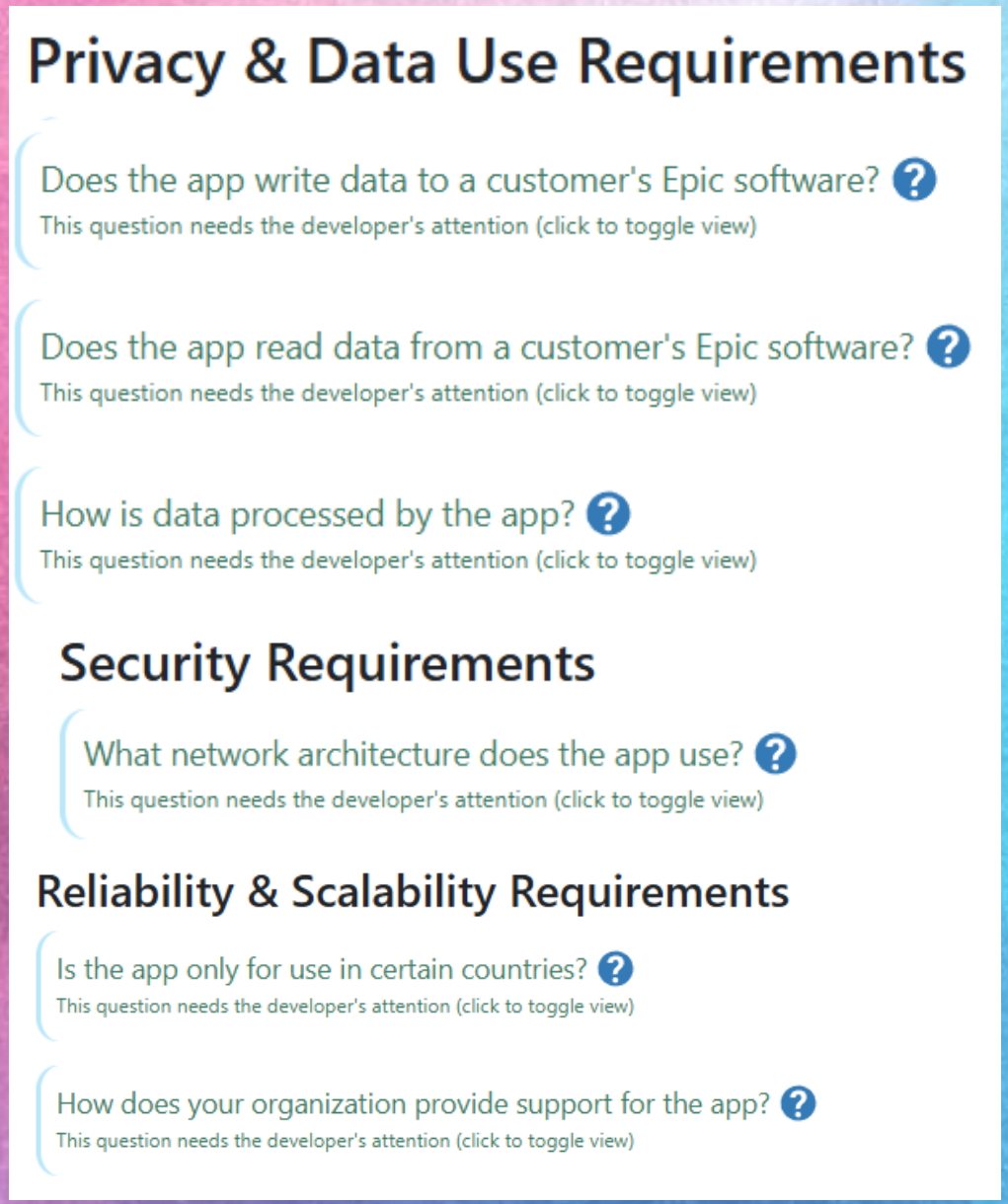
Common Build Resources

Epic customers reference our Galaxy portal for instructions on Epic build. Here is a list of common Galaxy resources that may come up during an implementation. Only Epic customers have access to Galaxy, but you can provide these links in your own implementation materials. Many of the URLs below are included in our generalized Third-Party App Setup and Support Guide or included in support documentation that is linked from that guide.

Galaxy Topic (Customer resources)	Relevant Workflows (App developer resources)	What it covers
• User & Security Setup for Apps	• SMART on FHIR • Backend Apps • CDS Hooks • Bulk FHIR	• Enables users to access your application and/or authorize API calls on their behalf. • For frontend apps, this security is applied to real users (clinicians or patients logging into Epic). • For backend apps, security is configured for a background user.
• Interface Strategy Handbook	• Interfaces	• Outlines the tools Epic uses for configuring and maintaining interfaces.. • Describes Epic's recommendations for the major steps in a successful interface project using those tools.
• Interconnect Setup for Apps	• SMART on FHIR • Backend Apps • CDS Hooks • Bulk FHIR • Interfaces	• Interconnect is the secure data transport framework that supports third-party data exchange through Epic. • Interconnect needs to be configured to allow the types of exchange your app requires. • Customers with many integrations under their belt may have little additional Interconnect setup needed.
• Allow Content for Apps	• SMART on FHIR • Sharing Your App's Web Resources	• Deploying web apps at Epic organizations often involves navigating network security. It's important to precisely document the domains that your web app needs to access so customers can add those domains to their web security allowlists.
• Launch an App from Hyperspace • Launch an App from MyChart • Launching an App from Other Locations (Haiku, Canto, & Rover)	• SMART on FHIR	• Setting up the launch locations and technical configuration needed to launch a web app from Epic.

App Questionnaire

- What is the App Questionnaire?
- Why is it important and valuable for Healthcare Organizations?



Where to Find What You Need

Drop in Discussions
In Sky Lobby

Open.Epic

Epic's home for data sharing and developer tools.

Vendor Services

Sign up for access to Epic support and other optional benefits.

Developer Forum

Developer-to-developer and customer conversations.

Playbooks

Epic's recommended approaches for common integration paths.

Q&A

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