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Getting There Faster:

Interoperability tools to gather clinical requirements and produce developer specifications

Tanya Achilles and Sam Tse

Canada Health Infoway

Tuesday June 2nd, 2015

11:30 – 12:00 pm

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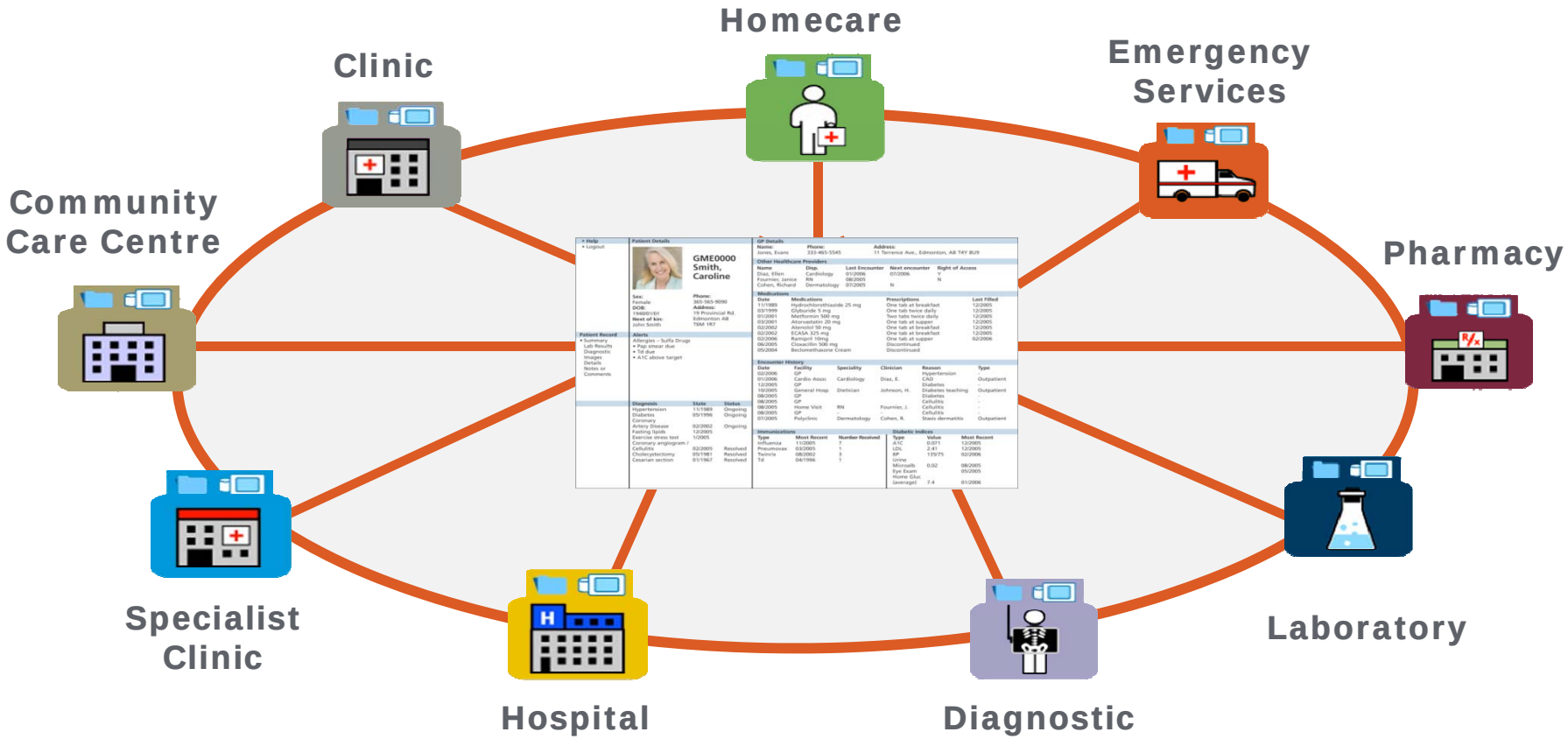

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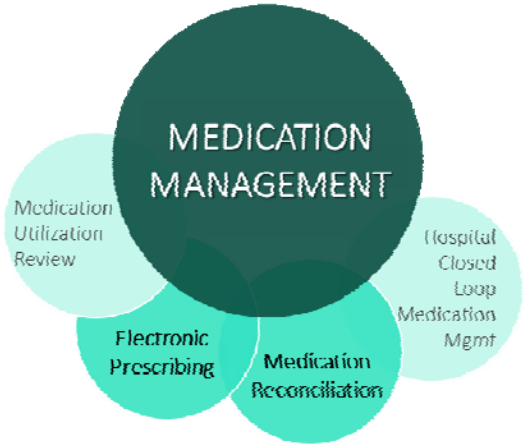
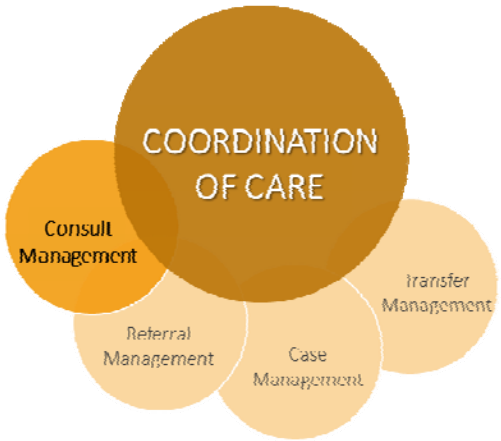
CLINICAL PRIORITIES





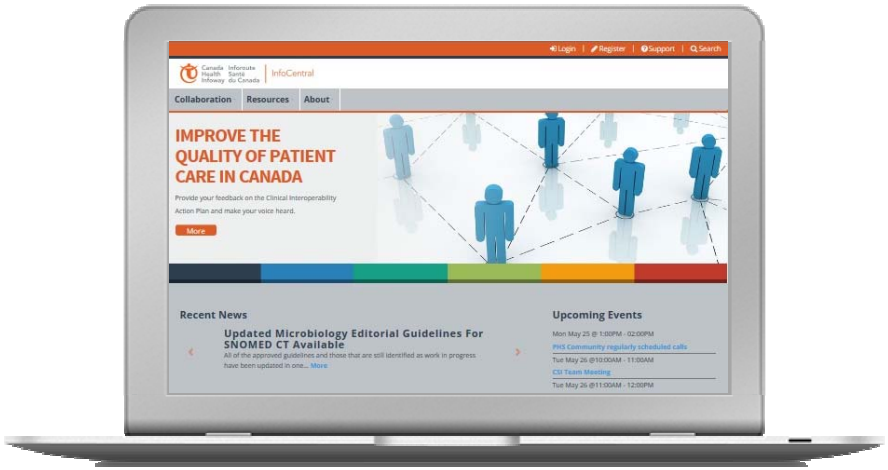
THE CLINICAL INTEROPERABILITY ACTION PLAN

1. **Mobilize** – Engagement with and outreach to Clinicians, Vendors, Health and eHealth organizations to participate in Steering Committee, Communities, Working Groups and Implementation Projects

2. **Collaborate on Aligned Priorities** – Medication Management, Communicable Disease Management, Coordination of Care

3. **Leverage Enablers** – Best Practices, Interoperability Solutions, InfoScribe and InfoCentral

InfoCentral for Collaboration



- Communities
- Working Groups
- Resources

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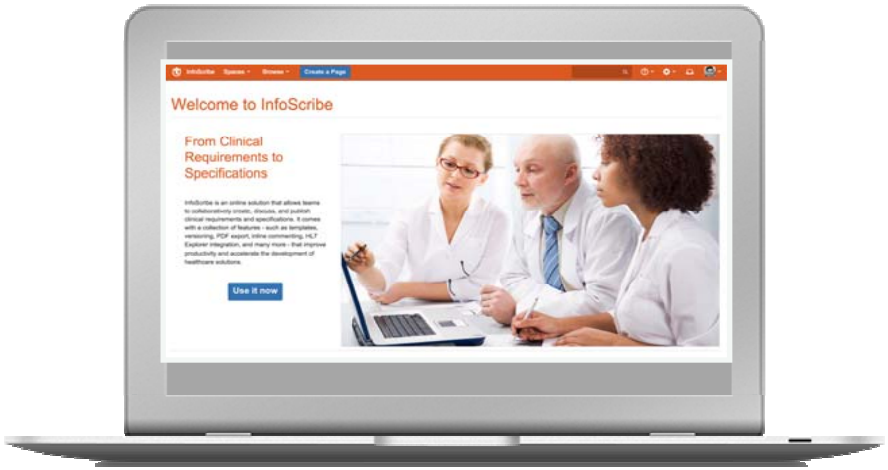
InfoScribe for Documentation

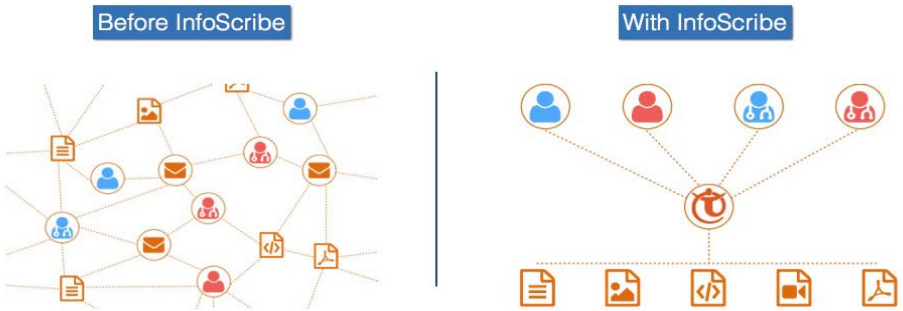


- Clinical Requirements
- Specifications

What is InfoScribe?

- Web-based Authoring and Publishing Solution for Clinical Requirements and Specifications

- Enables collaboration between clinicians, vendors and eHealth programs to rapidly develop effective interoperability solutions



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What do Clinicians Need?

A good user experience.

Access to content with minimal disruption in workflow.

InfoScribe provides Clinicians with…

- Clinical Requirements process that allows them to express their needs in terms of the information they need and the workflow that needs to be supported
- Collaboration to gather lessons learned from other clinicians, vendors and eHealth programs
- Screenshots or mockups to visualize and test their requirements
- Clear traceability between their Clinical Requirements and Specifications

Clinical Requirements

A set of statements in the clinician voice, that describe their needs in relation the information that is required, and the workflow that needs to be supported during a specific clinical data exchange

Clinical requirements guide the creation of a developer specifications

Clinical Requirements Template

CLINICAL CONTEXT

- Scope
- Definition

CLINICAL REQUIREMENTS APPROACH

- Clinicians Expression of Needs
- Mockup

CLINICAL REQUIREMENTS

- Clinical Requirements

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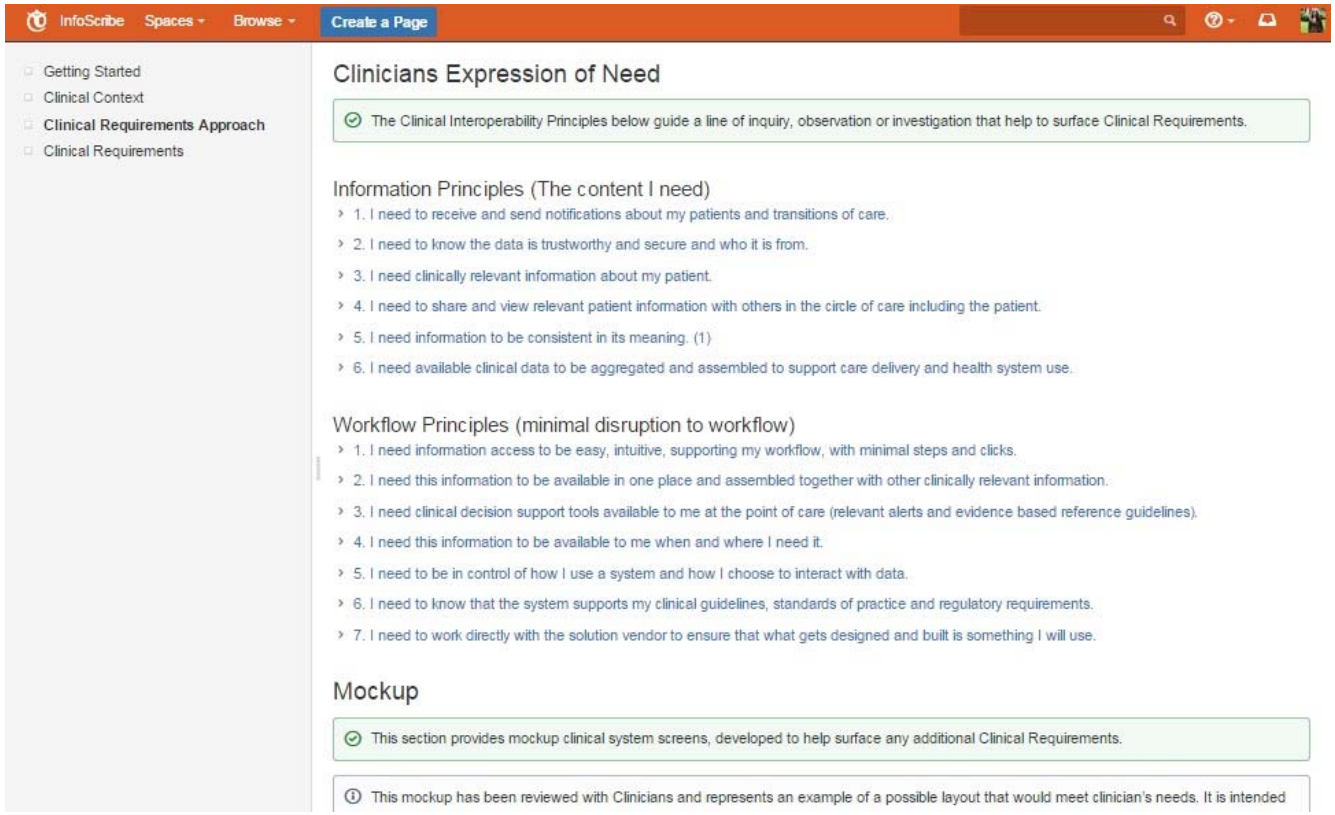
Clinical Requirements Template



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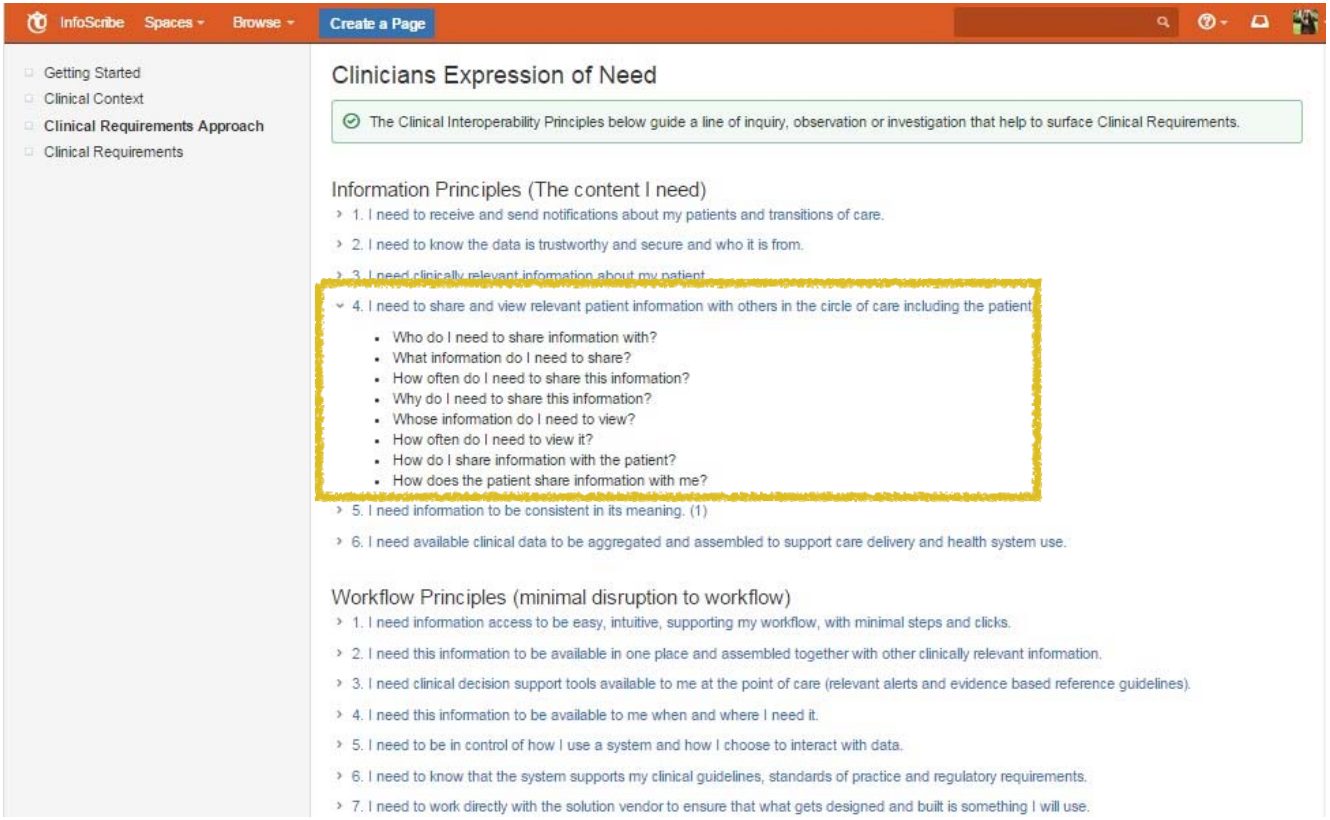
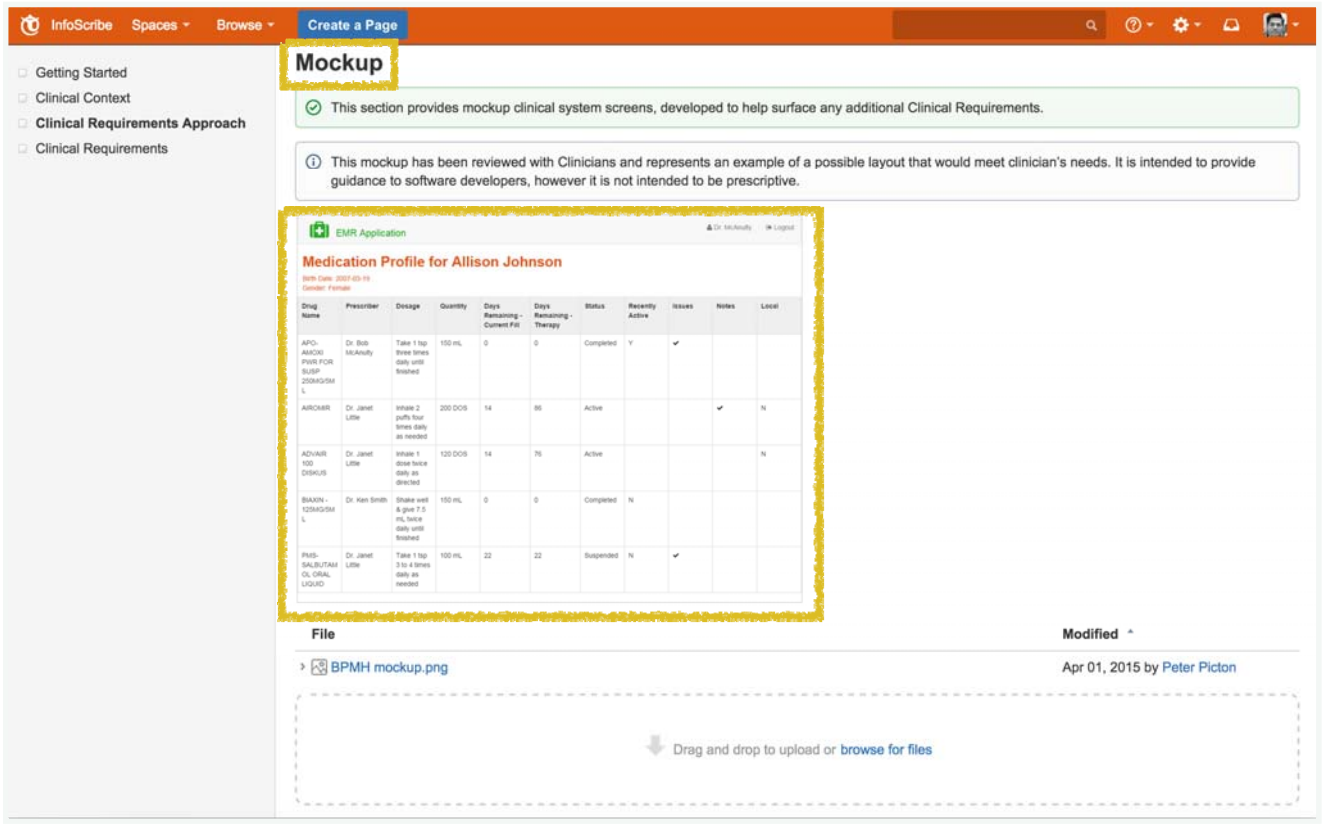
Clinical Requirements - Line of Inquiry



Mockup


InfoScribe
Spaces
Browse
Create a Page
Getting Started
Clinical Context
Clinical Requirements Approach
Clinical Requirements
Mockup
This section provides mockup clinical system screens, developed to help surface any additional Clinical Requirements.
This mockup has been reviewed with Clinicians and represents an example of a possible layout that would meet clinician's needs. It is intended to provide guidance to software developers, however it is not intended to be prescriptive.
EMR Application
Medication Profile for Allison Johnson
File
Modified
BPMH mockup.png
Apr 01, 2015 by Peter Picton
Drag and drop to upload or browse for files

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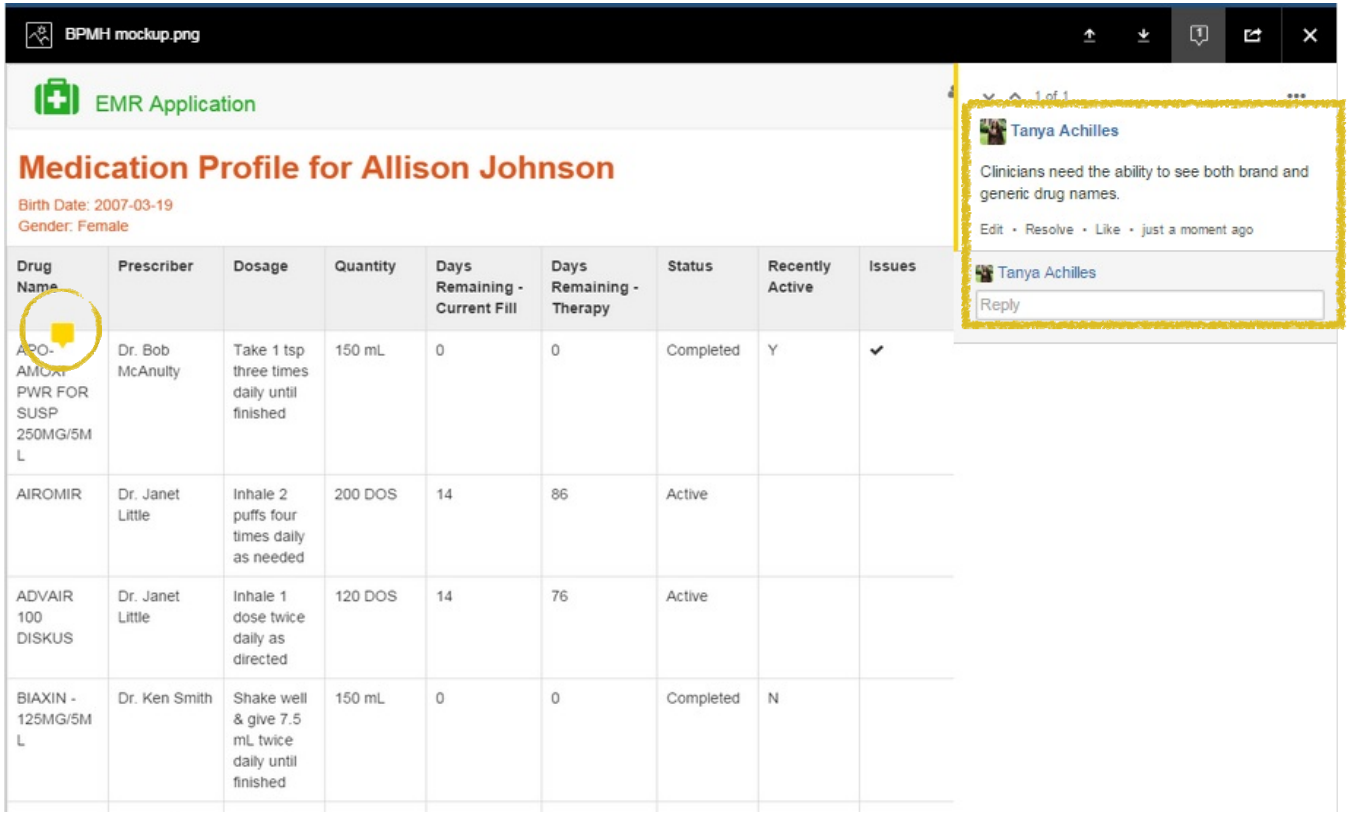
Adding a Comment



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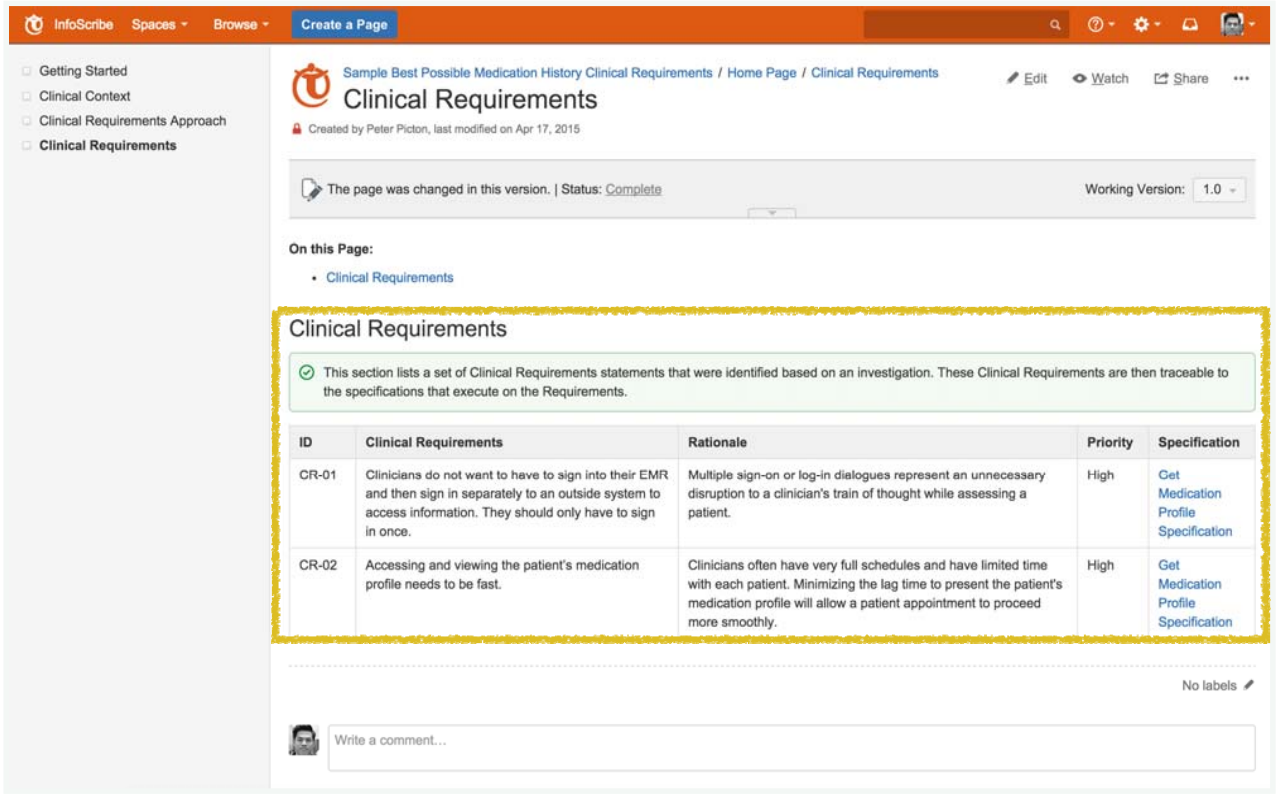
Clinical Requirements – Link to a Specification



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What do Vendors Need?

Clear requirements that meet clinicians' needs.

Reduced complexity and useful tools.

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InfoScribe provides Vendors with…

- Common templates for specifications
- Support for solutions reuse across jurisdictions
- Software libraries and APIs facilitating rapid software development
- Documentation and tools delivered in a way that provides them only the information they need

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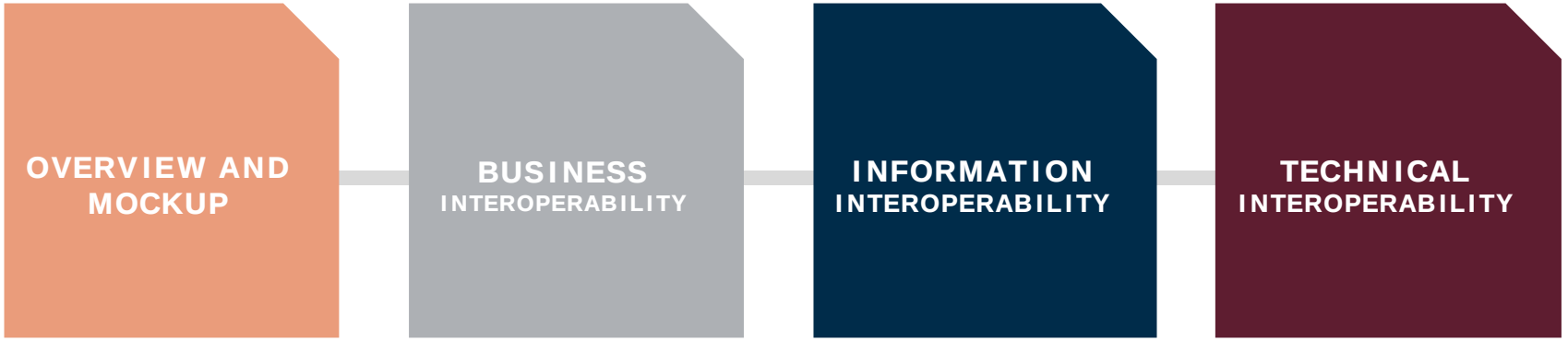
Specification Template



- Overview
- Mockup

- Use Cases
- Business Rules
- Guidance

- Interaction Diagrams
- Standard
- Clinical Information

- API
- Sample Code
- Sample Messages
- Etc…

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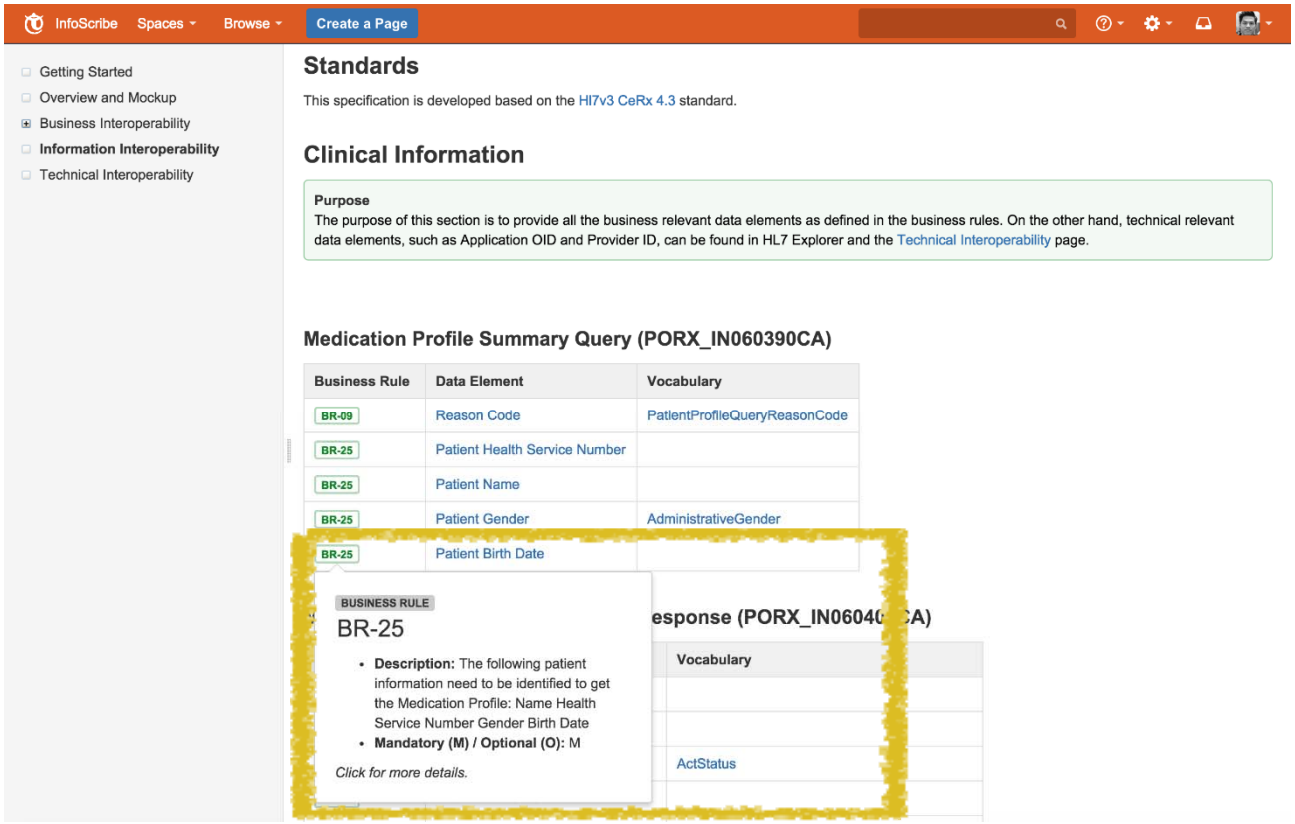
Cohesive Content



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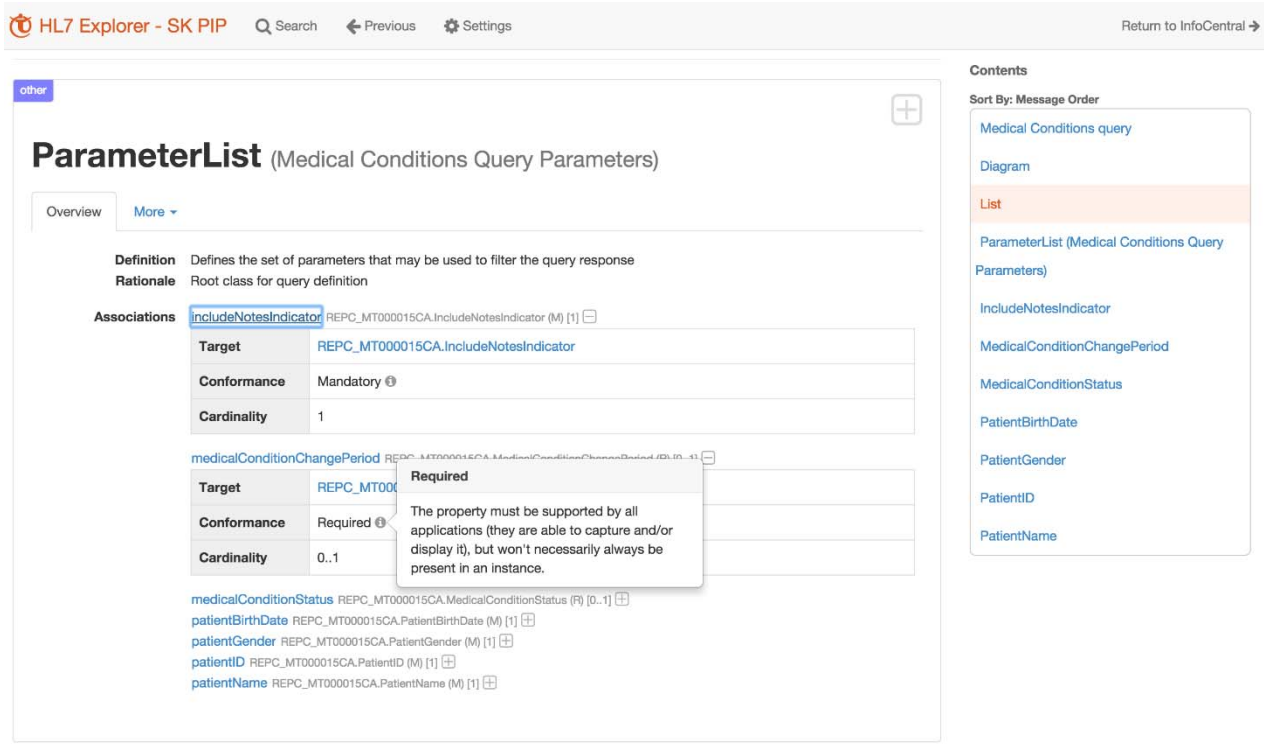
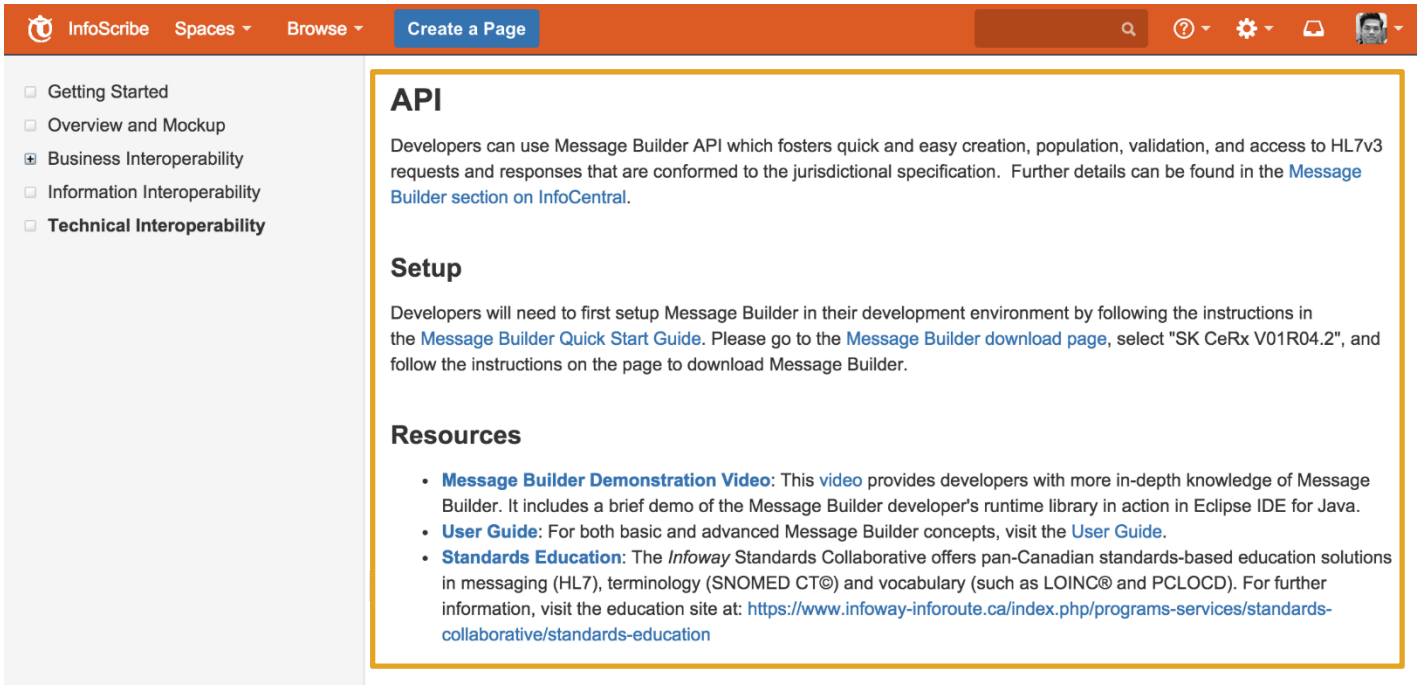
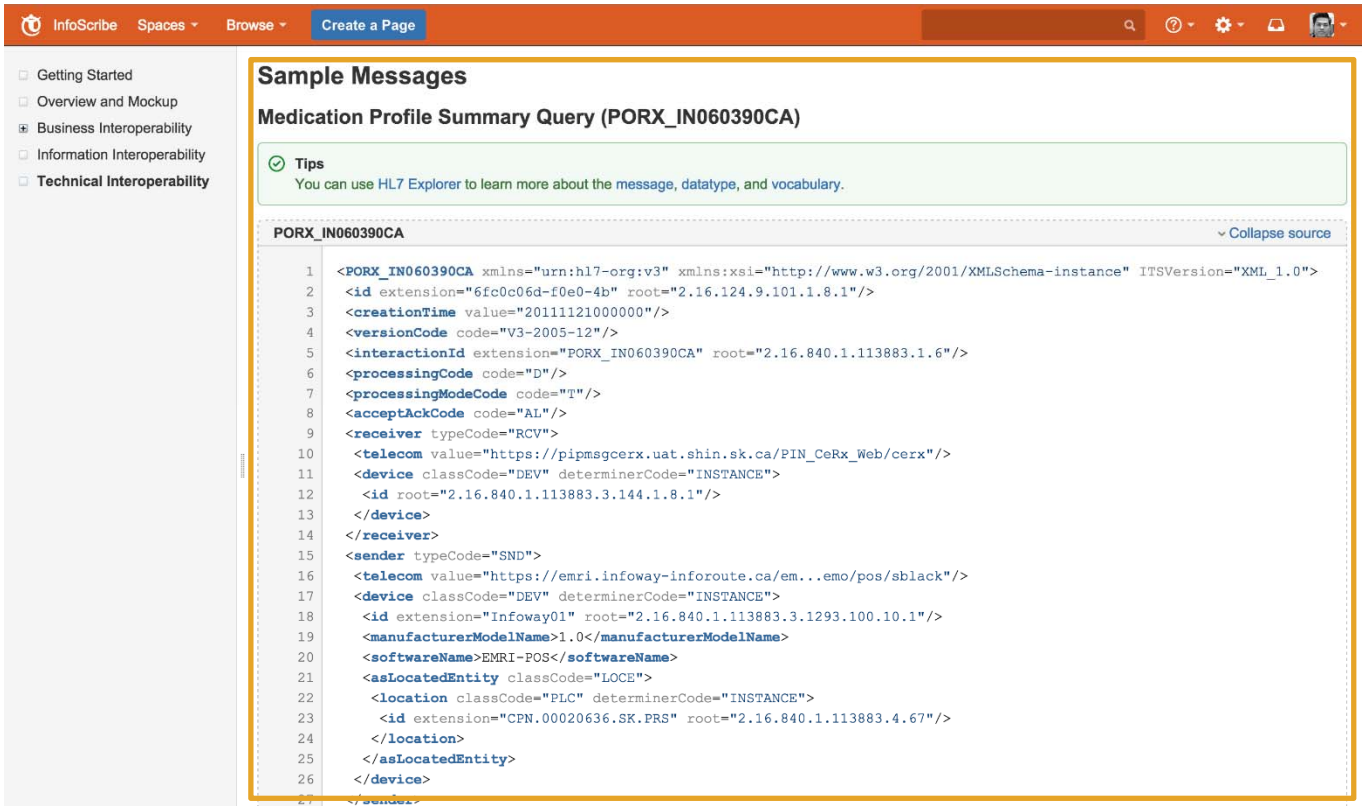
HL7 Explorer



API


InfoScribe
Spaces
Browse
Create a Page
Getting Started
Overview and Mockup
Business Interoperability
Information Interoperability
Technical Interoperability
API
Developers can use Message Builder API which fosters quick and easy creation, population, validation, and access to HL7v3 requests and responses that are conformed to the jurisdictional specification. Further details can be found in the Message Builder section on InfoCentral.
Setup
Developers will need to first setup Message Builder in their development environment by following the instructions in the Message Builder Quick Start Guide. Please go to the Message Builder download page, select "SK CeRx V01R04.2", and follow the instructions on the page to download Message Builder.
Resources
Message Builder Demonstration Video: This video provides developers with more in-depth knowledge of Message Builder. It includes a brief demo of the Message Builder developer's runtime library in action in Eclipse IDE for Java.
User Guide: For both basic and advanced Message Builder concepts, visit the User Guide.
Standards Education: The Infoway Standards Collaborative offers pan-Canadian standards-based education solutions in messaging (HL7), terminology (SNOMED CT©) and vocabulary (such as LOINC® and PCLOCD). For further information, visit the education site at: https://www.infoway-inforoute.ca/index.php/programs-services/standards-collaborative/standards-education

Sample Message



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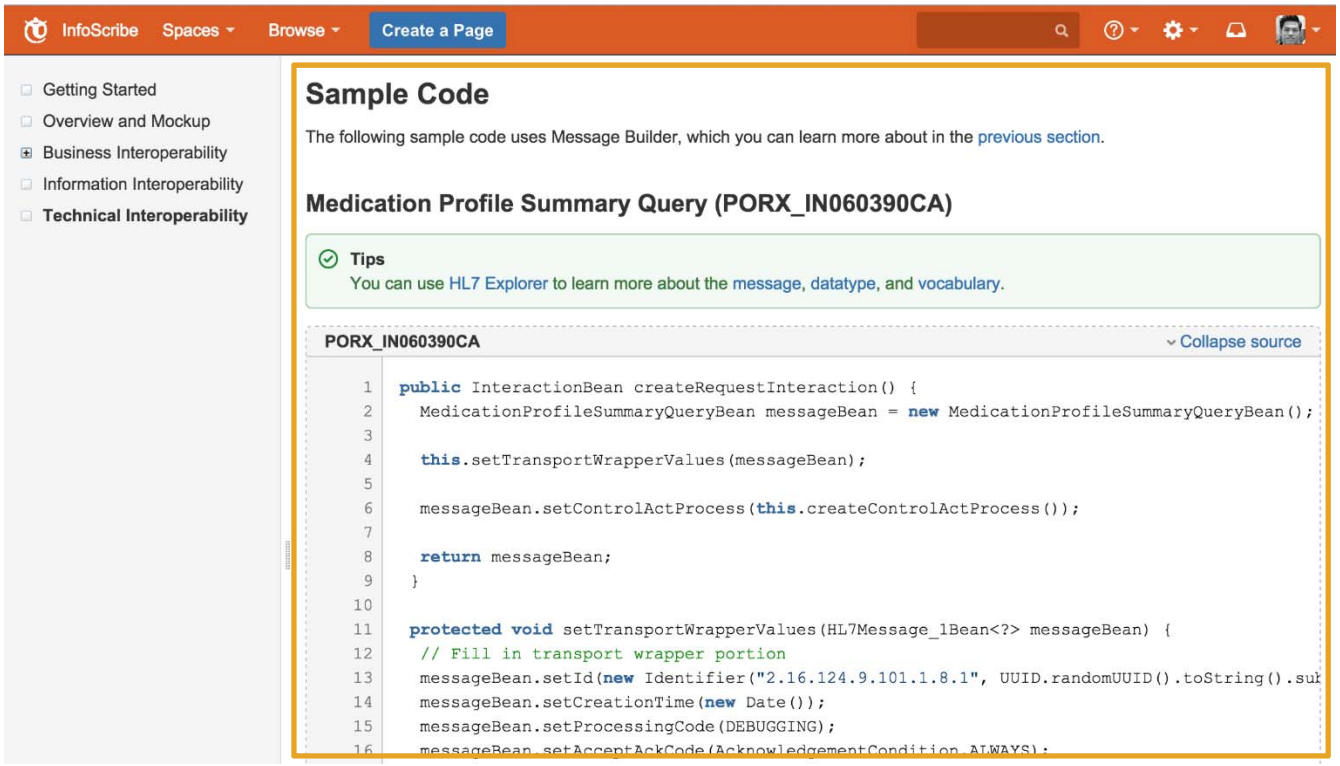
Sample Code



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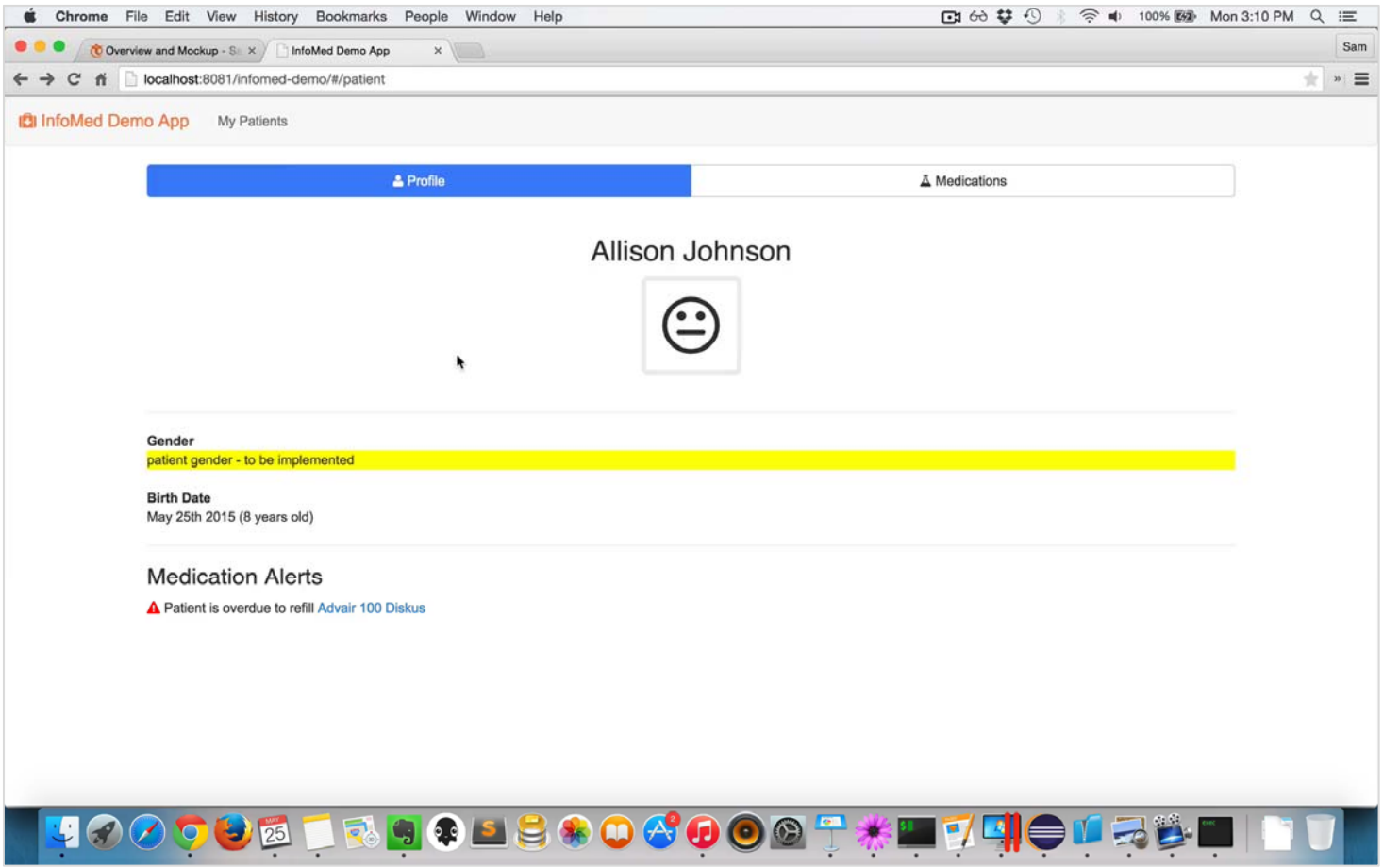

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What do eHealth programs need?

Rapid deployment of solutions that meet clinicians' needs.

Requirements documentation that is easy to author, maintain and evolve.

InfoScribe provides eHealth Programs with…

- Traceability between clinical requirements and specifications
- Clinical requirements and specifications that can be adopted or adapted
- A Clinical Requirements and Specifications Tool that is simple to use and provides powerful collaboration and document management features

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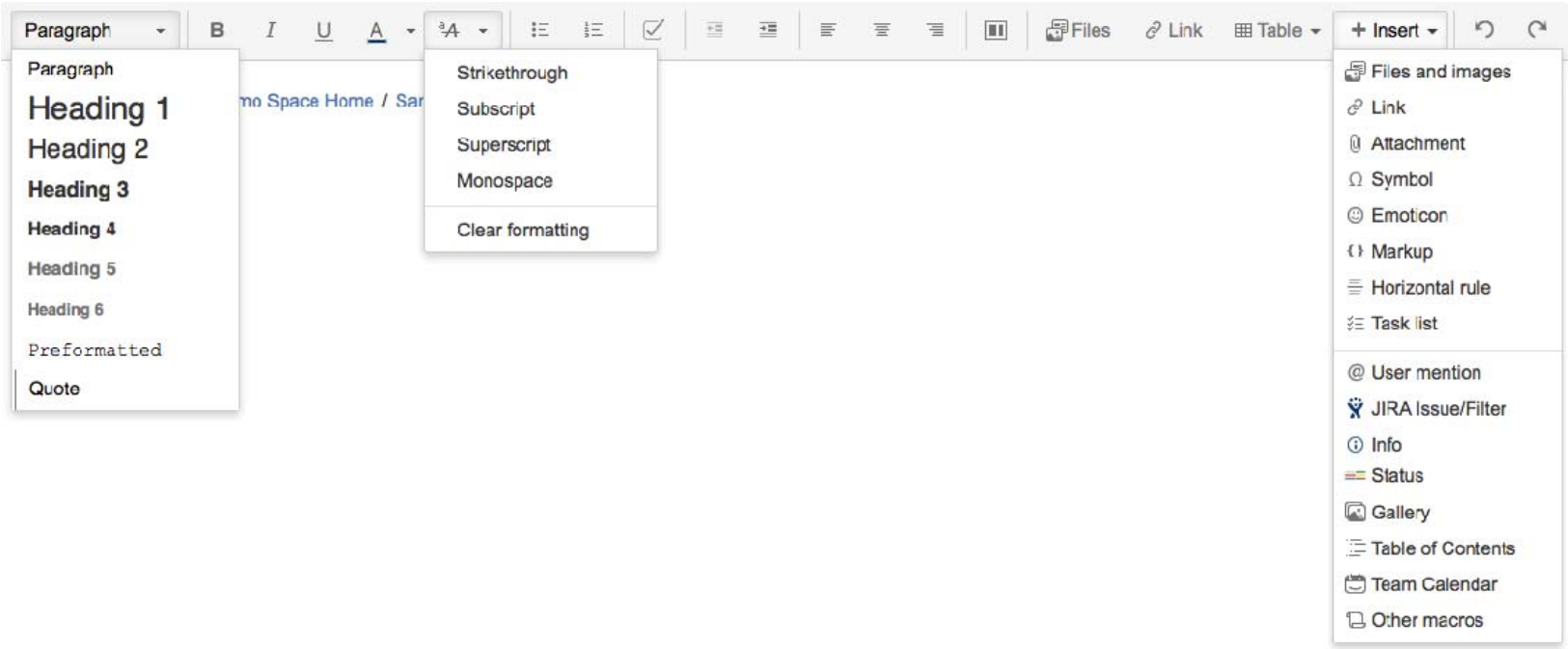
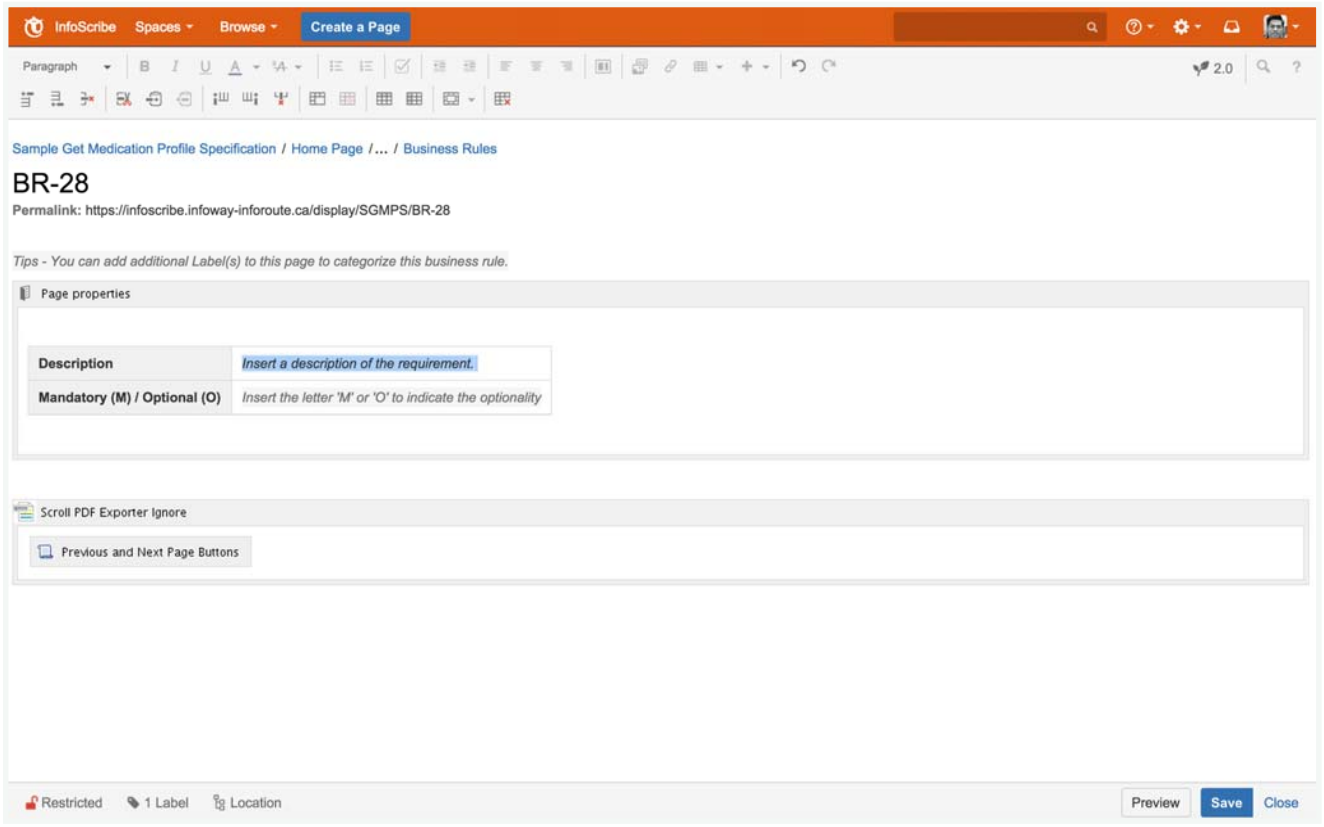
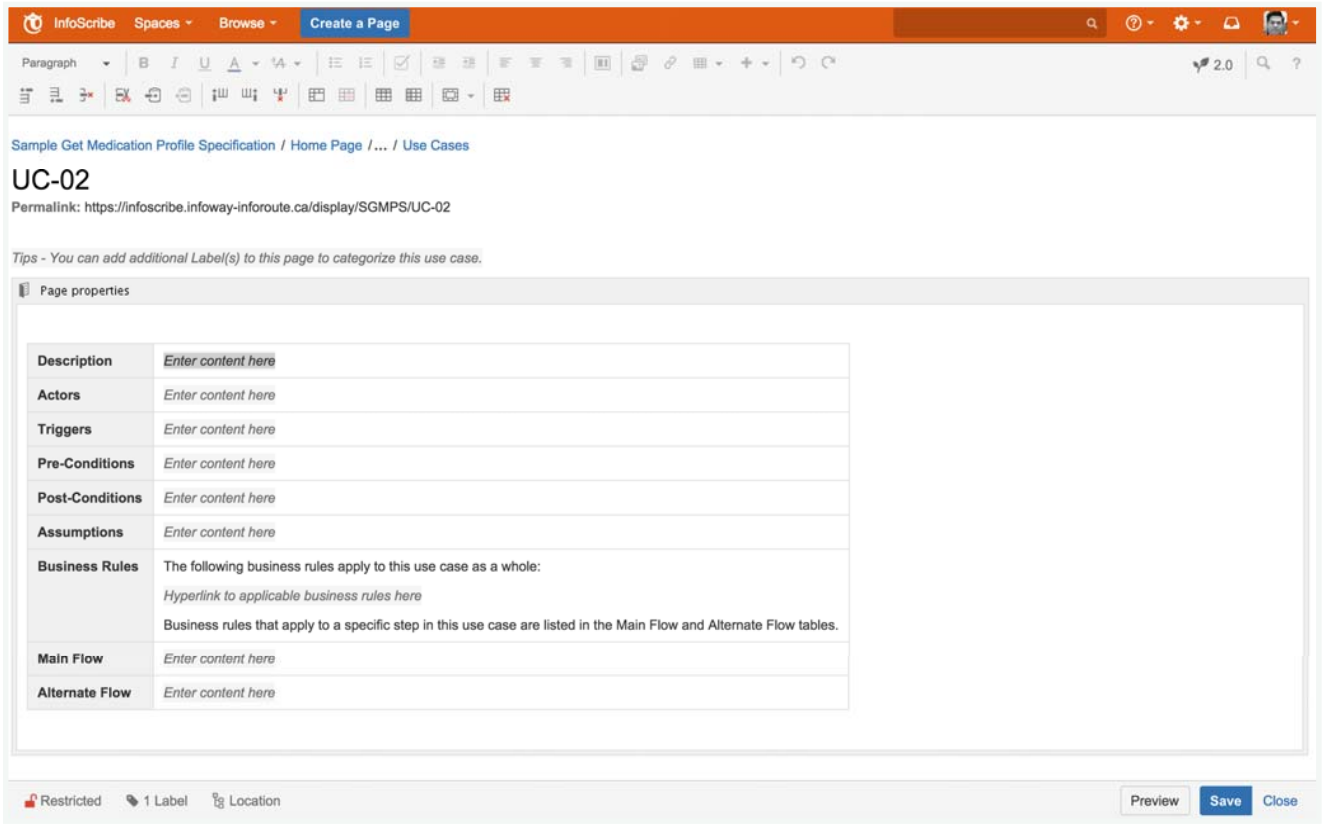
Editing Content



Adding a Business Rule



Adding a Use Case



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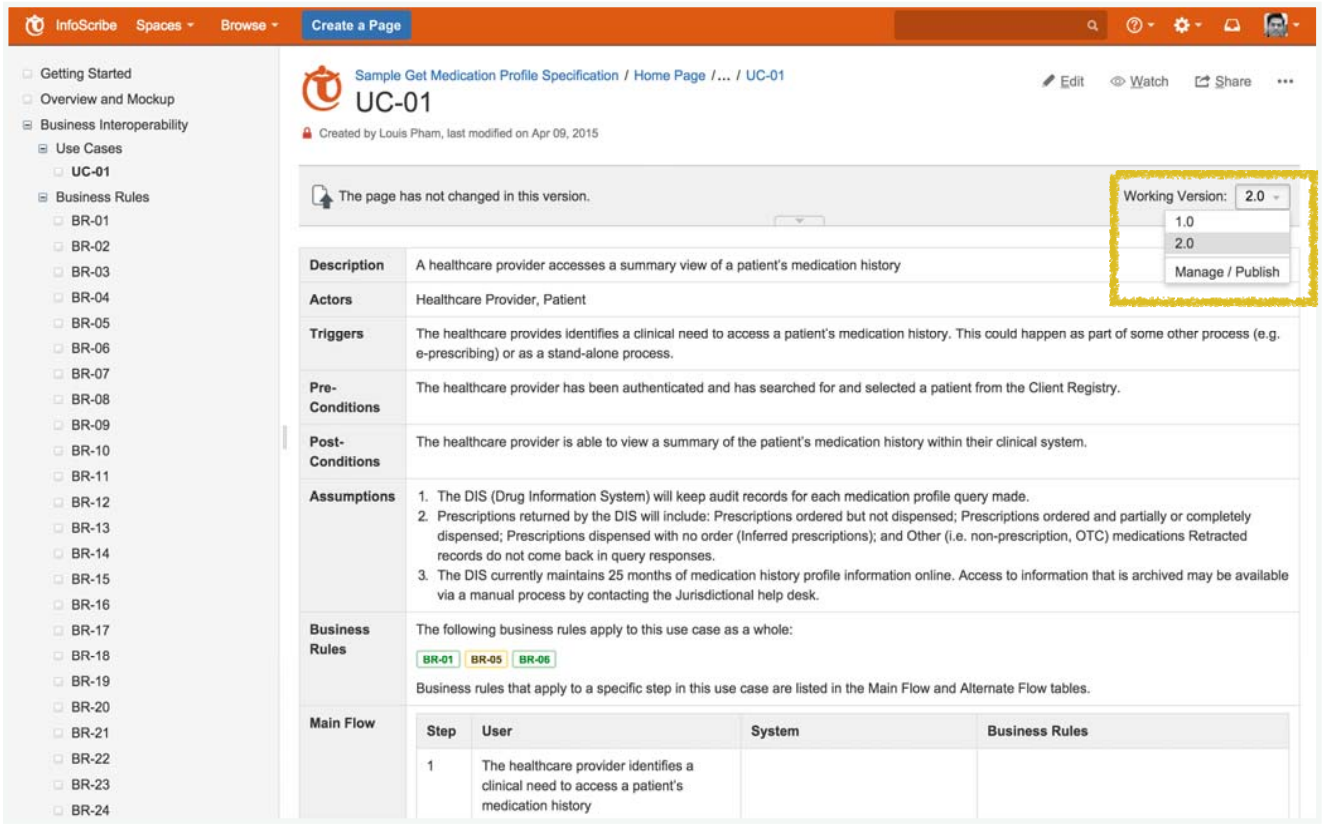
Versioning



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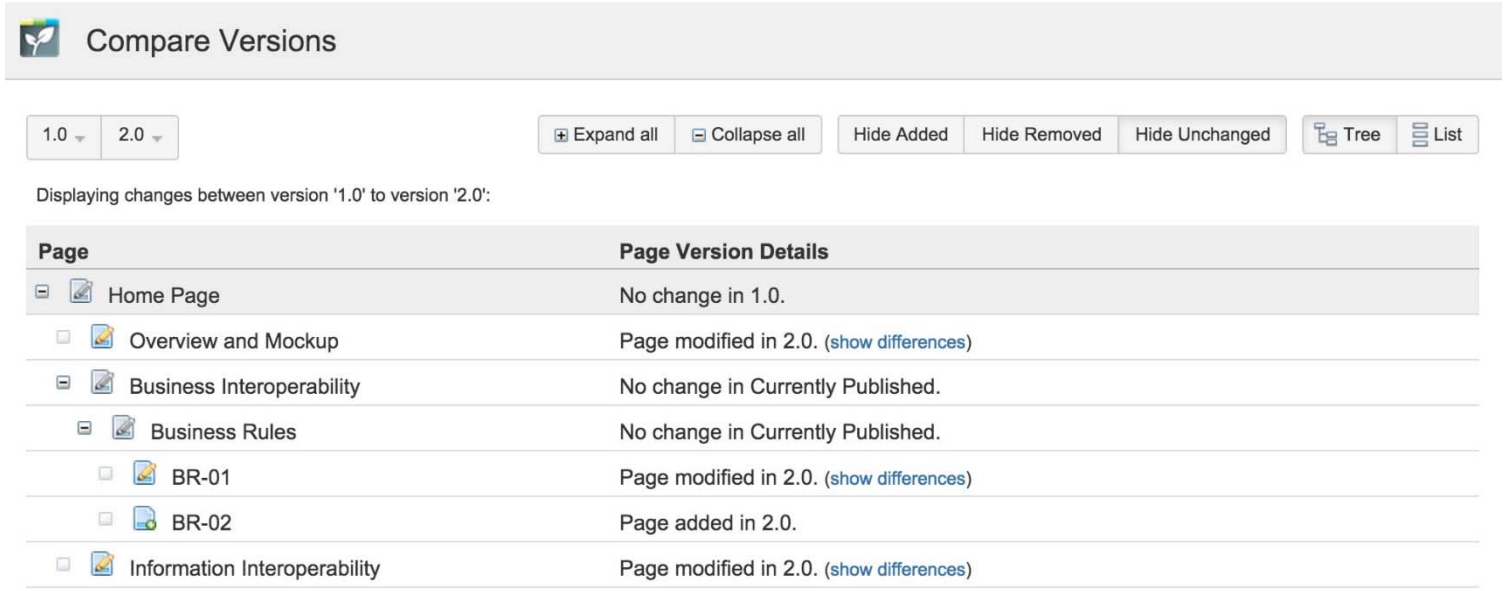
Compare Versions



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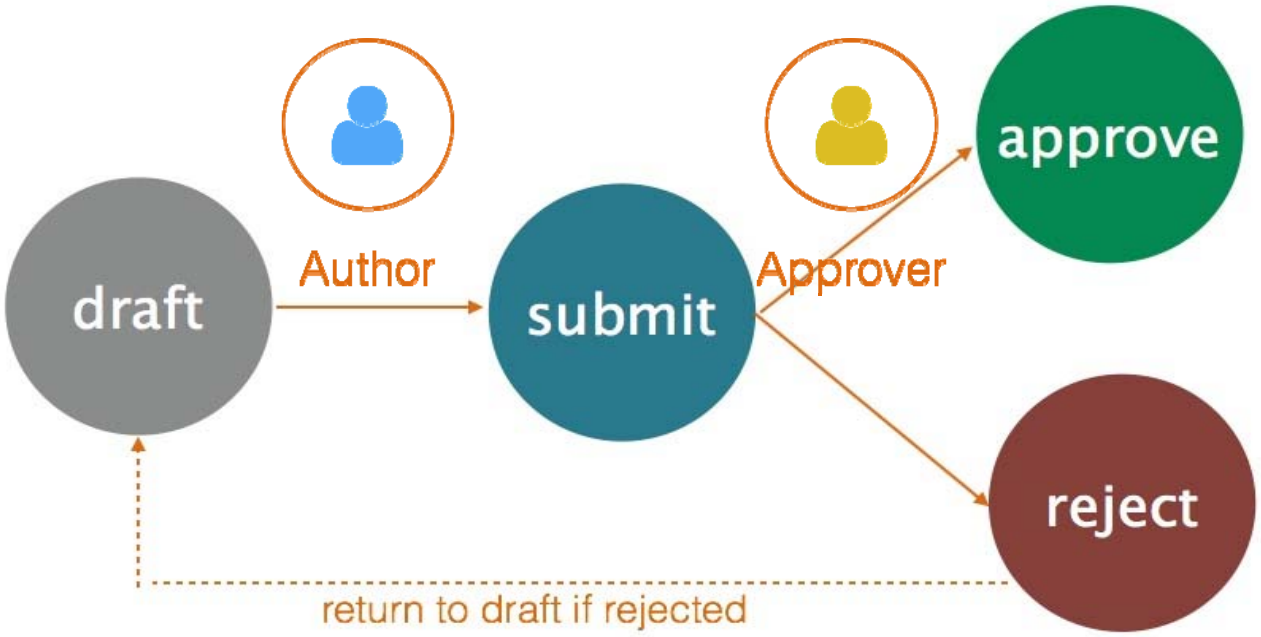
Roles and Permissions

Simple Workflow



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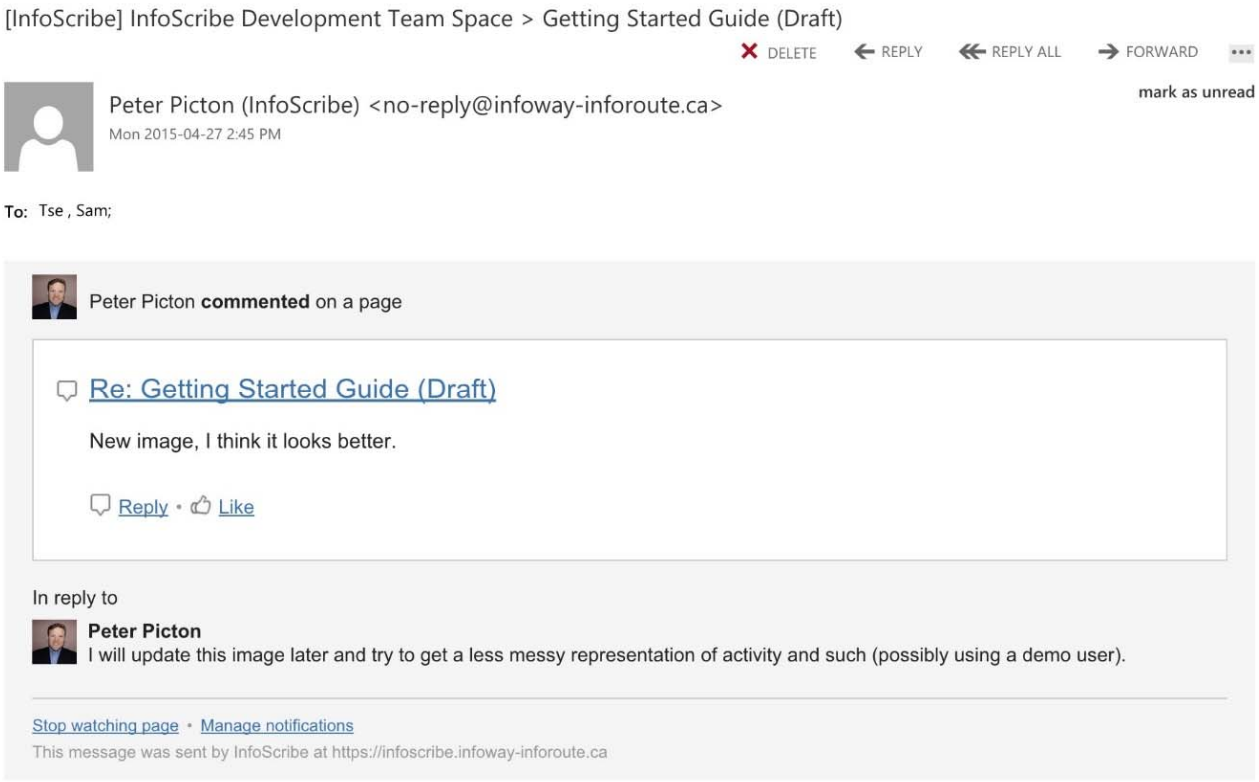
Stay Up-to-Date with Email Notification



[InfoScribe] InfoScribe Development Team Space > Getting Started Guide (Draft)

DELETE REPLY REPLY ALL FORWARD ...

mark as unread

Peter Picton (InfoScribe) <no-reply@infoway-inforoute.ca>
Mon 2015-04-27 2:45 PM

To: Tse , Sam;

Peter Picton **commented** on a page

Re: Getting Started Guide (Draft)

New image, I think it looks better.

Reply • Like

In reply to

Peter Picton
I will update this image later and try to get a less messy representation of activity and such (possibly using a demo user).

Stop watching page • Manage notifications
This message was sent by InfoScribe at https://infoscribe.infoway-inforoute.ca

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PDF Export

Sample Get Medication Profile Specification

Author: Sam Tse
Version: 1.0
Date: May 12, 2015
URL: https://infoscribe.infoway-inforoute.ca/display/SGMPS

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3.1.1 UC-01

Description	A healthcare provider accesses a summary view of a patient's medication history
Actors	Healthcare Provider, Patient
Triggers	The healthcare provides identifies a clinical need to access a patient's medication history. This could happen as part of some other process (e.g. e-prescribing) or as a stand-alone process.
Pre-Conditions	The healthcare provider has been authenticated and has searched for and selected a patient from the Client Registry.
Post-Conditions	The healthcare provider is able to view a summary of the patient's medication history within their clinical system.
Assumptions	1. The DIS (Drug Information System) will keep audit records for each medication profile query made. 2. Prescriptions returned by the DIS will include: Prescriptions ordered but not dispensed; Prescriptions ordered and partially or completely dispensed; Prescriptions dispensed with no order (Inferred prescriptions); and Other (i.e. non-prescription, OTC) medications Retracted records do not come back in query responses. 3. The DIS currently maintains 25 months of medication history profile information online. Access to information that is archived may be available via a manual process by contacting the Jurisdictional help desk.
Business Rules	The following business rules apply to this use case as a whole: BR-01 BR-05 BR-06 Business rules that apply to a specific step in this use case are listed in the Main Flow and Alternate Flow tables.

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InfoScribe

Authoring and Publishing Solution for Clinical Requirements and Specifications

Collaborate

Share

Simple

Versioning

Permissions

Export

InfoScribe is powered by Confluence

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Learn How To:

- Join InfoCentral Communities and Working Groups
- Read and Comment on the Action Plan
- Learn more about or use InfoScribe

Pickup Postcards at the Door
or Stop By the Infoway Booth #300

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Thank you