Argonaut Scheduling

04/26/2017

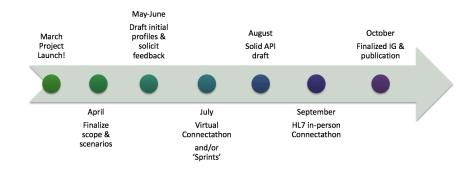
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Overview

- Welcome and Introductions
- Review of last call
- Walkthrough simple use case

Timelines



Summary from last call

- DECISION to Work in R3 and create an R2 version after publishing if demand and budget is there
- Agreed to following Phases
 - Base patient access
 - Base provider access
 - Advanced provider/patient/both

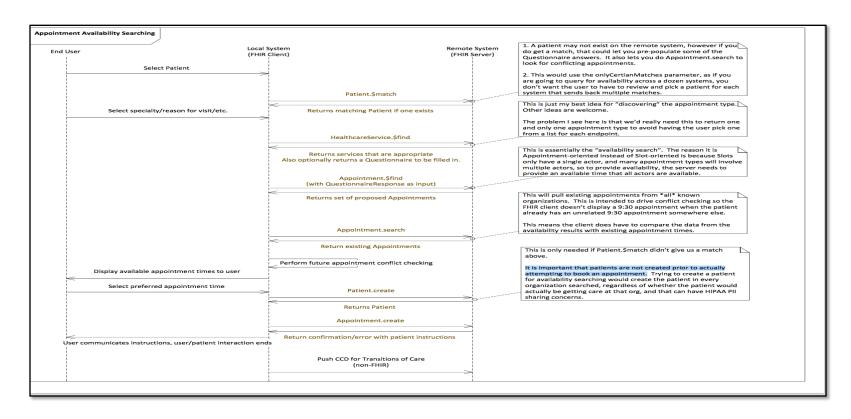
Note - meeting agenda and notes are archived at: https://github.com/argonautproject/scheduling/tree/master/meeting-notes

Scheduling Walk-Through

Simple Scenario: Patient Scheduling for single provider

- Prerequisites:
 - Single Provider (Single Specialty, Location, Service, Endpoint, etc.)
 - Single System
 - Schedule
 - Assume system has available Schedule resource
 - Patient
 - New or Existing
 - Other scenarios: Update/Cancel/Change Appointments out of scope for this scenario

Interaction Diagram by Cooper







- Login and Patient Lookup
- 3. Lookup appointments by date range.
- 5. Choose an Appointment.
- 7. Other steps?

- 2.Search for or create*
 a Patient resource
- 4. Provide list of available appointments
- 6. Accept Appointment for the chosen Slot and Patient







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Step 1: Login and Patient Lookup

- Login: assume client has access and not going to discuss today
- Patient Lookup
 - Existing Patient
 - need to provide some identifying information
 - Name
 - Password
 - ID?
 - Other
 - New Patient
 - need to provide some identifying information





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Step 2: (Server) Patient Matching or create new Patient

- Patient is logged in now what?
 - Does server identify patient based on user login
 - (Patient.\$match?)
 - If Not how is the patient identified
 - New Patient: how do to deal with this?
 - 'It is important that new patients are not created prior to actually attempting to book an appointment.' (Cooper)
 - What, if anything, needs to be returned back to client in step 2:
 - Patient?







- 1. Login and Patient Lookup
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Step 3: (Client) Patient Searches for Availability

- What are the operations or queries we need?
 - See Cooper's OperationDefinition Appointment \$find https://simplifier.net/Scheduling/Appointment-find/rendered
 - Returns proposed 'prefilled' Appointments.
 - see NHS \$gpc.getschedule https://nhsconnect.github.io/gpconnect/appointments use case search for free slots.htm l#request-headers
 - Returns a bundle of slots and other information
- What are basic search requirements for client
 - Available slots for the Provider Schedule
 - Any?
 - Within time range
 - Maximum? e.g NHS limited to 2 week period
 - Other search parameters see NHS design decision: https://nhsconnect.github.io/gpconnect/appointments_design.html#search-parameters
 - Chief Complaint here or in Step 5?





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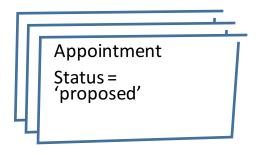
- 2.Search for or create*
- a Patient resource
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Step 4: (Server) Fetches and Returns Available Appointments Based on Client Supplied Parameters

- Based the operations or queries from step 3
 - Return a Searchset Bundle



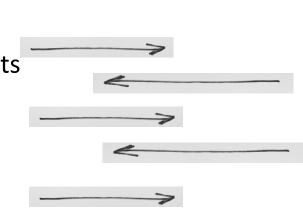


- Errors
 - e.g. No slots available





- Login and Patient Lookup
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- 7. Other steps?





- 2.Search for or create*
 a Patient resource
- 4. Provide list of available appointments
- 6. Accept Appointment for the chosen Slot and Patient

Step 5: (Client) Choose an Appointment time

- What are the operations/queries we need to request an appointment?
 - **POST** /Appointment with updated status for participants
 - See NHS example
 https://nhsconnect.github.io/gpconnect/appointments use case book an appointmen
 t.html
- What data is required to choose an appointment slot
 - Chief Complaint here or in Step 2?
- Alternatively asks for more slots back to step 3





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- 7. Other steps?

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 a Patient resource
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- 6.Accept Appointment for the chosen Slot and Patient



Step 6: (Server) Accepts Appointment request from Client

- Verify and Accept Appointment Request
- Stuff to return to Client
 - Appointment resource with updated status Appointment
 - See NHS example https://nhsconnect.github.io/gpconnect/appointments use case book an appointment.html#requestoperation
 - Do we use AppointmentResponse or some other workflow pattern (Tags?)
 - See NHS decision: https://nhsconnect.github.io/gpconnect/appointments design.html#do-we-need-to-use-the-appointmentresponse-resource
- Create Patient here?
 - 'It is important that new patients are not created prior to actually attempting to book an appointment.' (Cooper)
- Error Handling
 - Slots busy, bad info etc



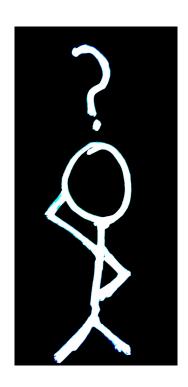


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- 2.Search for or create*
 a Patient resource
- 4. Provide list of available appointments
- 6.Confirm Appointment for the chosen Slot and Patient



Other Steps?



Key Points

- Exchange of Appointment resource only
 - References to Schedule, Slots, Provider, Patient, etc
- Creating a new Patient resource after Appointment made

Next Time: Other Use Cases

- Get all appointments for a Patient
 - Patient View
 - Provider View
- Cancelling and Rescheduling Appointments
 - Keep old cancelled and new booked Appointments