code Learning Lab Agenda

**times are subject to change

**Tuesday, October 9**

10 a.m.  
**code Learning Lab kick-off**, Colonial Ballroom  
John Gresham and Max Rei

10:30 a.m.  
**code Learning Lab presentation by Micky Tripathi**, Colonial Ballroom  
Micky Tripathi

11:30 a.m.  
**Lunch**

1 p.m.  
**Core concepts and best practices to make effective use of FHIR**, Truman A  
This session will provide an overview of FHIR concepts. In this session, you will learn to navigate documentation for the specification and Cerner’s implementation of FHIR, where to go for help, and core concepts of the FHIR specification.  
Max Philips

1 p.m.  
**Trouble shooting with Cerner Ignite APIs for Millennium**, Roosevelt  
This session will provide guidance and hands on exercises to troubleshoot issues in the application and error responses from the FHIR server. It will cover some best practices to make this easy to do for your application both in development and in production, as well as ways to avoid errors in the first place.  
Jenni Syed

1 p.m.  
**Introduction to HealtheIntent APIs**, Truman B  
This seminar will introduce you to the basics of Cerner’s HealtheIntent as an open development platform for population health management. We will provide a high-level introduction to the APIs that are currently available and how they have been used to integrate data from HealtheIntent into clinical workflows in Cerner and non-Cerner systems. This session should help you decide which other sessions are of most interest to you as a developer. The last few minutes will be an introduction to bearer-token authentication, including a hands-on exercise facilitated by Cerner developers. If you have to miss it, Cerner developers will help you catch up in between sessions or during an Open Lab.  
Bonnie Bates and Patrick Elam

2:50 p.m.  
**Break**
3:10 p.m. **Building and integrating SMART on FHIR applications, Truman A**
This session will give participants a complete technical walk-through of how SMART apps are launched, receive context, and access FHIR data for their needs. In this session, you'll gain a deep technical understanding of Cerner Ignite APIs for Millennium and how to leverage open source libraries to reduce the complexity of building SMART applications.
Kol Kheang

3:10 p.m. **Writing data with FHIR, Roosevelt**
This session will cover how your application can write data with FHIR. You will gain an understanding of how writes work generally with FHIR, as well as some examples of pitfalls. We will go through documentation, general concepts surrounding adding and updating data in FHIR, and some specific examples used to illustrate how writes are implemented.
Dennis Patterson

3:10 p.m. **Configuring the consumer portal, Truman B**
This session will provide an overview of what a Consumer Portal is and how you can use HealtheIntent APIs to customize your users’ portal experience. We will discuss configuring the navigation, routing, pages, and pagelets that make up the Consumer Portal, along with other available API features.
TBA

3:10 p.m. **Building personnel and organizations, Nixon**
Personnel and Organizations are a key component of a robust population health strategy. Consultants from Cerner’s HealtheIntent Identity Management team will explain how you can use HealtheIntent’s Personnel and Organization APIs to automate the initial build and ongoing maintenance of this important part of your configuration.
Tony Freeman and Justin Knysz

3:10 p.m. **Open lab, Wilson & Hoover**
This hands-on lab has a limited number of seats available for developers with coding experience. Open labs can be taken in conjunction with Lectures, or individually. You must register for each open lab session you want to attend. You also have the option to bring in your own project to collaborate with our engineers.
Cerner engineers and architects
Wednesday, October 10

10 a.m.  code app challenge winner and Q&A, Colonial Ballroom
Yegor Hanov

10:30 a.m.  Open APIs and a platform approach at Oxford: Supporting developer innovation at a global scale, Colonial Ballroom
Hear from Oxford University about the strategic plan to translate rich historical research innovation experience, to the digital health space. This Open platform based operational structure is a collaborative effort by Oxford and Cerner to support developer innovation at scale globally. In this keynote session, you will learn what opportunities exist and next steps to have your innovation considered for this program.
Micky Tripathi

11:30 a.m.  Lunch

1 p.m.  Calling secured FHIR services using SMART, Roosevelt
In this session you’ll learn how Cerner Ignite APIs for Millennium are secured, including industry best practices.
Matt Randall

1 p.m.  Remote decision support with CDS hooks, Truman B
CDS Hooks is an open-source project that leverages both FHIR and SMART to provide developers an open and interoperable standard for performing remote clinical decision support. This session will provide a deep-dive overview and hands on tutorial lead by Kevin Shekleton, the CDS Hooks project lead and Cerner Vice President & Distinguished Engineer.
Kevin Shekleton

1 p.m.  Patient-oriented APIs and using HealtheIntent data syndication for bulk extraction and delivery, Truman A
This session will describe the various APIs that allow you to retrieve information from a patient’s longitudinal record in HealtheIntent (allergies, medications, conditions, etc.), as well as algorithmic outcomes including registries, measures, and HCCs. We will also discuss how and why clients use HealtheIntent’s Data Syndication capabilities to extract data from HealtheIntent in bulk. This discussion will include recommended patterns for interrogating and retrieving your extract files, as well as how to use data syndication to share data sets with users outside of your organization.
Michelle Miller, Daniel Holder, Mark Cummings, Patrick Elam, Matt McKenna, and Jacob Williams
1 p.m.  **Building a pagelet for the consumer portal, Nixon**
This session builds on the “Configuring a Consumer Portal” session to focus on creation of a custom pagelet that can be embedded into your Consumer Portal. We will discuss the details of what a pagelet is and how to incorporate it into your Consumer Portal application using the Extensible Application Framework APIs. We will also cover how to use our SDK in your website or web application so that it can function as a pagelet in the Consumer Portal.
TBA

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Cerner engineers and architects

2:50 p.m.  **Break**

3:10 p.m.  **Collaboration through Cerner open developer experience and looking forward to 2019, Truman A**
Matt Obenhaus and Adam White

3:10 p.m.  **Putting it all together, Truman B**
This session is focused on practical aspects of building, testing and deploying a SMART application into Production. It will cover common issues seen in integrating SMART applications into the EMR workflow, concept mappings and deployment.
Yegor Hanov

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Cerner engineers and architects