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Open Health Stack

Open Health Stack
Developer Workshop

At Global Digital Health Summit 2023

Date: 2nd September

Venue: Jio World Convention Centre, Mumbai, India

Introduction

The Health Parliament-CoLab, together with Google Health, will be running the '**Open Health Stack Developer Workshop**' at the upcoming **Global Digital Health Summit 2023**.

This will be a one-off opportunity for developers to be a part of a hands-on workshop to learn more about **Open Health Stack** (OHS) and how it can be used to build digital health solutions that leverage the **HL7 FHIR** specification.

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What is Open Health Stack?

Open Health Stack (OHS) is a suite of open source components and developer resources designed to help accelerate development of interoperable digital health solutions with a focus on standards, security, and advanced analytics.

By using OHS components developers can spend less time solving common technical problems and more time building next-gen digital health solutions.

OHS is designed to meet the specific needs of developers and implementers building and deploying **FHIR** -based solutions for healthcare workers.

With OHS developers can:

- Build faster: Build FHIR-native Android apps that are secure, offline-capable, and configurable
- Enhance privacy: Control access to sensitive data, enhancing privacy for patients and healthcare workers
- Unlock insights: Query FHIR Resources to generate insights that can be used to populate dashboards, and enable better care decisions

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Digital Public Goods Alliance

Advancing SDGs as a 'Digital Public Good'

Open Health Stack was recently recognized as a Digital Public Good by the Digital Public Goods Alliance.

digital square

Recognized as a 'Global Good for Health' by Digital Square

The Android FHIR SDK, a component of Open Health Stack, has been officially approved as a Digital Square Global Good for Health.

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Learning Objectives

1. Understand the fundamentals of a digital health application built on FHIR
2. Learn about the OHS components and the types of solutions that can be built
3. Get hands-on experience using OHS tools for different digital health use cases
4. How OHS supports country Profiles such as ABDM

What will you build?

In this series of codelabs, you'll learn:

- How to build a FHIR native health app on Android using the Android FHIR SDK Libraries.
- How to set-up and configure the FHIR Data Pipes with sample data and optionally configure a SuperSet dashboard.

What will you need?

This is a workshop for software developers with existing experience on Android or backend development.

For Android Code Labs:

- A recent version of Android Studio (v4.1.2+) - https://developer.android.com/studio/install
- Android Emulator or a physical Android device connected to your computer
- Basic knowledge of Android development
- Basic knowledge of Kotlin (or interest)
- Docker client

For Analytics Tutorials:

- Docker client

Schedule

Time	Agenda
9-9:45am	Introduction to the Workshop • Basic introduction to FHIR for Digital Health Developers • Navigating the FHIR Specification • Clinical Data Model on FHIR • Common FHIR Resources to know about • Basics of working with FHIR - search API, Restful API
9:45-10:30 am	Introduction to OHS • Components • Types of use cases • Examples
10:30-11 am	Tea Break
11-11:45 am	Tutorial: Building mobile apps with Android FHIR SDK
11:45-12:30 pm	Tutorial: Horizontally scalable analytics on FHIR
12:30-1:30 pm	Lunch break
1:30-3 pm	OHS hands-on
3-3:30 pm	Tea break
3:30-4:45 pm	OHS hands-on (continued)
4:45-5 pm	Wrap up