

## Jembi/HITRAC Training October 2013

### Mule ESB Tutorial – Patient Viewer

There are several basic registry services providing patient data:

- Patient demographics: **192.168.0.239:8888/patient.php?patientId=X**
- Patient encounters: **192.168.0.239:8888/encounters.php?patientId=X**
- Facility locations: **192.168.0.239:8888/facility.php?facilityId=X**

For this tutorial you must build a **patient viewer service** using Mule ESB that combines the raw data output of these registry services and formats the results into html. The result must be made available on an HTTP endpoint so that it can be viewed on a standard web browser.

The Mule app must expose an endpoint **patientViewer?patientId=X**. The patient id must be used to lookup the patient in the demographics and encounter services. The encounter data will contain a facility id. This id must be used to fetch the correct location from the facility service.

There are two test patients with identifiers: **1234** and **3456**.

#### Tips

Use the *floss approach* when building your application:

<https://wiki.openmrs.org/display/RES/The+Story+of+the+Floss>

First start by doing a simple end-to-end service that just fetches the patient demographic data with hardcoded patientId. Next add in the html transformation for the result. Next add the encounter lookup. Keep going like this adding functionality step by step.

*Curl* is useful for viewing the data from the registry services, e.g.

**curl 192.168.0.239:8888/patient.php?patientId=1234**