

iHealth Birth Certificate App User Manual

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Introduction

The collection and submission of birth certificate information to state vital statistics agencies is currently the responsibility of birth certificate clerks, typically staff in medical records departments of hospitals. For each birth occurring in a hospital, birth clerks are required to abstract clinical information from the records of both the mother and the newborn. This information is hand-written onto a facility worksheet. A second worksheet, the mother's worksheet, is completed by the mother and father, if applicable, and contains demographic information about the parents and the desired name of the newborn child. Both worksheets are entered into a web-based form called an electronic birth registration system (EBRS) and submitted to the state health department birth certificate registry.

System Requirements

- **Operating Environment:** IE, Safari, Chrome or Firefox.
- **CPU:** 1.2 GHz and higher
- **RAM:** 1.0 GB and larger
- **Internet access** through cellular or WLAN is available when necessary.

Set up:

1. Connect with the FHIR server

Run Docker

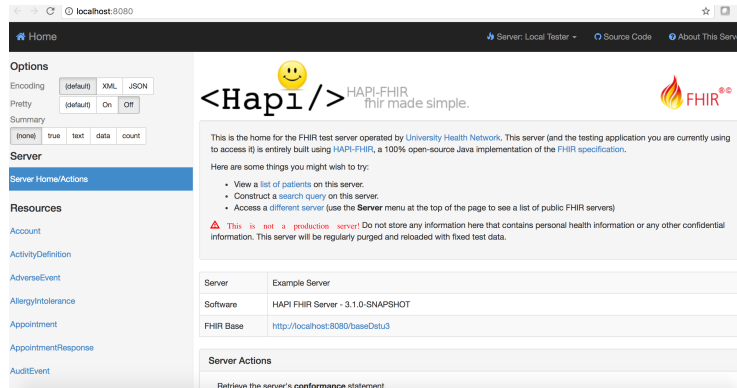
From command line, type:

```
docker run -d -p 8080:8080 --name=my-fhir-server djohnson325/hapi-fhir-jpaserver:stu3
```

Then point your web browser to:

<http://localhost:8080/>

You should see the following screen



2 Up load newborn's information to the server


We use tag-uploader to upload newborn's data to the FHIR server
(The details can be seen at <https://github.com/smart-on-fhir/tag-uploader>)

```
In command line/terminal type: git clone https://github.com/smart-on-fhir/tag-uploader.git  
cd tag-uploader  
npm i
```

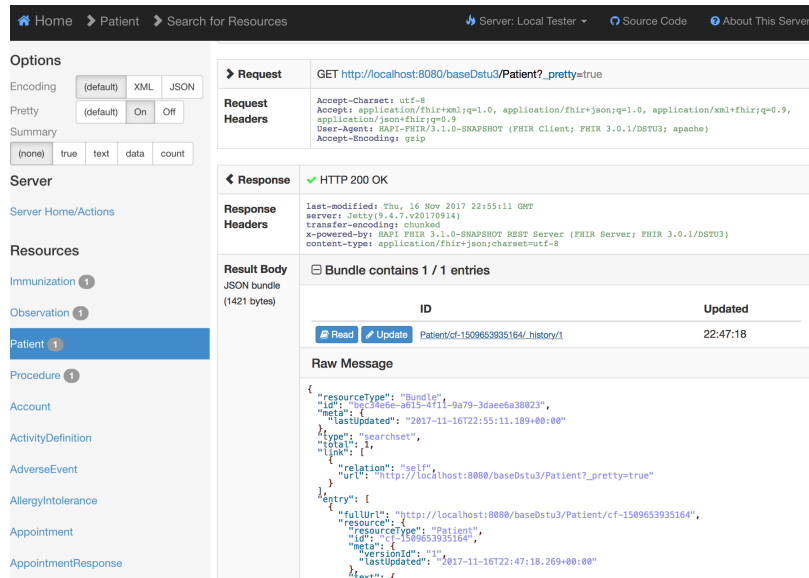
Create a new folder called STU3, put BabyBoy iHealth.json to the STU3 folder
From command line/terminal, type

```
node . -d ../path/to/BabyBoy iHealth.json -S http://localhost:8080/baseDstu3
```

You should be able to see the file get processed as shown in the following image

0%  Processing file
100%
Done 1 files processed, 4 resources tagged, 1 resources uploaded, 0 resources
failed to upload

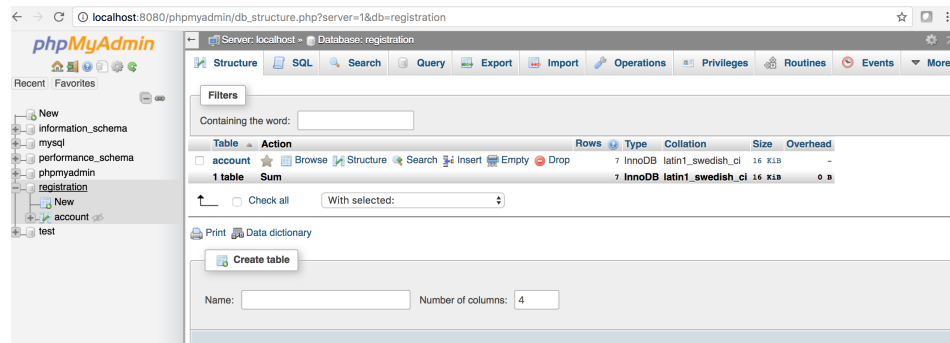
In the server, click patient, you should see the patient (newborn) data there. The id is cf-1509653935164



3 Run the app.

Local server for the web application can be set up using Xampp Apache (port need to configured at 8080).

Database can also be setup using Xampp Mysql, the name of the database need to be "registration", the table can be set up based on the account.sql. As shown in the image:



Download the project folder and put it at xampp/hotdocs/

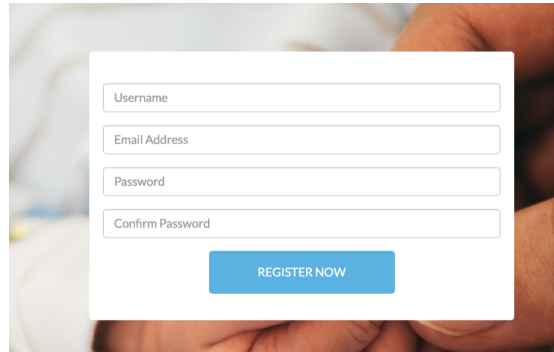
Access the web application at <http://localhost:8080/.../index.php> (point to the location of index.php file.)

Register

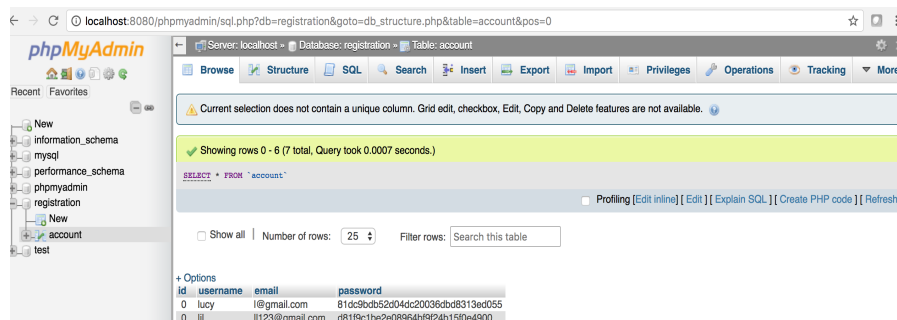
1. Go to the website, click the "Get Started!" button
2. Click "Register" button on the upper right.
3. Input "Username", "Email Address", "Password" and "Confirm Password" in the blanks for the new register. The new register cannot be duplicated with old ones. The encoded

phrases should be encoded with a simple substitute cipher. The phrases are limited to 512 characters.

4. Click "REGISTER NOW" button to create the new register.
5. You should able to see database get updated



A registration form with four input fields: Username, Email Address, Password, and Confirm Password. Below the fields is a blue button labeled "REGISTER NOW".



A screenshot of the phpMyAdmin interface. The left sidebar shows the database structure with 'registration' selected. The main panel shows the 'account' table with 7 rows. A message states: "Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available." Below this, a query result is shown: "Showing rows 0 - 6 (7 total, Query took 0.0007 seconds.)". The query is "SELECT * FROM 'account'". Below the query, there are options to show all, number of rows (25), and filter rows. At the bottom, a table of data is displayed:

	id	username	email	password
0	lucy	l@gmail.com	81dc9bcb52d04dc20036dbd8313ed055	
0	ly	l123@gmail.com	d8119c1be2e0894b09f24b150e4900	

Login

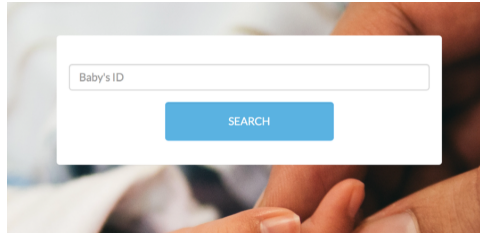
1. Go to the website, click the "Get Started!" button
2. Select the "Login" button on the upper right.
3. Input "Username", "Password".
4. Click "LOGIN IN"

Logout

1. Click the "Logout" button in the menu.

Search

1. Login to the website.
2. Input a valid patient information (cf-1509653935164) .
3. Click the "Search" button.
4. You would see the details of patient information.

A screenshot of a web application titled "iHealth". The navigation bar includes links for "Home" and "About", and a user profile section showing "hello, test02" and a "Logout" button. The main heading is "Birth Registration Form". Below this, there is a section titled "NEWBORN INFORMATION" with several input fields. The fields are filled with the following data: "Child First Name" is "Babytest", "Child Last Name" is "ihealth", "Date of Birth (yyyy-mm-dd)" is "2017-11-05", "Child Sex" is "female", "Home address" is "4321 North Main Street", "City" is "Orlando", "State" is "FL", "Postal Code" is "34567", and "Country" is "USA".

We can only see part of the newborn's information, the rest (such as mother's information) need to be filled manually. Once completed, click "submit".

Note: we did not really submit the data to the server (we are new to database), since we have contacted with our mentor and he agreed this part is optional depend on the time we have.

TECHNICAL SUPPORT

Technical support: iHealth Team