

# iHealth Birth Certificate App User Manual

**Team Name:** iHealth

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**Project Name:** Birth Certificates on FHIR

**GitHub link:** <https://github.gatech.edu/gt-hit-fall2017/Birth-Certificates-on-FHIR>

## 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.

## Step by Step Setup

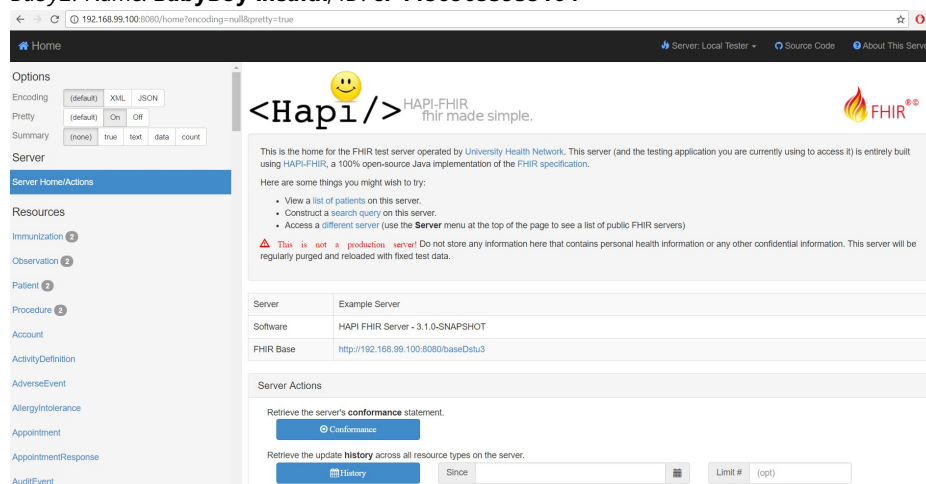
1. Download the Final Delivery folder
2. In docker terminal, go to the Final Delivery folder, run **docker-compose up**
3. Navigate to <http://192.168.99.100:8080/> to access the index page of the website.
4. FHIR server web page can be accessed at: <http://192.168.99.100:8080/>

## FHIR Server Introduction

A new docker image of FHIR server with 2 babies' EHR data is created by modifying Daniel Johnson's original FHIR server.

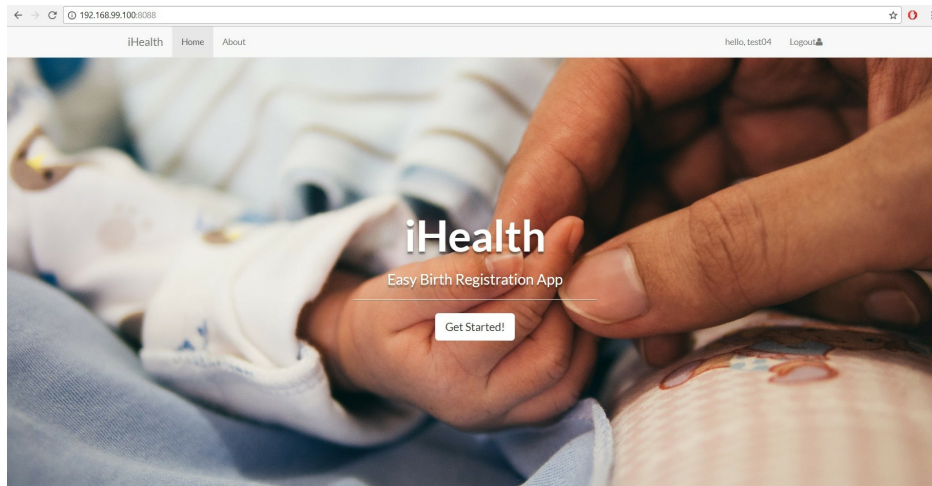
**Baby1:** Name: **BabyTest lhealth**, ID: **cf-1509653935164**

**Baby2:** Name: **BabyBoy lhealth**, ID: **cf-11509653935164**



## Web Application User Instruction

1. Go to the website index page (<http://192.168.99.100:8080/>), click the "Get Started!" button. The user will be navigated to login page if the user is not logged in. If the user already logged in, the search page will show up.



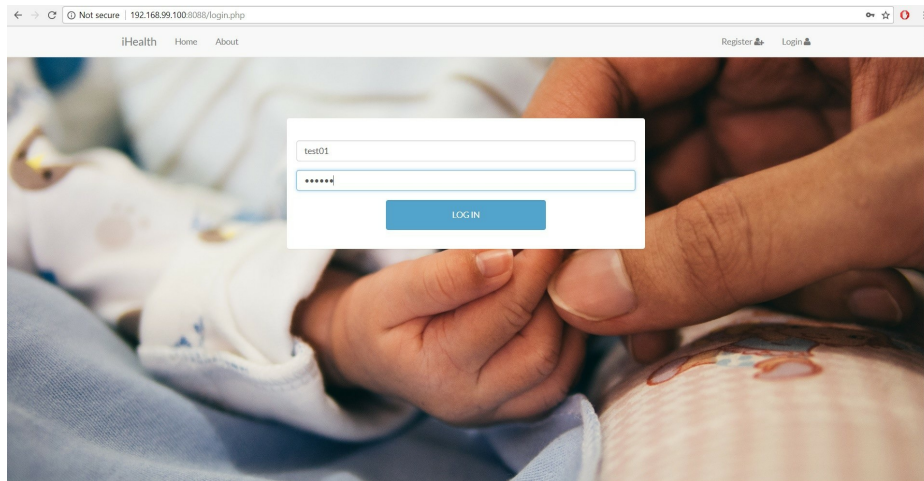
2. You need to login as an authorized user in order to deliver baby's registration form.  
There are two choices:

- Login with the test username and password:

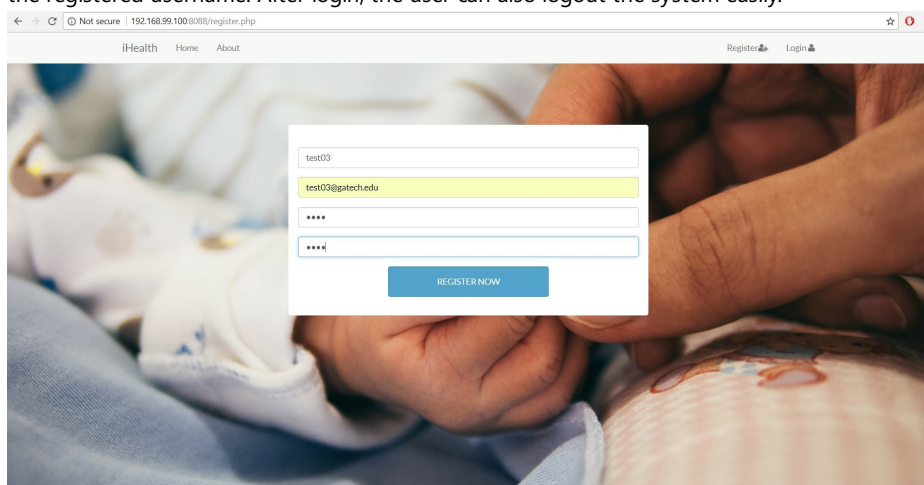
Username1: **iHealth** Password: **1**

Username2: **test01** Password: **123456**

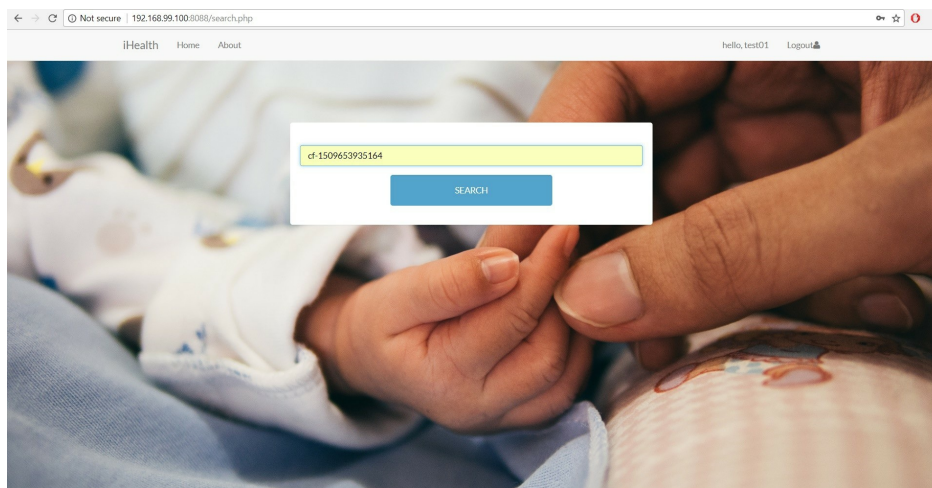
Username3: **test02** Password: **123456**



- Register as a new user. There will be notification if new register is duplicated with old ones. After registration, the user can login with the registered username. After login, the user can also logout the system easily.



3. After login, the user will be navigated to the search page automatically. The user can search the baby's information in the database using ID (e.g., cf-1509653935164).



There will be alert if the baby ID cannot be found in the database:

**Birth Registration Form**

**NEWBORN INFORMATION**

Child First Name:  Child Last Name:  Date of Birth (yyyy-mm-dd):  Child Sex:

Home address:  City:  State:

Postal Code:  Country:

**NEWBORN MEDICAL**

Infant Transferred ☐ Name of Facility Transferred To:  Facility Code:  State Infant Transferred To:

Infant Deceased ☐ Yes ☐ No ☐ Date of Death  Death State:  \*State File Number of Death Certificate:

4. Click "SEARCH", then the populated form will show up. Only the information that can be found in the EHR database will be populated.

**NEWBORN INFORMATION**

Child First Name:  Child Last Name:  Date of Birth (yyyy-mm-dd):  Child Sex:

Home address:  City:  State:

Postal Code:  Country:

**NEWBORN MEDICAL**

Infant Transferred ☐ Name of Facility Transferred To:  Facility Code:  State Infant Transferred To:

Infant Deceased ☐ Yes ☐ No ☐ Date of Death  Death State:  \*State File Number of Death Certificate:

Hepatitis Vaccination ☒ \*Date Given  Hepatitis Refused ☐ Newborn Screening Number  Newborn Screening Refused ☐

Medical Notes

**ABNORMAL CONDITIONS OF NEWBORN**

5. The user can manually input the information according to mother's worksheet. After confirming all the information is correct, the user can click "confirm and submit!"



ABNORMAL CONDITIONS OF NEWBORN

PLEASE CHECK ALL THAT APPLY: ☐ None

- ☒ Anemia
- ☐ Assisted Ventilation Required Immediately Following Delivery (first 30 minutes)
- ☒ Assisted Ventilation Required for More Than Six Hours
- ☐ Respiratory Distress Syndrome (RDS) / Hyaline Membrane Disease
- ☐ Seizure or Serious Neurologic Dysfunction

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MOTHER INFORMATION

Mom Marital Status at Time of this Birth: Married to Father of Newborn ☒ Not Married ☐ Married, but not to Father of Newborn ☐

Was Mom Ever Married: Yes ☒ No ☐ Unknown ☐ Was Mom Married at Conception, at Birth, or Any Time in Between: Yes ☐ No ☒ Unknown ☐

(Mother Current Legal Name) First Name:  Test Middle Name:

Last Name:  Test Suffix:  \*Mother Date of Birth (YYYY-MM-DD):  1988-01-01

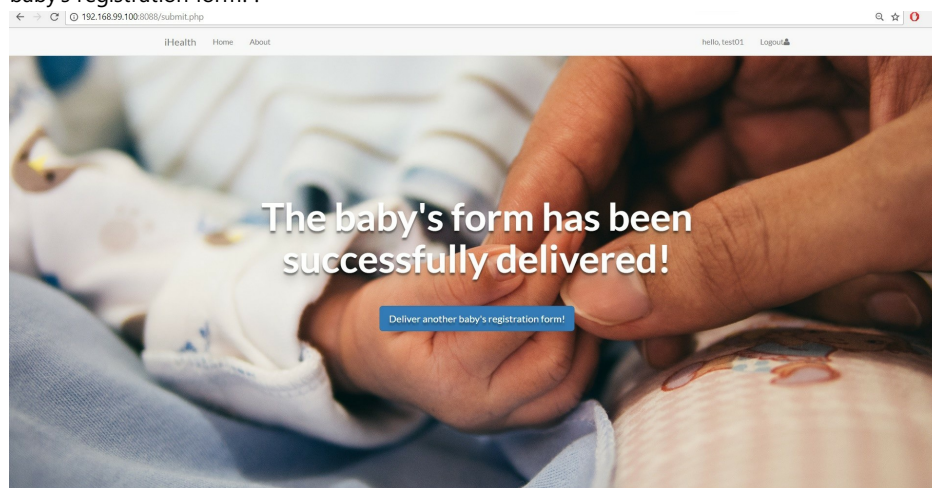
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MOTHER CONFIDENTIAL

\*Mother Medicaid Number:  KDJ2455666 Did Mother Receive WIC Food for Herself During Pregnancy: Yes ☐ No ☒ Unknown ☐

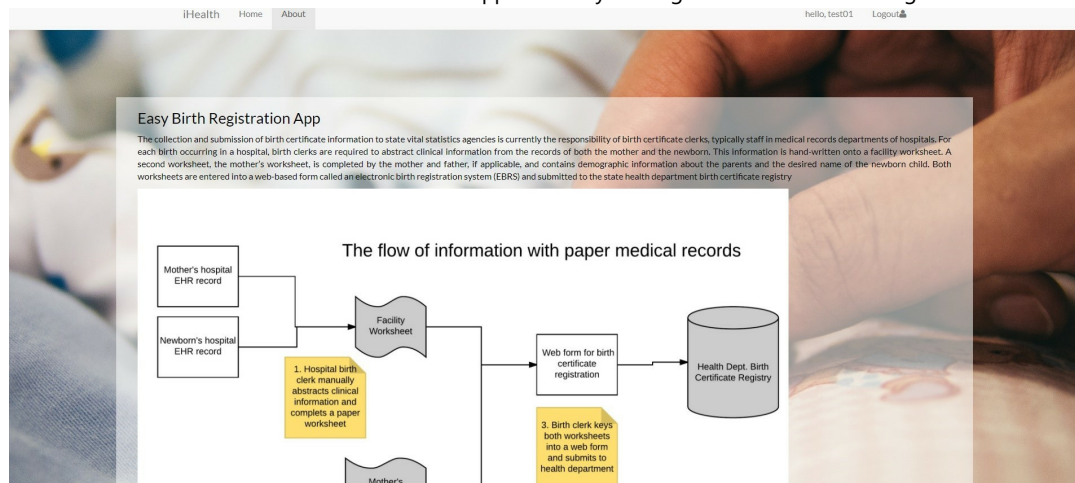
Primary Source of Payment for This Delivery: Medicaid ☐ Private Insurance ☒ Self-Pay ☐ Indian Health Service ☐ CHAMPUS/TRICARE ☐ Other Government (Fed, State, Local) ☐ CHIP ☐ Other ☐

6. Then form will be delivered to the birth registry. The user will be navigated to search page again if the user clicks on “Deliver another baby’s registration form!”.



*Note: We didn't submit the data to the birth registry server. This may have confidential problems, we also contacted our mentor Dr.Duncan and he agreed that this part is optional.*

7. There's also a brief introduction about the web application by clicking on “About” in the navigation bar.



## Technical Support

**Technical support:** iHealth Team