iHealth Birth Certificate App User Manual

Team Name: Team 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.

Set up

1. Download the Final Delivery folder

2. In docker terminal, go to the Final Delivery folder, run `docker-compose up`

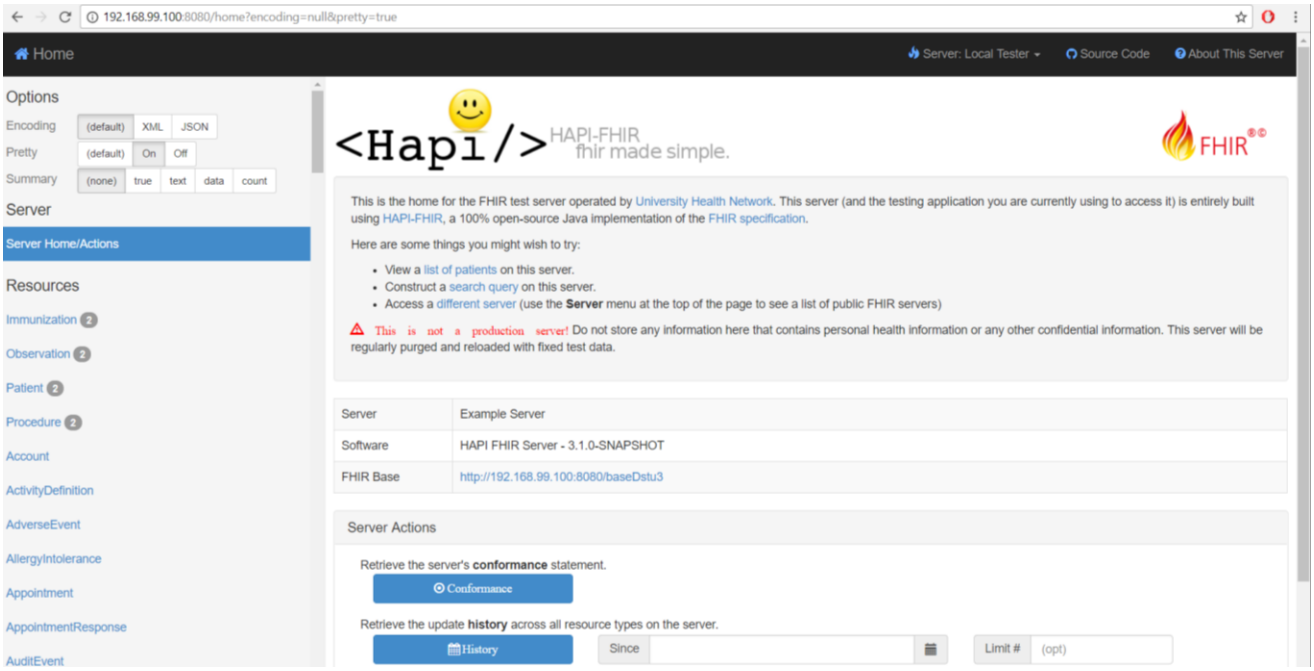
3. Navigate to http://192.168.99.100:8088/ to access the index page of the website.

4. FHIR server web page can be accessed at: http://192.168.99.100:8080/

FHIR server introduction

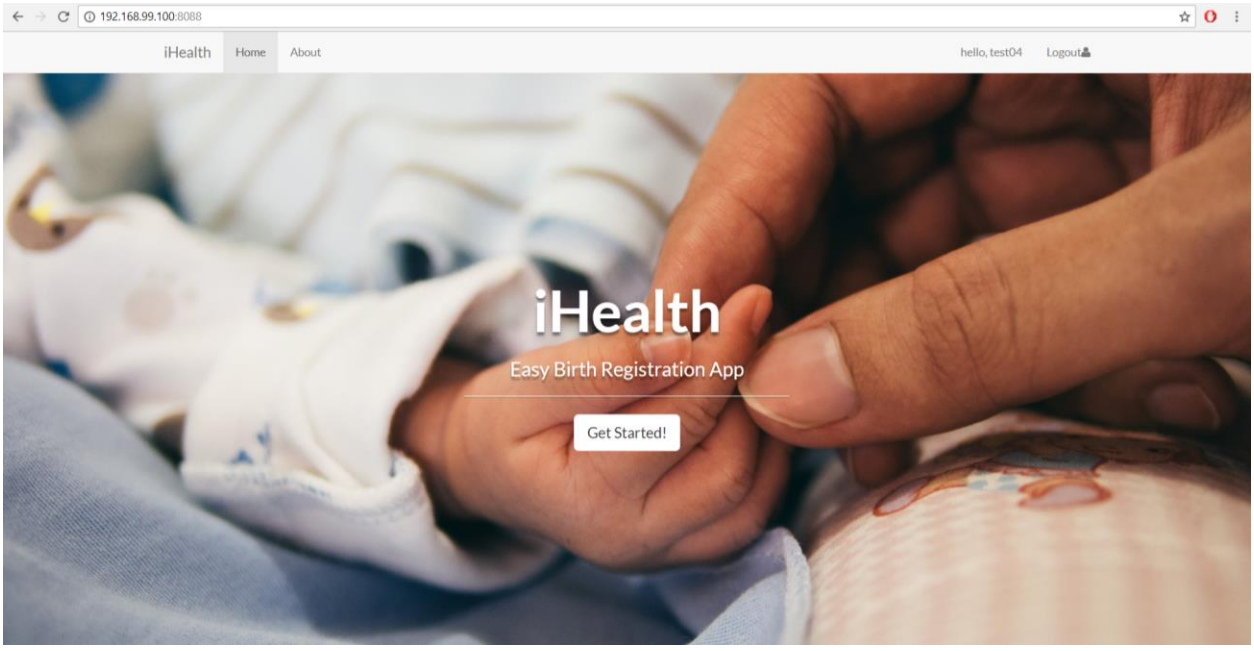
A new docker image of FHIR server with 2 babies' EHR data is created by modifying Daniel Johnson's original FHIR server.

```
Baby1: Name: BabyTest Ihealth, ID: cf-1509653935164
Babay2: Name: BabyBoy Ihealth, ID: cf-11509653935164
```



Web Application User Instruction

1. Go to the website index page (http://192.168.99.100:8088/), 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.

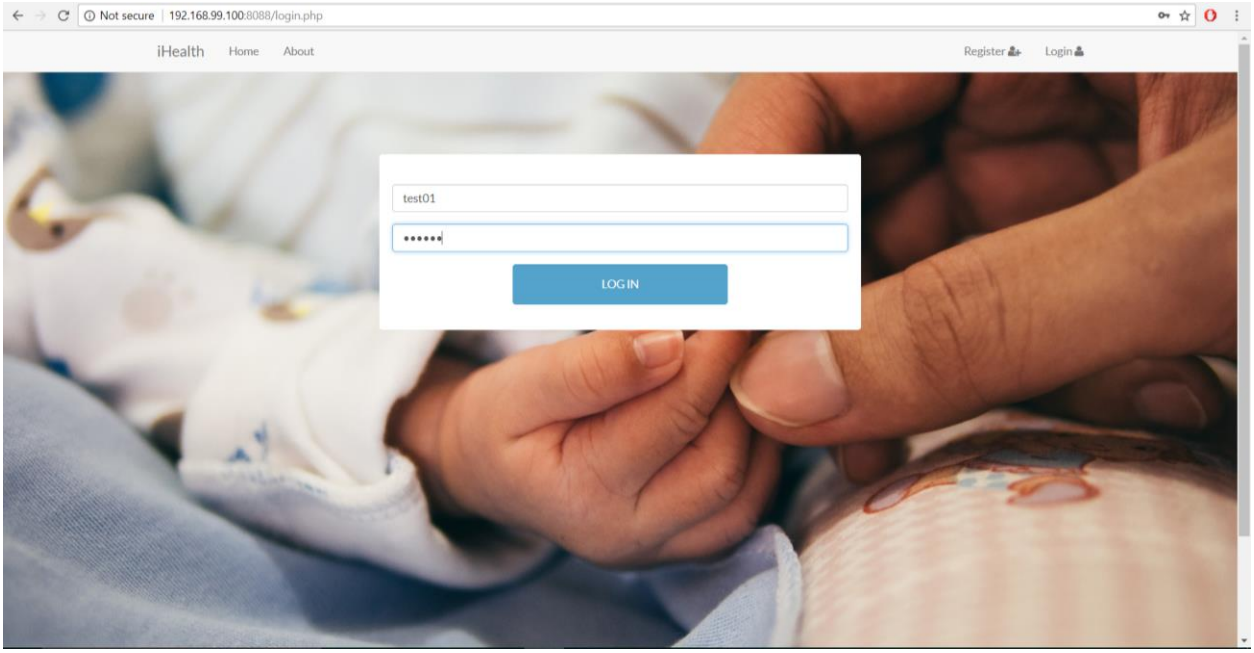
There are two choices:

A. Login with the test username and password:

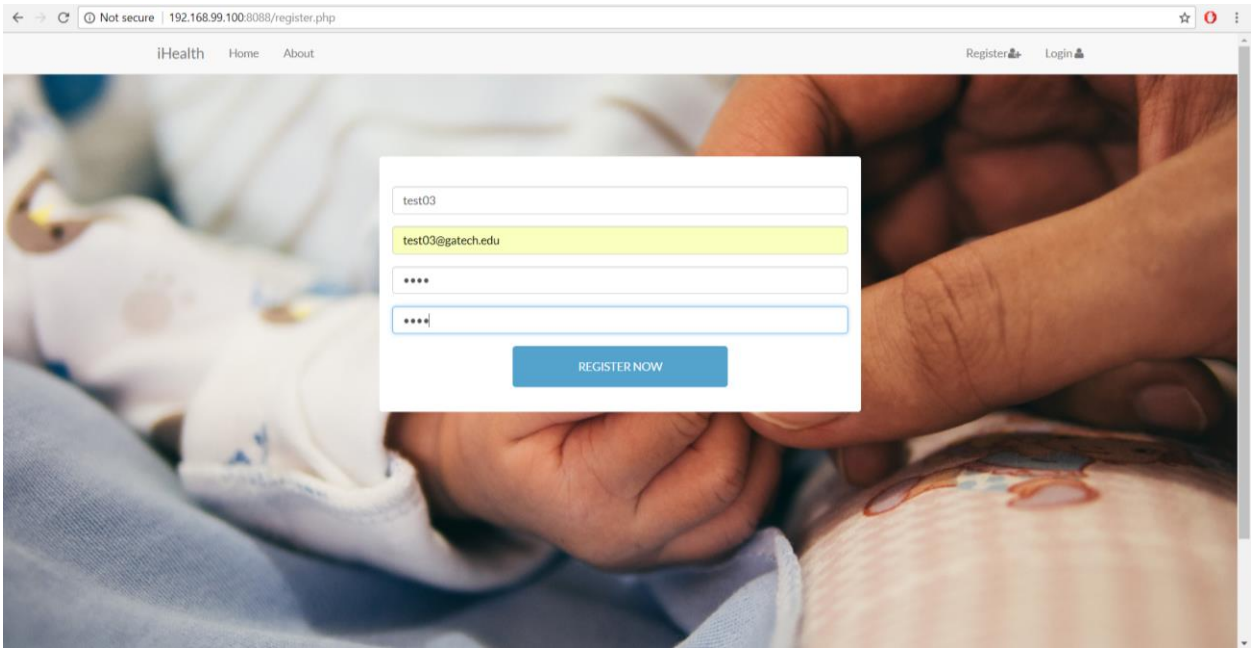
Username1: iHealth Password: 1

Username2: test01 Password: 123456

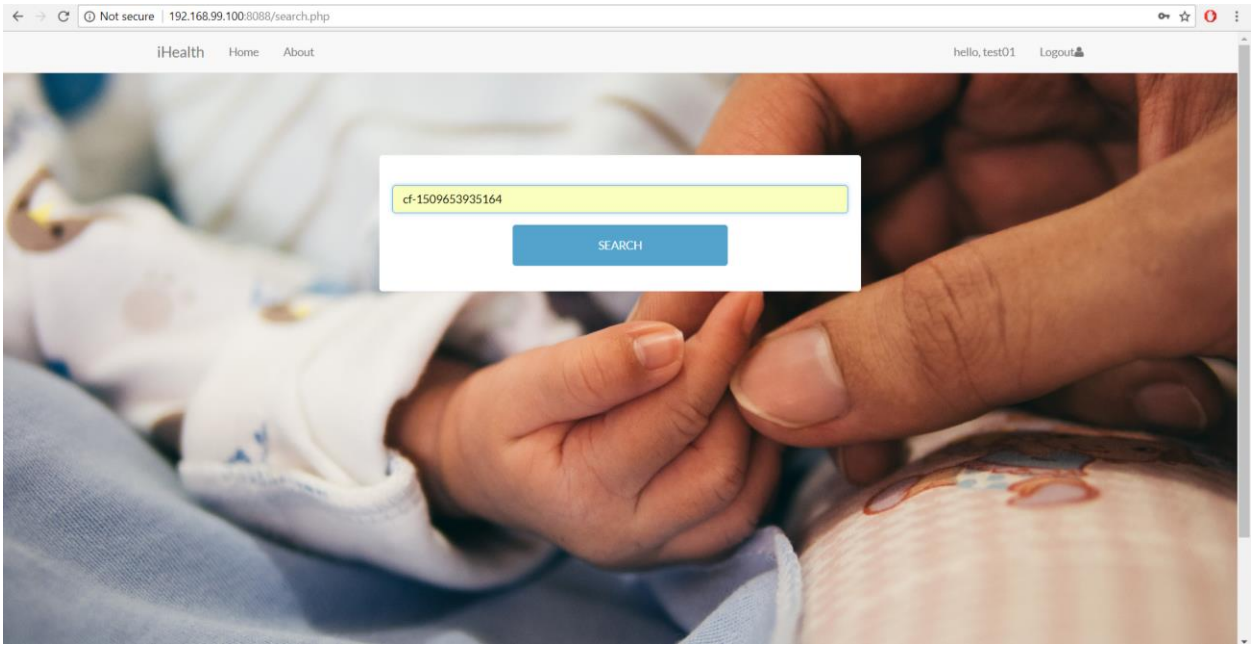
Username3: test02 Password: 123456



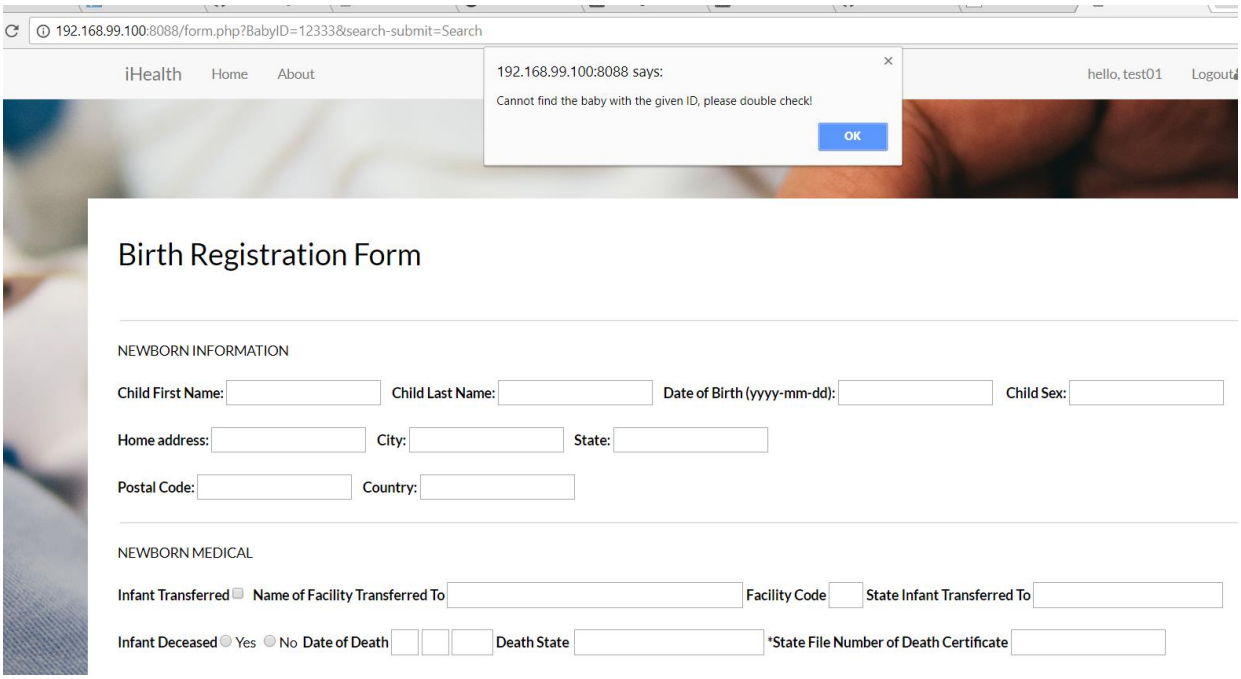
B. Register as a new user. There will be notification if new register is duplicated with old ones. After registration, the user can login with the registered username.



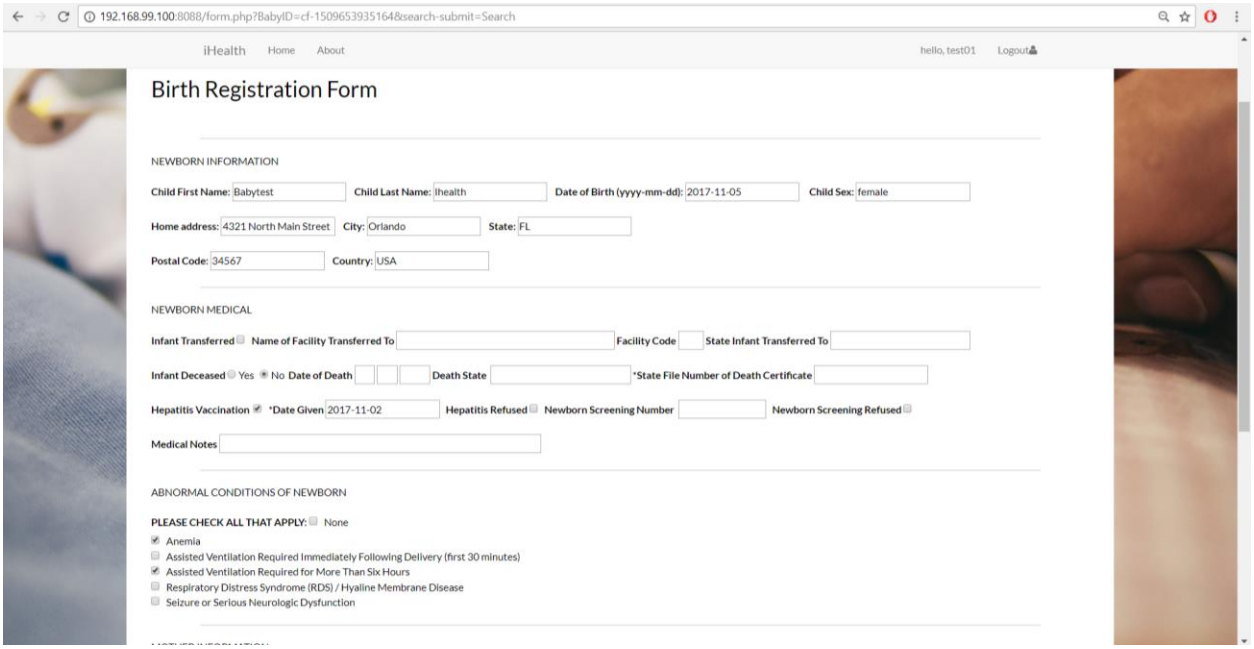
3. After login, the user will be navigated to the search page automatically. The user can search the baby's information in the databased using ID (e.g., cf-1509653935164). After login, he user can also logout the system easily.



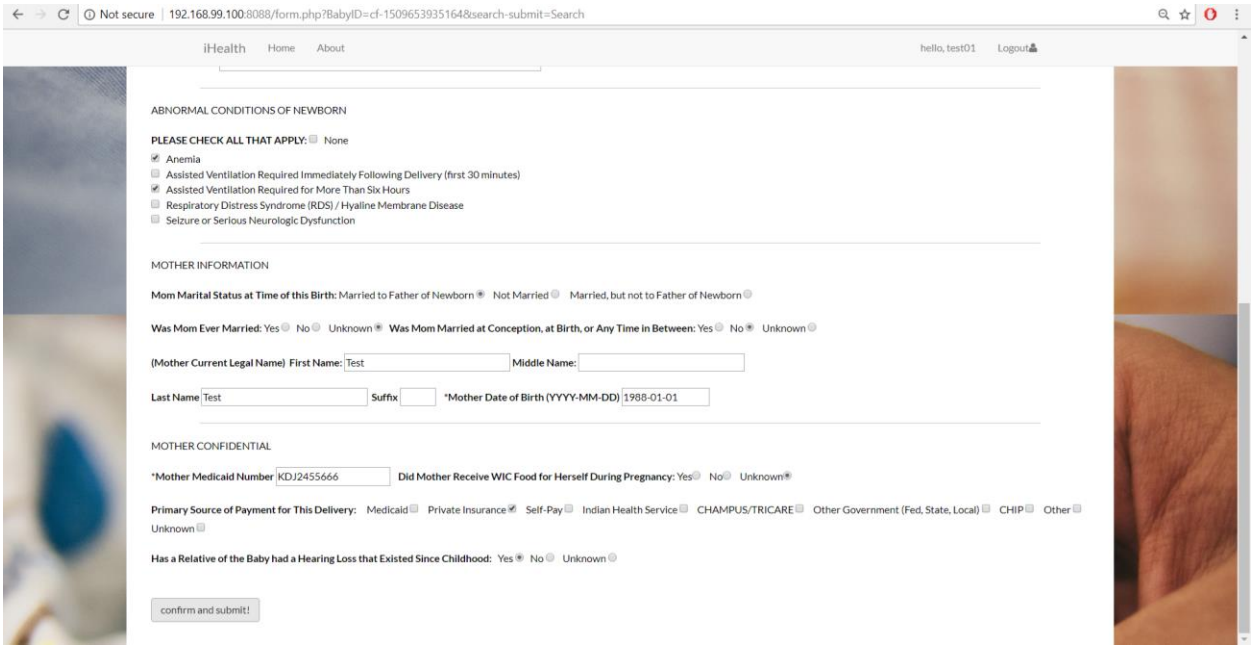
There will be alert if the baby ID cannot be found in the database:



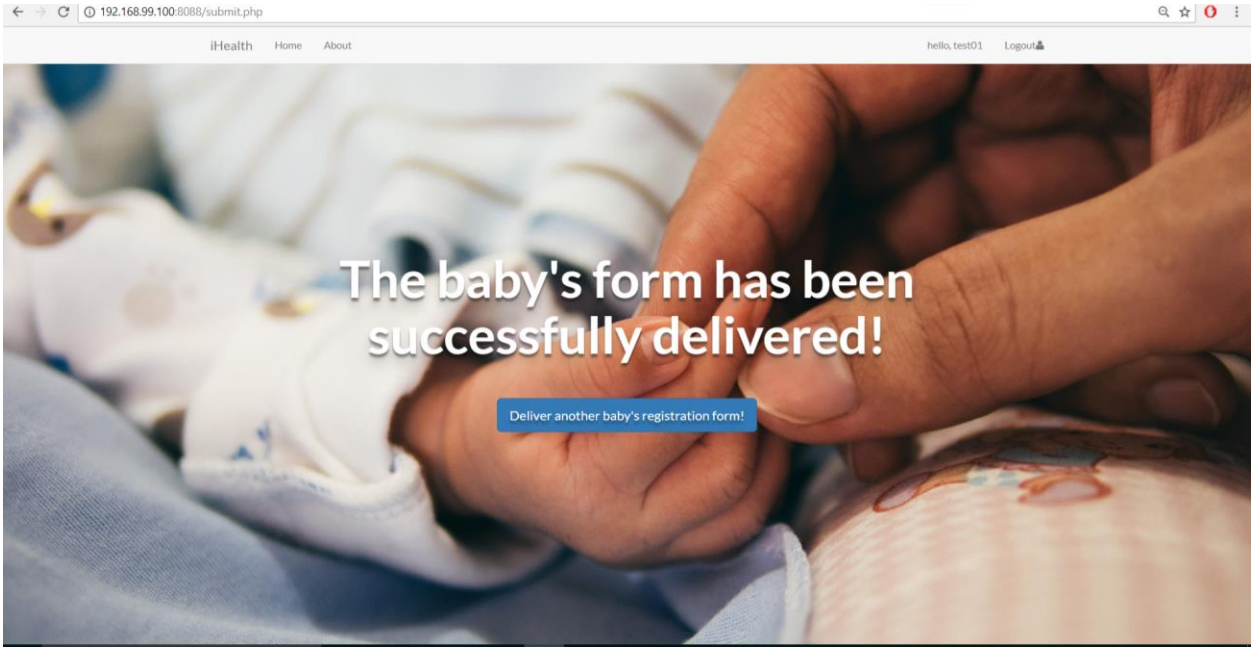
4. Click “SEARCH”, then the populated form will show up. Only the information that can be found in the EHR database will be populated.



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!”

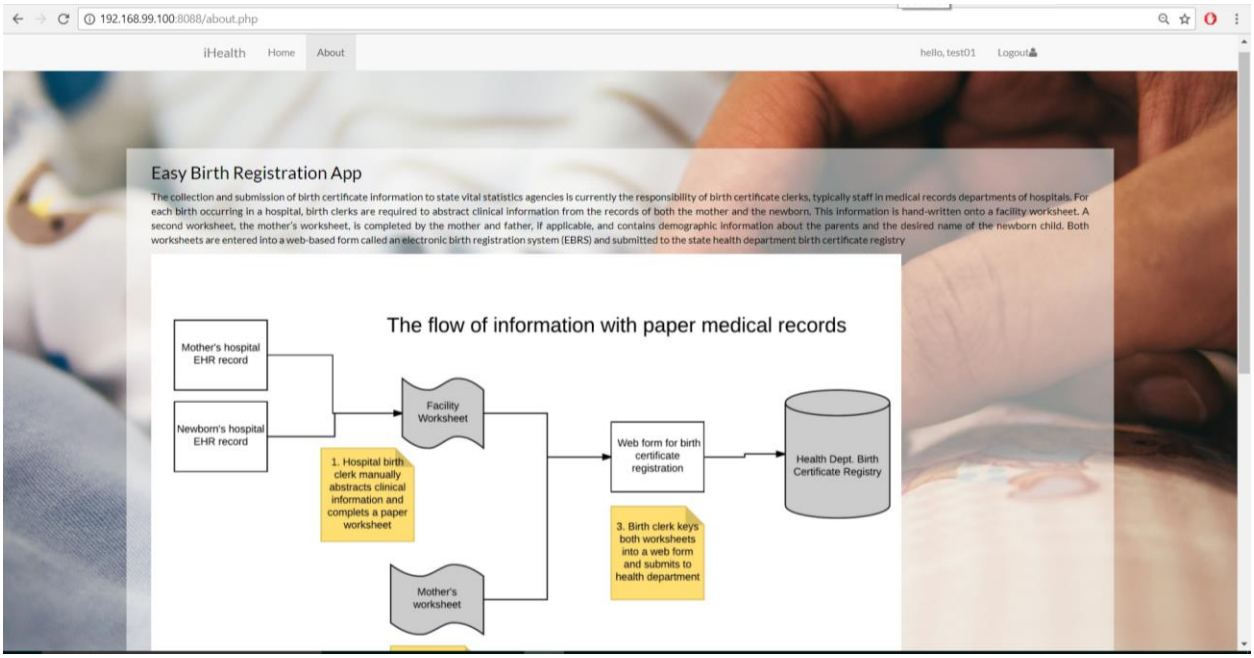


6. Then form will be delivered to the birth registry. The user will be navigated to search page again if the click on “Deliver another baby’s registration form!”.



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.

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