SPECIAL INSTRUCTIONS

For Team Floriders SMART ON FHIR Survey Web App

Abstract

The following documents is designed for the CDC, this guide would help you deploy the web app in your own server. GA TECH Instructors please review the “Manual” on how to run the web app since the web app is being hosted by a Team Florider AWS controlled web server.

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How to Deploy Web App

Requirements

One Linux Server:

- Duo Core Processor
- 4 GB of RAM
- 250 GB Hard Drive

Software:

Docker 1.1 or above

GIT 2.1 or above

Postgresql 9.5 or above

Network:

Port 8080, 5432 must be open on the server

How to Deploy Web App using Docker

1. Open a terminal
2. Run the following command to clone the git public repo
   git clone https://github.com/eloporras/CDC-Population-Health-Informatics-Framework.git
3. Navigate to the following folder
   cd CDC-Population-Health-Informatics-Framework\Final Project\Final Application\Application
4. Run the following command within this folder (including the ".")
   docker build -t CDC_Survey_App .
5. Run the following command to run the Docker Container
   docker run -t -i -p 8080:8080 CDC_Survey_App /bin/bash
6. Within the shell prompt of the docker container run the following command
   service tomcat8 start
7. The app should be running within the following URL
   http://{your-host-name}:8080/fhir-app/

How to add Questions and Response to PostgreSQL database

Background

There are five tables in our database: question, question answer, subquestion, section and survey.

The "**survey**" table contains three surveys and the "**section"** table contains three sections for our application.

The "**question"** and "**subquestion"** tables list all the questions for the survey and the "**question_answer"** table contains all the answers for these questions

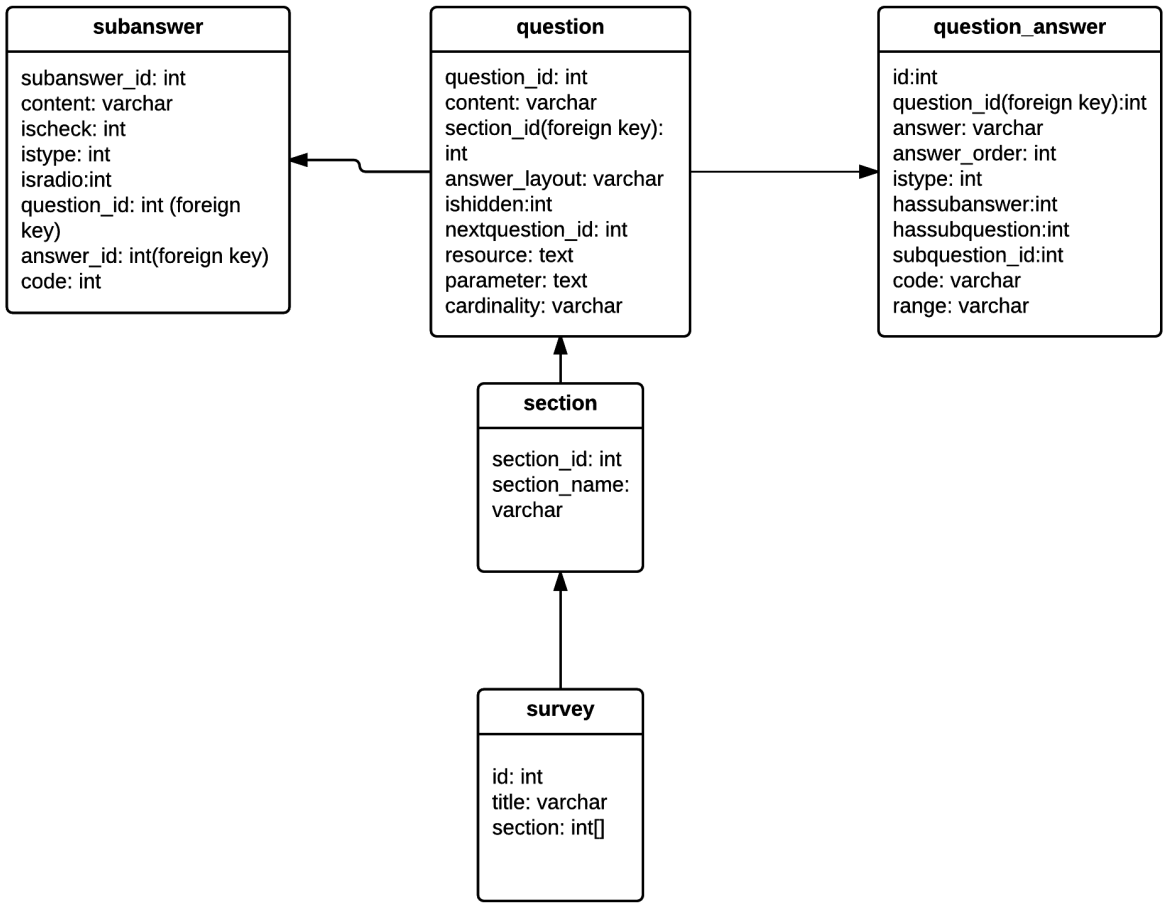
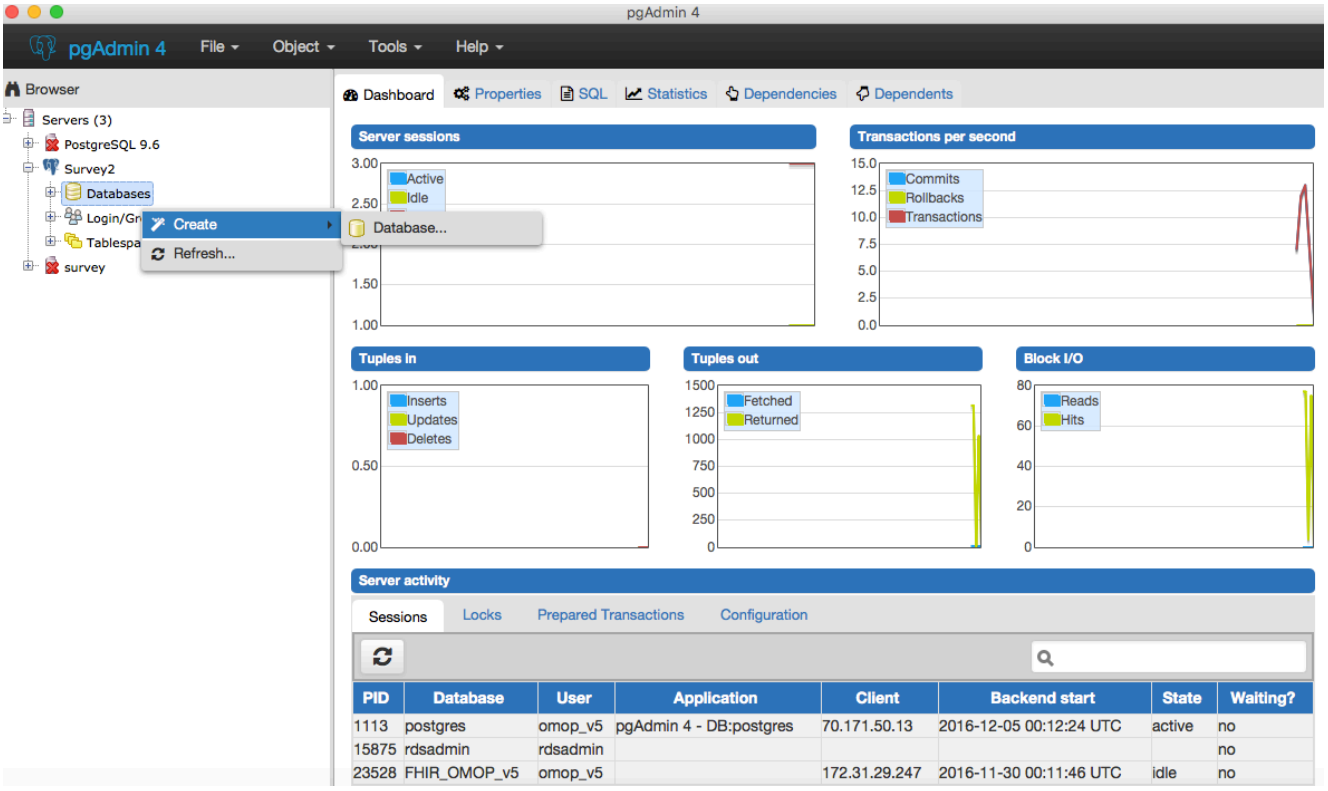


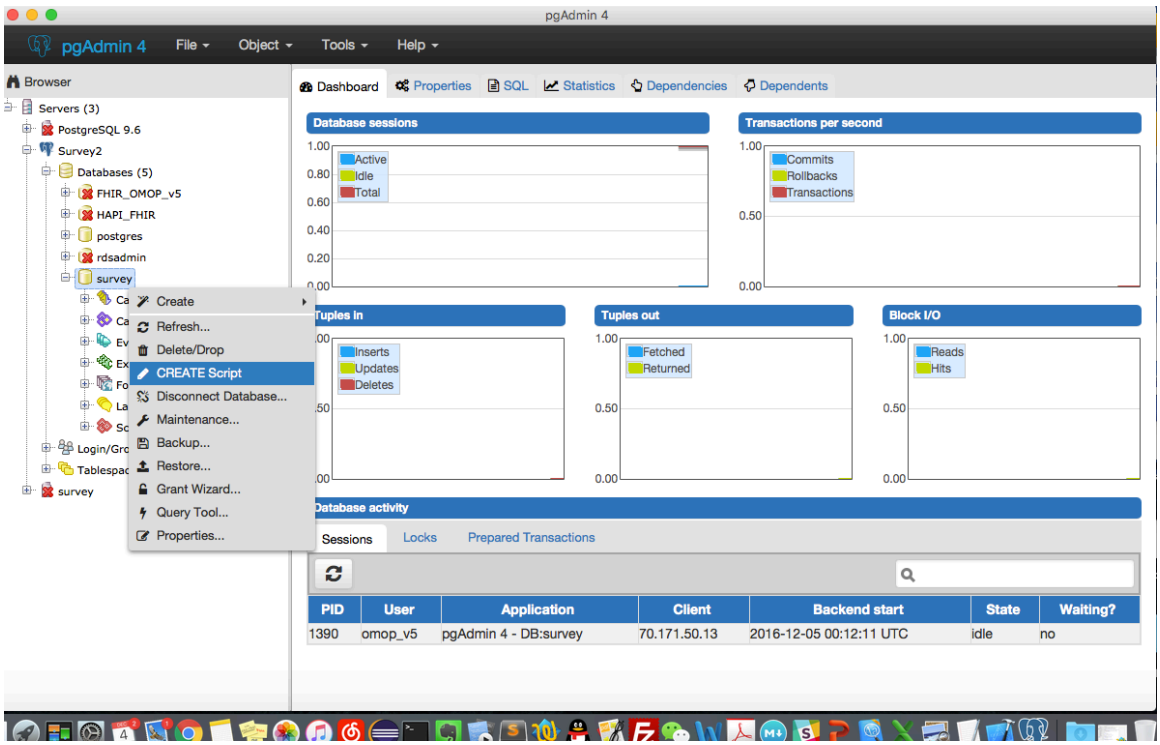
Fig Database schema

How to use the Database SQL files

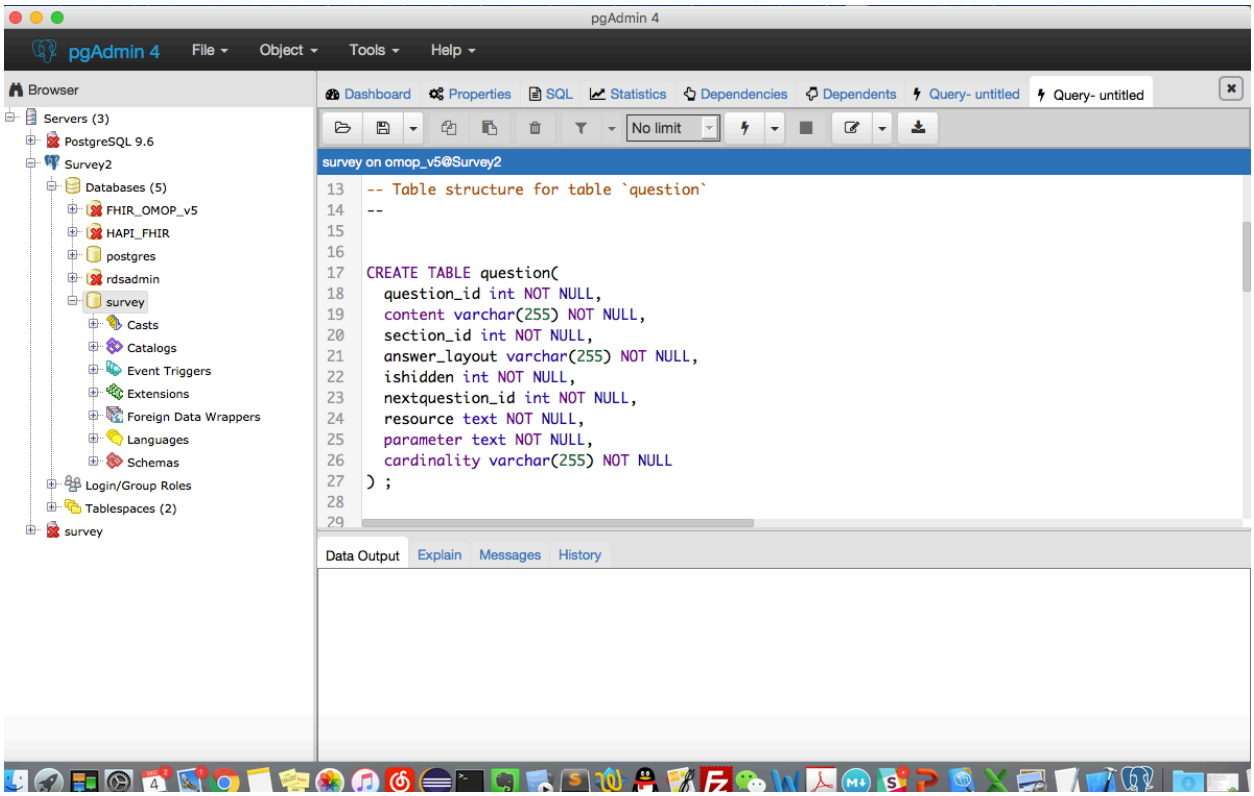
1. From the pgAdmin initial screen, create a new database called Survey by right clicking on the word Database, then selecting **Create**.



2. Then you can click **survey**, then right click on the word **Create Scripts** at next level menu.

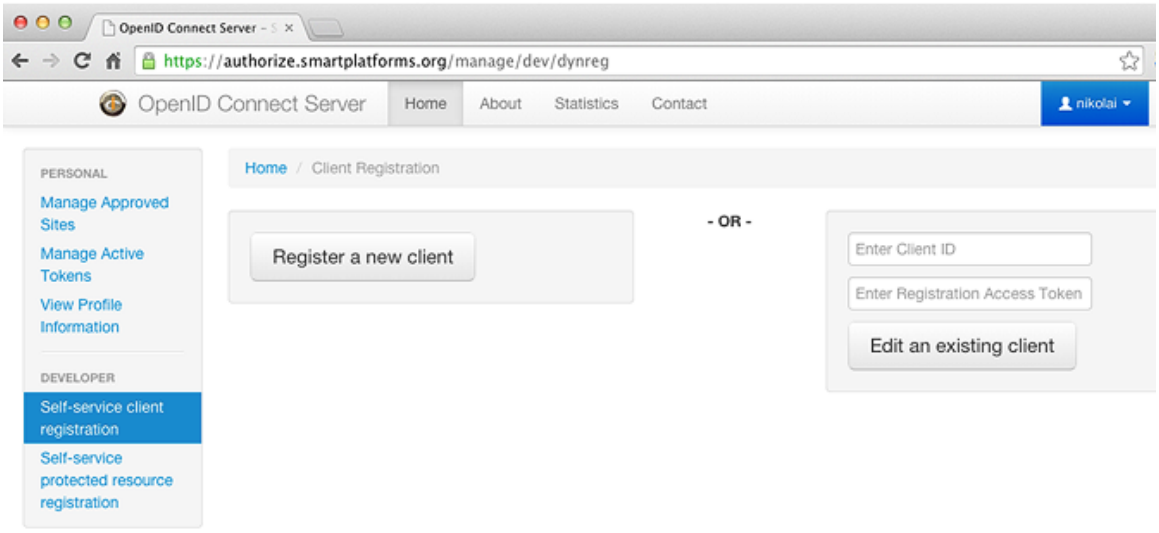


3. Run the scripts which is located at **(\CDC-Population-Health-Informatics-Framework\Final Project\Final Application\Application\Database)**. It will load all the required questions in your survey database.

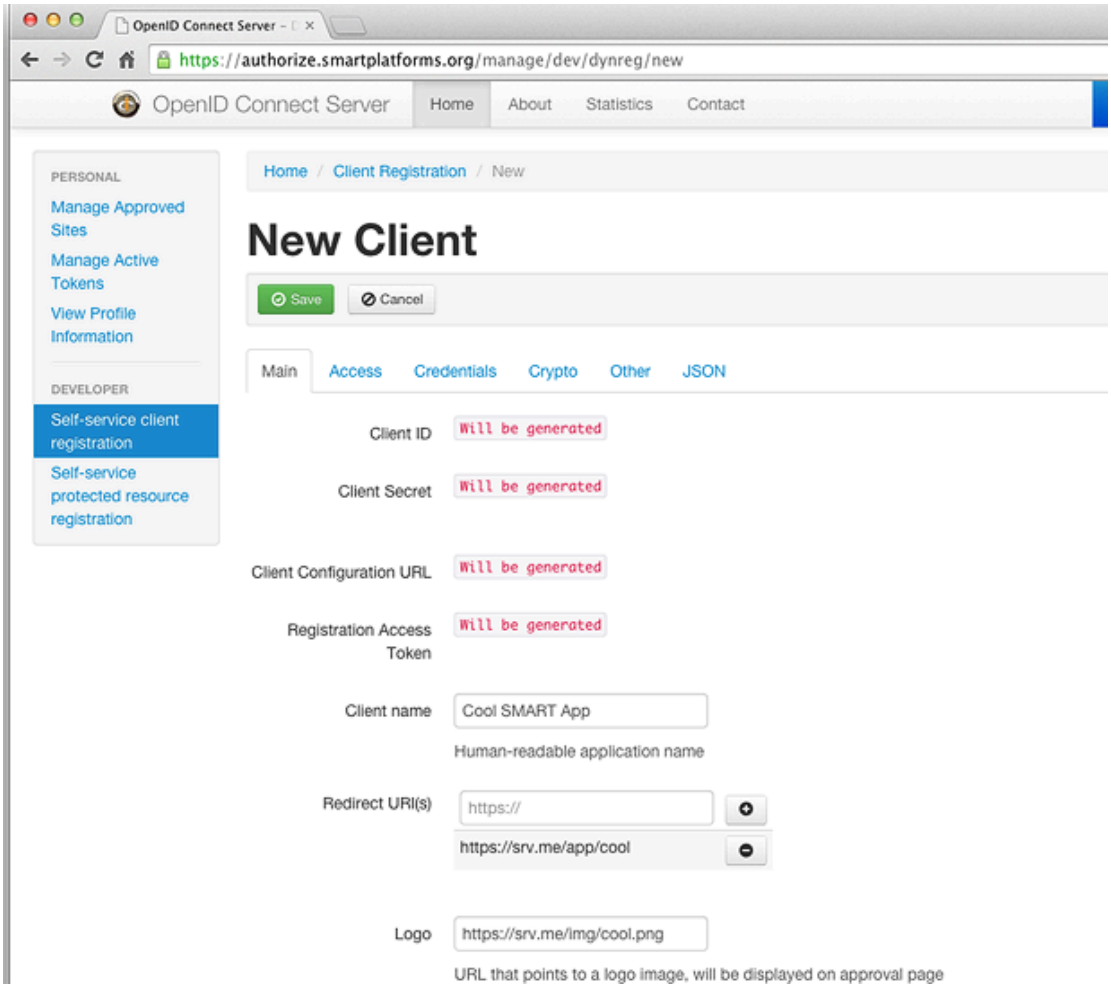


How to register a Smart on FHIR app

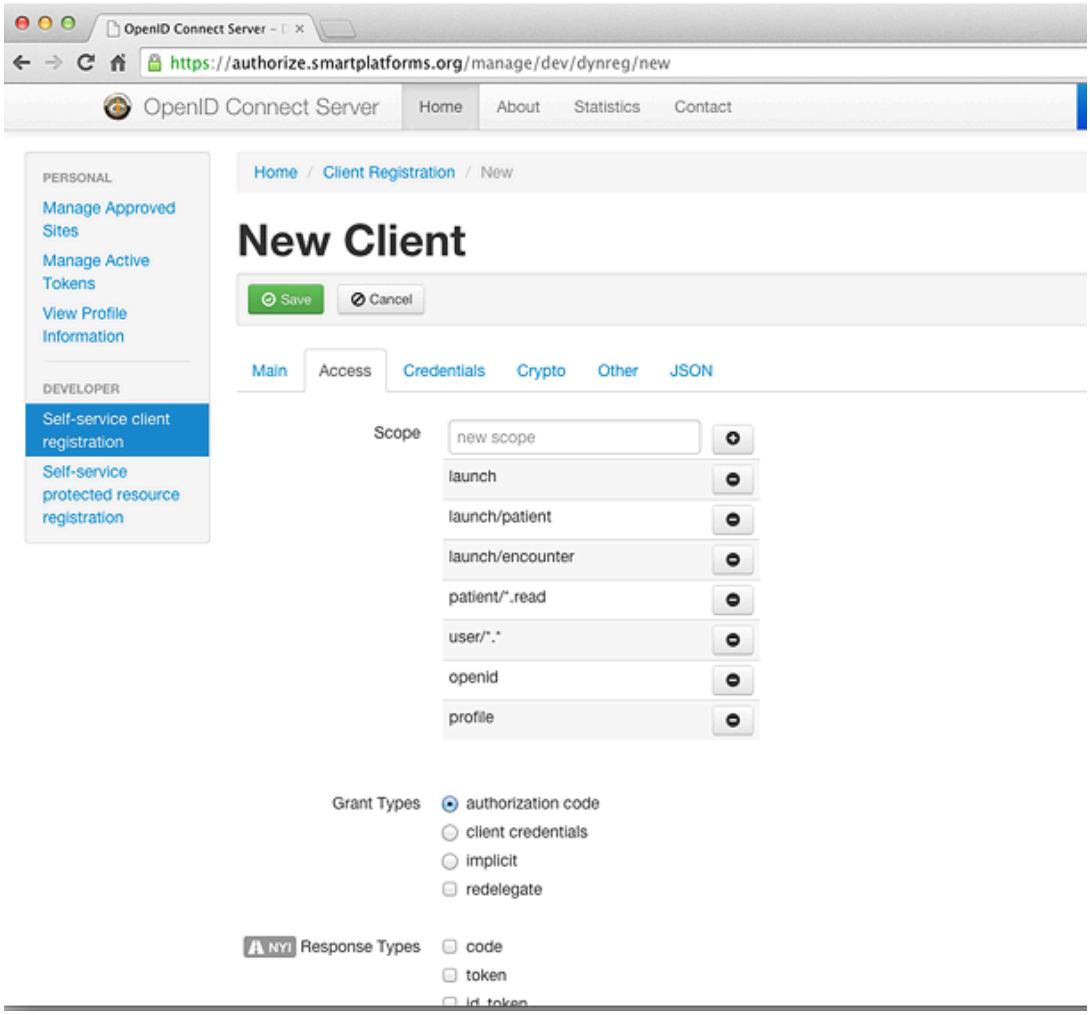
1. Log into the OpenID Connect Server file://localhost/at https/::authorize-dstu2.smarthealthit.org and click on Register a new client in Self-service client registration.



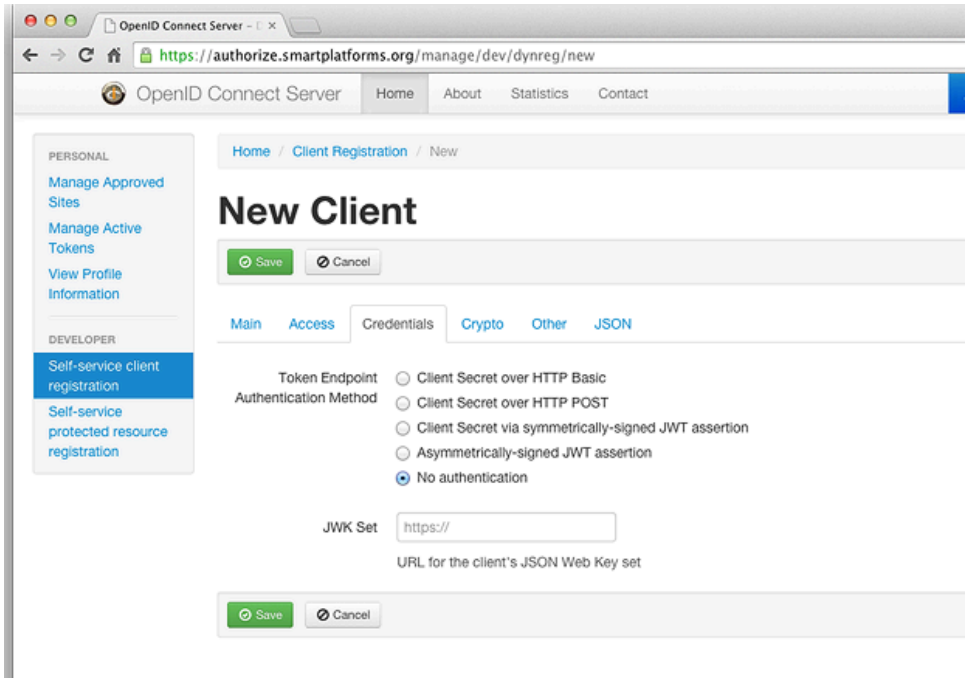
2. In the Main tab enter a user-friendly name for your app in the Client name box. Also, enter the main URI(http://{your-host-name}:8080/fhir-app/) of your app which the user client should visit after completing the app authorization process with the OpenID Connect Server. Finally, enter the URL of the app's logo that will be displayed to the user during the authorization process.



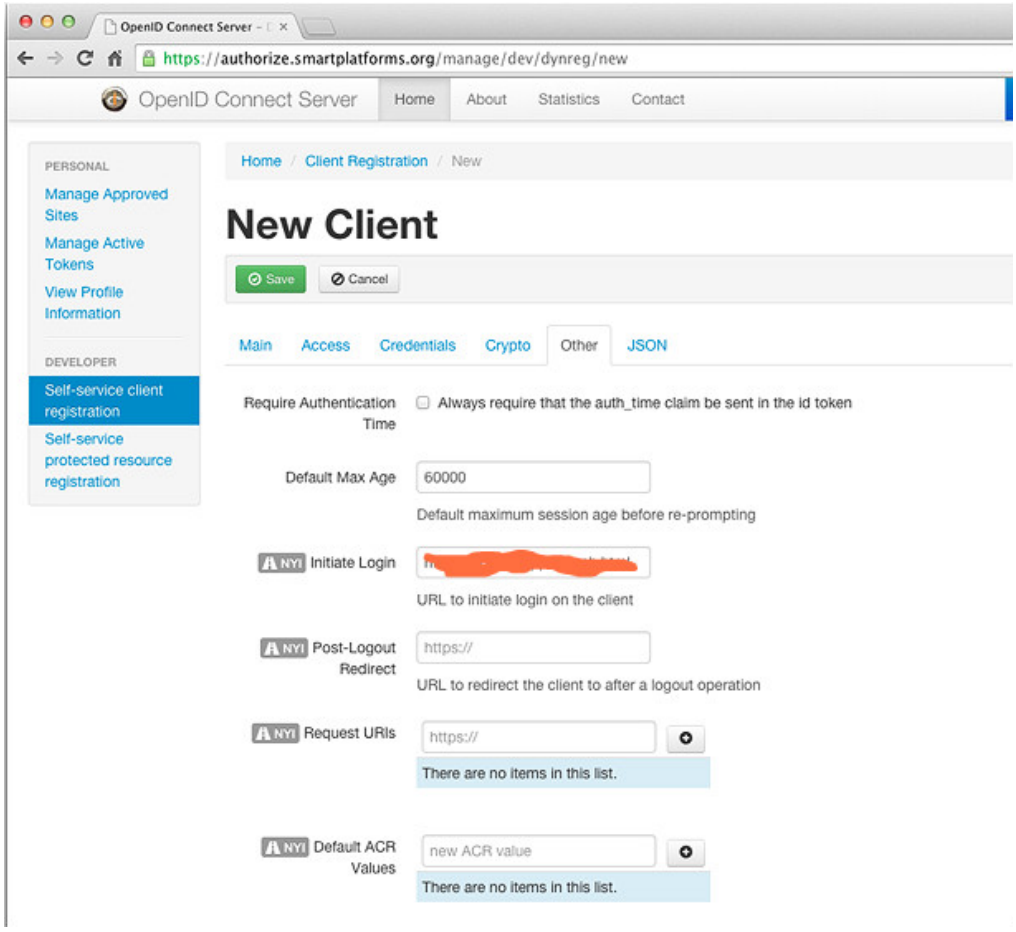
3. In the Access tab make sure that the app is granted the following scopes: launch, launch/patient, launch/encounter, patient/*.read, user/*.*, openid, profile. The code response type should be unchecked.



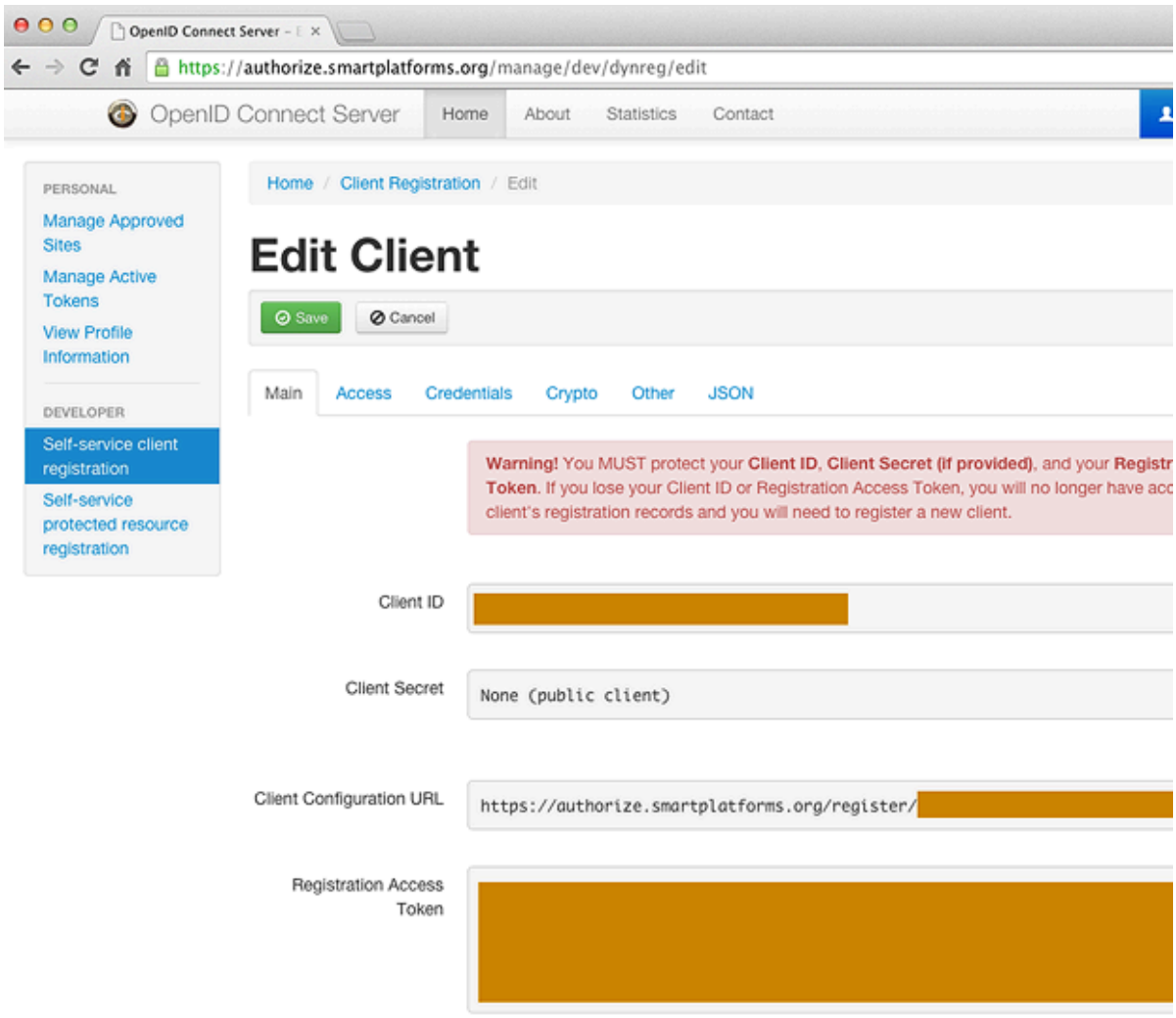
4. On the Credentials tab change the authentication method:
    a. If you're writing a Confidential Client, choose Client Secret over HTTP Basic
    b. If you're writing a Public Client, choose No authentication (Our method)



5. In the Other tab uncheck the Always require that the auth_time claim be sent in the id token and enter the URL(http://{your-host-name}:8080/fhir-app/) to your launch.html page in the Initiate Login box.



6. Click the Save button. The OpenID Connect Server will assign a Client ID and Registration Access Token to your self-service client. Make sure to copy them to a file on your local machine, because you will need them to update your client configuration.
7. You can use the Client ID and Registration Access Token for your self-service client to update or delete its record in the OpenID Connect Server.


OpenID Connect Server
https://authorize.smartplatforms.org/manage/dev/dynreg/edit
OpenID Connect Server
Home
About
Statistics
Contact
PERSONAL
Manage Approved Sites
Manage Active Tokens
View Profile Information
DEVELOPER
Self-service client registration
Self-service protected resource registration
Home / Client Registration / Edit
Edit Client
Save
Cancel
Main
Access
Credentials
Crypto
Other
JSON
Warning! You MUST protect your Client ID, Client Secret (if provided), and your Registr
Token. If you lose your Client ID or Registration Access Token, you will no longer have acc
client's registration records and you will need to register a new client.
Client ID
Client Secret
None (public client)
Client Configuration URL
https://authorize.smartplatforms.org/register/
Registration Access Token