Instructions to Setup and Run SUFU application

SUFU application contains 3 different modules.

1. SUFU backend Service (FHIR Server)
2. SUFU Mobile Application
3. SUFU Web Application

Below are the instructions to setup and run the SUFU application

Prerequisites:

1. Java 8
2. Apache Tomcat 7 or 8
3. PostgresSql Database 10.x
4. Maven 3.3.x
5. GIT
6. NodeJS

# Clone the Repository

Clone the respository using the below command in command prompt

git clone <https://github.com/onc-healthit/crn.git>

# Installation Instructions

## Postgres Configuration:

Load Schema and data into database

Create the database by running the below command in command prompt

$ createdb -h localhost -p 5432 -U postgres <database\_name>

Database file SUFU-db.xml will be in the cloned repository. Load Schema and data using the below command.

$ psql -U postgres -d <database\_name> -f <Path to cloned repository>/SUFU-db.sql

## Create Build:

### Build SUFU Backend Service:

Change the database configurations in the file application.properties located under src/main/resources

jdbc.url=jdbc:postgresql://localhost:5432/<database\_name>

jdbc.username=<username>

jdbc.password=<password>

Then navigate to SUFU backend service directory and run Maven build to build application war file.

$ mvn clean install

This will generate a war file under target/sufu.war. Copy this to your tomcat webapp directory for deployment.

##### Start Tomcat Service

If the tomcat is started successfully then you should be able to access below endpoints

GET END POINTS:

1.http://localhost:<tomcatport>/<Service\_name>/getcategories -- Fetches all the categories available in the database.

2.http://localhost:<tomcatport>/<Service\_name>/fhir/Questionnaire -- Fetches all the Questionnaire resources available in the database.

3.http://localhost:<tomcatport>/<Service\_name>/fhir/Questionnaire/9 -- Fetches specific Questionnaire resource based on the Id.

4.http://localhost:<tomcatport>/<Service\_name>/fhir/QuestionnaireResponse -- Fetches all QuestionnaireResponse resources available in the database.

5.http://localhost:<tomcatport>/<Service\_name>/fhir/QuestionnaireResponse/1 -- Fetches specific QuestionnaireResponse based on the Id.

POST APIS:

1.http://localhost:<tomcatport>/<Service\_name>/fhir/Questionnaire -- Creates given Questionnaire resource with unique Id.

2.http://localhost:<tomcatport>/<Service\_name>/fhir/QuestionnaireResponse -- Creates QuestionnaireResponse resource with unique Id.

### Build SUFU Mobile application:

Navigate to SUFU-Ionic directory and run the below command to build the mobile application.

$ npm install

This will download all the necessary dependencies into node\_modules directory.

Then update the configuration settings in src/providers/constent-service.ts file to connect with the backend service deployed in tomcat.

base\_url= “http://localhost:<tomcat\_port>/<service\_name>

Run the below command to start and run the SUFU Mobile application.

$ ionic serve

Once the application is started, it can be accessed from the browser using the below URL.

http:localhost:8100

### Build SUFU Web Application:

Navigate to SUFU-Web directory and run the below command to build the web application.

$ npm install

This will download all the necessary dependencies into node\_modules directory.

Then update the configuration settings in src/app/config.ts file to connect with the backend service deployed in tomcat.

base\_url= “http://localhost:<tomcat\_port>/<service\_name>

Run the below command to build the SUFU Web application.

$ ng build

Once the application is build successfully, you can see ‘dist’ directory under SUFU-Web. Copy the Contents of SUFU-WEB to Tomcat/Webapps/SUFU-WEB directory. Then you should be able to access the web application using the below URL

http://localhost:<tomcat\_port>/SUFU-WEB