Application Manual

CS6440 Fall 2018 – FHIR Buffer Overflow

Utilizing FHIR Bulk Data API for Real-Time Public Health Needs Assessments

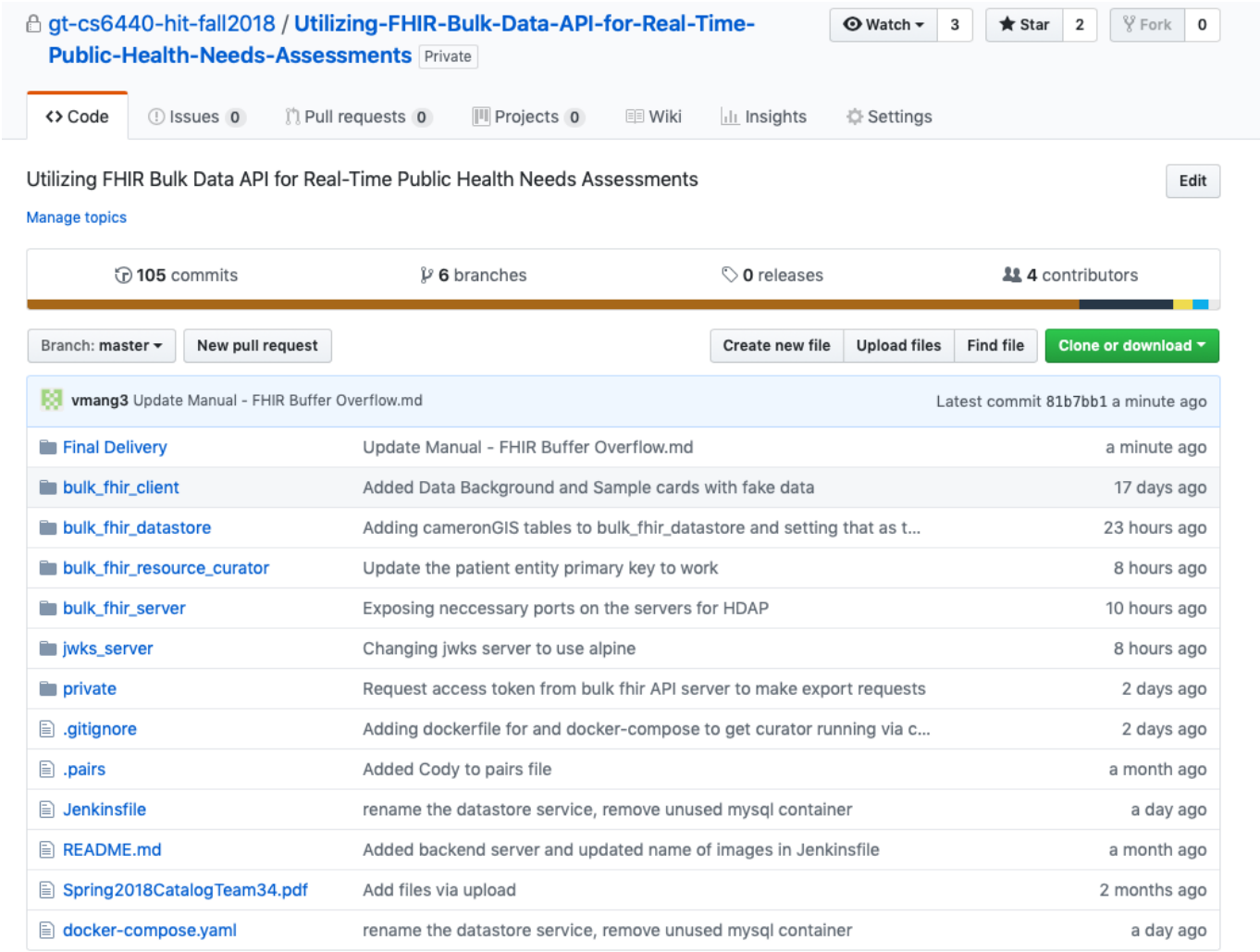
Project 34

Team Name: FHIR Buffer Overflow

TA Mentor: Taylor Startin

External Mentors: Johnny Bender

[Github Repository Link:] https://github.gatech.edu/gt-cs6440-hit-fall2018/Utilizing-FHIR-Bulk-Data-API-for-Real-Time-Public-Health-Needs-Assessments



Team Members	GT Username	Email
Varun Behl	vbehl3	vbehl@gatech.edu
Pauline Sho	psho3	psho3@gatech.edu

Team Members	GT Username	Email
Chulmin “Simon” Lee	clee702	clee702@gatech.edu
Cody Hutchens	chutchens3	chutchens3@gatech.edu
Van Mang	vmang3	vmang3@gatech.edu
Vijay Pothona	vpothana3	vpothana3@gatech.edu

For a complete step by step instructions please refer to special instruction below

Special Instrcutions

Overview of the Project

The overal project was for us to use a newly specified the new FHIR Bulk Data API and use that health data from the bulk export to generate Health Needs Assessments.

Application purpose

The application will be used by public health agencies and healthcare organizations to focus on implementing the solutions to address the identified needs

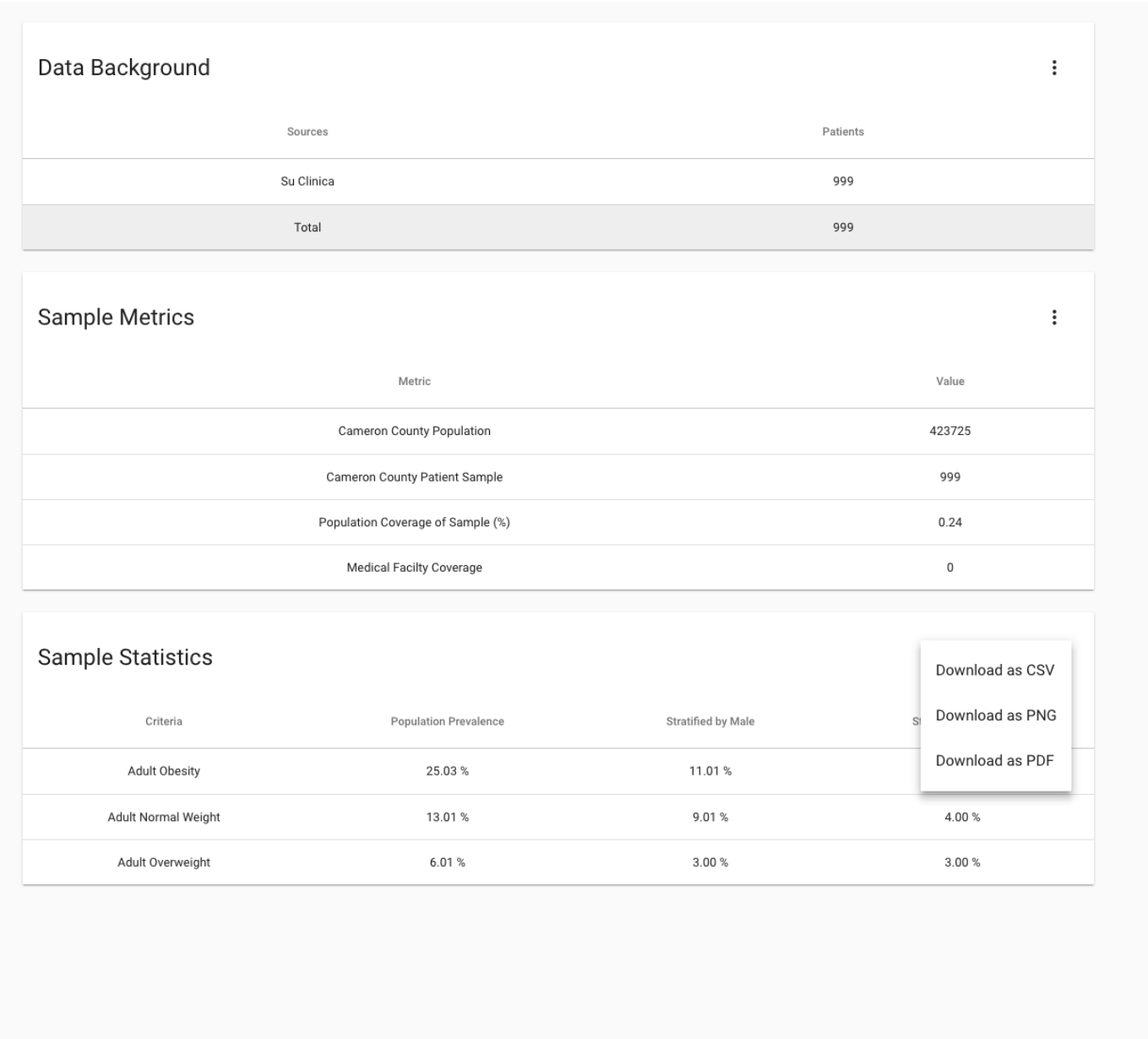
Functionality

- Curation Aspect
- Frontend UI
- FHIR Server API
- Authentication

Design

Data Background provides us details on the data sources and how many patients information we have for each source. We are currently using 10 sources in production Sample statistics provides

the prevalence satisfied by sex and age groups of the conditions



Data Background

Sources	Patients
Su Clinica	999
Total	999

Sample Metrics

Metric	Value
Cameron County Population	423725
Cameron County Patient Sample	999
Population Coverage of Sample (%)	0.24
Medical Facilty Coverage	0

Sample Statistics

Download as CSV
Download as PNG
Download as PDF

Criteria	Population Prevalence	Stratified by Male	S
Adult Obesity	25.03 %	11.01 %	
Adult Normal Weight	13.01 %	9.01 %	4.00 %
Adult Overweight	6.01 %	3.00 %	3.00 %

A graphical representation that provides us information about incidence calculation of obesity

Sample Statistics

Criteria	Population Prevalence	Stratified by Male	Stratified by Female
Adult Obesity	25.03 %	11.01 %	14.01 %
Adult Normal Weight	13.01 %	9.01 %	4.00 %
Adult Overweight	6.01 %	3.00 %	3.00 %