

# 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>**

The screenshot shows the GitHub repository page for 'Utilizing-FHIR-Bulk-Data-API-for-Real-Time-Public-Health-Needs-Assessments' under the organization 'gt-cs6440-hit-fall2018'. The repository is private. It has 3 watchers, 2 stars, and 0 forks. The repository is managed by 'vmang3'. The page shows 105 commits, 6 branches, 0 releases, and 4 contributors. The 'master' branch is selected. A 'New pull request' button is visible. The file list includes 'Final Delivery', 'bulk\_fhir\_client', 'bulk\_fhir\_datastore', 'bulk\_fhir\_resource\_curator', 'bulk\_fhir\_server', 'jwks\_server', 'private', '.gitignore', '.pairs', 'Jenkinsfile', 'README.md', 'Spring2018CatalogTeam34.pdf', and 'docker-compose.yaml'. The latest commit is '81b7bb1' from 'vmang3' titled 'Update Manual - FHIR Buffer Overflow.md' made 'a minute ago'.

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

[Special Instrcutions](#)

## Overview of the Project

The overall 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 Facility Coverage	0

Sample Statistics

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

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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 %
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