

# Special Instructions

## 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

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[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 'gt-cs6440-hit-fall2018 / Utilizing-FHIR-Bulk-Data-API-for-Real-Time-Public-Health-Needs-Assessments'. The repository is private and has 3 watchers, 2 stars, and 0 forks. The main navigation bar includes links for Code, Issues (0), Pull requests (0), Projects (0), Wiki, Insights, and Settings. Below the repository name, there is a section for 'Utilizing FHIR Bulk Data API for Real-Time Public Health Needs Assessments' with an 'Edit' button. A progress bar shows 105 commits, 6 branches, 0 releases, and 4 contributors. The 'Branch: master' dropdown is set to 'master', and there is a 'New pull request' button. The 'Create new file', 'Upload files', 'Find file', and 'Clone or download' buttons are visible. The file list includes 'vmang3 Update Manual - FHIR Buffer Overflow.md' (latest commit 81b7bb1 a minute ago), 'Final Delivery' (Update Manual - FHIR Buffer Overflow.md, a minute ago), 'bulk\_fhir\_client' (Added Data Background and Sample cards with fake data, 17 days ago), 'bulk\_fhir\_datastore' (Adding cameronGIS tables to bulk\_fhir\_datastore and setting that as t..., 23 hours ago), 'bulk\_fhir\_resource\_curator' (Update the patient entity primary key to work, 8 hours ago), 'bulk\_fhir\_server' (Exposing neccessary ports on the servers for HDAP, 10 hours ago), 'jwks\_server' (Changing jwks server to use alpine, 8 hours ago), 'private' (Request access token from bulk fhir API server to make export requests, 2 days ago), '.gitignore' (Adding dockerfile for and docker-compose to get curator running via c..., 2 days ago), '.pairs' (Added Cody to pairs file, a month ago), 'Jenkinsfile' (rename the datastore service, remove unused mysql container, a day ago), 'README.md' (Added backend server and updated name of images in Jenkinsfile, a month ago), 'Spring2018CatalogTeam34.pdf' (Add files via upload, 2 months ago), and 'docker-compose.yaml' (rename the datastore service, remove unused mysql container, a day ago).

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## Technical Requirements

### Install docker

On MacOS, `brew cask install docker`

### Install docker-compose

### How to run the Application

#### Step 1: Run docker

On MacOS, click on the Docker app with the whale icon.

#### Step 2: Clone the repository

```
git clone https://github.gatech.edu/gt-cs6440-hit-fall2018/Utilizing-FHIR-Bulk-Data-API-for-Real-Time-Public-Health-Needs-Assessments.git
```

#### Step 3: Change into the server directory

```
cd bulk_fhir_server
```

#### Step 4: Run mvnw

```
./mvnw package
```

#### Step 5: Change into the curator directory

```
cd ../bulk_fhir_resource_curator/
```

#### Step 6: Build gradle

```
./gradlew build
```

#### Step 7: Go back to root directory

```
cd ..
```

#### Step 8: Start/build docker

```
docker-compose up -d --build
```

#### Step 9: View results

Launch <https://cs6440-f18-prj20.apps.hdap.gatech.edu/> on your browser.

(Note: Since we use docker for everything (including the database), every time we push, it rebuilds the data. It takes around 2 hours or so to get the curator to get all the source systems data normalized.)