

Concussion and Traumatic Brain Injury in Pediatric Patients: A CDS App

This web-based app provides clinical decision support for the area of Mild Traumatic Brain Injury (mTBI) in children and adolescents. It provides an extensible CDS framework which can be expanded with new rules as well as a customizable Angular-based user interface.

The app was started in the Fall of 2017 as a semester project for Georgia Tech's Introduction to Health Informatics course and was greatly informed by the input of our mentors (listed below).

Development Team

Semester team name: FHIR Starters

- Jan Marie Andersen (QA, Developer)
- Darryl Buswell (Project Manager)
- Spencer Knight (Developer)
- Lamar Phillips (QA)
- Brian Wells (Developer)

Source Code Repository

Source code for the project may be found on Georgia Tech's GitHub site at the following link:

<https://github.gatech.edu/gt-hit-fall2017/CONCUSSION-AND-TRAUMATIC-BRAIN-INJURY-IN-PEDIATRIC-PATIENTS>

Repository Structure

The following describes major files and directories in the project repository.

- **fhirStartersApp/**
 - **fhirStartersApp/**
 - [Project source code \(web-based client app is located under the **ClientApp** directory, all other files and directories are server-side code\)](#)
 - **fhirStartersApp.Test/**
 - [Test classes](#)
- **Final Delivery/**
 - **catalog.pdf**
 - [This catalog file](#)
 - **catalog-src/**
 - [Source files for this catalog](#)

- **dev-manual-src**
 - [Source files for the Dev Manual](#)
- **Dev Manual.pdf**
 - [Developer-specific stuff](#)
- **Final Gantt Chart - FHIRStarters.pdf**
 - [Gantt chart at time of project submission](#)
- **Logic/**
 - [CDS rule logic flowcharts and supporting files](#)
- **Manual - FHIRStarters.pdf**
 - [User Manual](#)
- **manual-src/**
 - [Source files and assets for the User Manual](#)
- **Research/**
 - [Research articles used for guiding creation of CDS logic](#)
- **Special Instructions - FHIR Starters.md**
 - [Source for Special Instructions](#)
- **Special Instructions - FHIR Starters.pdf**
 - [Special Instructions \(for running/demoing the app\)](#)
- **sample_data/**
 - [Dummy data for the FHIR server](#)