# Project Proposal October 5, 2019

## Team Name

Team Steph

## Team Members’ Name

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## Business Opportunity/Problem

**Problem**: Clinicians cannot select the correct imaging study for an indication without discussion with a radiologist who may not be available to discuss the study being ordered.  
**Proposal**: To build an application that would enable searching of the appropriate imaging study (or studies) for a specified indication using the American College of Radiology Appropriateness Criteria.

## Users of Product

Clinicians

## High Level User Requirements

This application will be web-based. Therefore, the only user requirement will be internet connection and a browser to navigate to the site.

## High Level Database Architecture

The effectiveness of this project is reliant on efficient search capabilities. Since the main objective is to make this information easily accessible to physicians, the database structure will be designed in a way that ensures that. This project will require some data collection and organization on my end, as there is no API to retrieve the information needed to create my database. Therefore, a more elaborate description as to how I will design my database cannot not be provided until I have a better idea of what the data I’m going to use looks like. In any case, I will be creating excel files including the data to be stored within my database and I will import it that way. In order to give users some leeway in terms of what search terms they choose to use, I will need to incorporate some sort of thesaurus or table of related terms. I will be using Microsoft SQL Server and am unsure as to what permissions I will have under the school’s system, so I may not be able to modify the dictionary and will likely need to create a table and connect it in a way that serves the same purpose. Information that I know will need to be stored in my database is search terms, imaging study names, ratings, and radiation levels.

## Technology



