

ImageMed - Problem Analysis

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Purpose

There are three main goals that this project will accomplish:

#1: Allow medical professionals to include important data on medical images

Difficulty: Medium

Medical professionals want to take notes on specific portion(s) of their medical images denoting certain characteristics or problems. Consequently, they can look at the image in the future and have a clearer understanding of their notes related to the image.

#2: Allow medical professionals to share collective knowledge

Difficulty: Easy/Medium

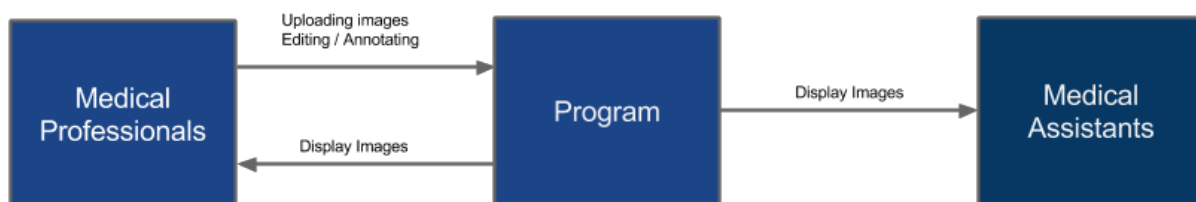
Medical professionals want to collectively work together in sharing their knowledge when analyzing an image, allowing for more collaboration and teamwork.

#3: Allow medical professionals to find relevant medical images

Difficulty: Hard

Medical professionals want to find related medical images to their desire searches so they can compare images and draw conclusions from those comparisons.

Context



In our project, there will be two groups interacting with our program: (1) medical professionals and (2) medical assistants. Medical professionals hold most of the functionality and data, so they will be the ones uploading images, editing them, and annotating them. Medical assistants generally only help their patients, so they will only have viewing access of the images with their annotations.

Concepts

1. Annotations – writing notes on a portion of the image (related to purpose 1)
2. Tagging – placing a keyword describing a detail of the image (related to purpose 1, 2, 3)
3. Images – the medical images (related to purpose 2)

Data Model

