

# Project Eir

## Problem Statement

Hospital prices within the United States is all over the place. An X-Ray on your knee at one hospital could cost \$300, where a hospital down the street it could cost \$80. Some of these hospitals would have some of their services prices public available on their websites, but most of the time those prices could be years out of date, if they were updated within a few years they would be sometimes hard to find them on the websites. But in 2018 the Centers for Medicare & Medicaid Services (CMS) created a ruling which all hospitals within the United States must update their public prices at updated at least annually.

## How does it impact on group?

With this ruling by the CMS it will now allow patients to go onto a hospitals website to see the prices of a server and allow them to shop around and compare with other hospitals to figure out which is cheapest for a said service. The ruling is great news for everyone who wants to spend a little less money on procedures or services they have to pay out of pocket, but sadly a lot of these files are giant csv, excel which could be thousands of rows long or complex access files and a lot of the their unsorted and use the true medical terms for said procedure. Because of this most people don't want to waste time looking up this info or don't even know about the CMS ruling.

## Draft Solution

Project Eir<sup>1</sup> will be a website or application that people can use to compare hospitals within a given range of a given area for a procedure that the user wishes to look up. It will contain all pricing info, translated medical terms for each hospital and output it in an easy to read way for users to understand. It will even allow users to rate the hospital as a whole or doctors that preform the said procedure.

## Financial (Prototype)

Making user data anonymous and selling to other companies. Partnering up with hospitals and sell access to the statistical data to them. Selling API access to others for their own usage in their applications.

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<sup>1</sup> Eir is the Norse goddess of healing/medical skill.

## Timeline

Week 1: Create Proposal

Week 2: Turn in Proposal that Monday and start compiling all pricing info from hospitals.

Week 3: Start processing all data from hospitals and other medical terms into a database and start working on basic functionality for the website/application.

Week 4: Continue working on functionality for the project and flush out any data missing from the hospitals or any other medical terms or other pricing factors.

Week 5: Halfway done with class, stand up meeting of showing off what we have at this point.

Week 6: Start working on user reviews and compiling list of doctors that would at a said hospital for user review system.

Week 7: Continue working on functionality for application.

Week 8: Continue working on functionality for application.

Week 9: Continue working on functionality for application.

Week 10: Week before final, may show off projects this week or maybe finals week which is week 11.

Each Thursdays will be update for everyone working on the project and to see how their process is going and if they need anything from anyone else.

## Expected Outcome

Expected outcome of this project is at best to have a website/application to show prices for a searched procedure and their prices to a user, so that they can compare which place has better pricing for them. Have a easy to use API build from GraphQL.

## Future Recommendation