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| Project Eir  Team Pantheon |
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## Problem Statement

Hospital procedure costs around the United States are all different from hospital to hospital, there wasn’t a standard till 2018 when the Centers for Medicare & Medicaid Services (CMS) passed a ruling to mandated all hospitals around the United States to have their procedure costs posted and updated once a year onto their websites. As of now there doesn’t exist one singular service that combines all of these data points to one location; the goal of Project Eir[[1]](#footnote-1) is to help interpret information to people with medical needs so that they may find the most cost efficient operation.

## Background

A hospital procedure like a Knee X-Ray at once hospital could cost $300, but another hospital a few miles away could have that same Knee X-Ray procedure and only cost $80. 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 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.

## Obstacles

There are a lot of obstacles we can already see and there are going to be many hidden ones will find on our way. A few of these obstacles we can see now are:

* Data gathering of procedures and their cost.
* Sorting and sifting through the data with an algorithm.
* Creating a functional website with a simple user interface.
* Generate accurate results based off user input and different hospitals labeling.
* Creating a restful API and a stable database to store our information.
* Ensuring proper procedures are easily searched.

1. Eir is the Norse goddess of healing/medical skill. [↑](#footnote-ref-1)