

ROBOHACK 1.0

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Idea :

We aim to build a dynamic mapping system (using 'Google Maps Javascript API') that can be used by the government or private sector for getting the best location for building medical camps and hospitals at best-suited places.. Users will enter/choose from the options provided for city/state, and will get the results on a map. We have provided a demo section in our webpage to display a working system for nearby regions of Dallas, Texas, USA. The idea is unique in itself, as opening temporary or permanent medical centers at the right place for now is the basic aim so that for any sort of treatment no one has to travel long distances and can be cured at nearby places itself and medical services can reach a large number of people at same time. We further aim to include other features: **geological** condition based results, **property_price comparison**, **access** to owner's information (a *premium feature*) and property's **present condition**.

Implementation :

Based on '*Haversine Formula*'(to calculate distance between two latitudes and longitudes), we have developed a system to get the best available vacant properties for building new hospitals. The system is integrated with a web page to display the locations on a map. Important Tech Stack used are as follows:

Selenium : for scraping data of the properties and hospitals.

json : to access the scraped data

flask, Flask_(Bootstrap, WTF, SQLAlchemy, Sqlite3) : as backend framework for web application

Potential Customers :

It provides ultimate **benefits to citizens** in the form of faster medical services in areas with a few or no such services nearby. Also, **construction companies** and **government authorities** can use it to get the best deals and the right place to build new hospitals or set up medical camps. With the added features, comparison between properties can be done based on all its past and present conditions, thus saving time of onsite property inspection.

Github Repository Link: https://github.com/Apoorve73/Where_to_Build