

Project Proposal - Team 111

Project Title - Illness and Injury Guide

Dataset:

- The dataset is from Kaggle and is based on chronic illness, symptoms and triggers. Attributes such as age, gender, country, and symptoms are recorded. Information regarding treatment, causes of illness, and date of identified illness is recorded. ([Chronic illness](#))

Functions of web application:

- User registration page - the user can create an account and enter their age, gender, and country
- Search page - the user can select filters such as location or age to identify what illness they may be more exposed to
- Blog page - users can share previous diagnosis and methods used to treat the illnesses
- Map page - the user can visualize illness distribution based on different locations in the world

Creative component:

- We are planning on incorporating an “Illness detector” that allows users to input their symptoms and determine potential illness they may have. For each symptom a list of diagnosis will be given from which users can look further into on their own.
 - The site can generate a similarity score between the data the user provides and the typical symptoms/age/sex of various illnesses. This will allow us to indicate to users some possible illnesses.
- We are also planning on including a Health planner where users can input health goals on a calendar and see a summary of the goals they have accomplished. They can also potentially view other user’s goals and give them encouragement.
- We are planning on including this creative component by implementing a search feature that allows users to input their symptoms and information, and returns a list of the top 5 most likely illnesses. This would then provide additional links to more information about each illness. This would allow for users to get a unique ability to identify potential causes of ailment.

Project Summary:

- Our team will be developing a web application similar to Mayo Clinic's symptom checker, where users can enter their symptoms and determine the illness and severity of their symptoms.
- The application is useful as it will provide users insight into possible conditions/illnesses they may be suffering from. This will allow for users to conduct more research into their potential illnesses
- The app is similar to a few other applications online (Ada, Mayo Clinic), that use symptoms to identify illness. Our application is different in that it aims to show illness data in a more general way, and uses factors other than just symptoms.
- Users will be able to create accounts where they can post about their illness and have others answer questions. The goal is to have people who have suffered from an illness help other people who suffer from the same illness.
- We can update the original database with a database of new users.
- The original database has a lot of holes in it, these can be updated or deleted to better our data

Project Description:

- Our goal is to create an application for people who are struggling with an illness/pain and wish to better understand their situation. This will be provided through an illness search page, blog posts, and maps. The application will help users better understand what they may be suffering from, and where they can find more information.

Website's Functionality stages 4 and 5

- Create users with information and symptoms
- Delete users from our database and delete incomplete entries from the database
- Update a users symptoms and update empty data if it is salvageable
- Search for users with a specific diagnosis can have their symptoms searched

Login

Username:

Password:

[Sign-up](#)

Illness and Injury Guide

Maps



▼ USA

▼ Male

▼ Symptoms

▼ > 18

▼ # of Cases

Illness and Injury Guide

Search

Potential Illness

- Headache
- Cold
- Fever
- Flu

▼ Location

▼ Gender

▼ Age

▼ Symptoms

Illness and Injury Guide

Blog

A _____

C _____

W _____

K _____

I experienced ____ recently. Turns out that ____
is very helpful in reducing symptoms!

Work Distribution: (subject to changes)

Programming Languages: For the front end of our project, we will be using React. For the backend, we will implement SQL to update, delete, and insert entries to the database.

Date	Task	Roles
2/5/23	Project Proposal	Everyone
2/21/23	Database Design Finalized	Everyone
3/10/23	User Login Ability	Riley (front end/backend) Dimple (front end/backend)
3/10/23	Display illness map	Dimple (front end) Prathmesh (front end)
3/25/23	Blog page	Prathmesh (front end/backend) Riley (front end/backend)
4/10/23	Search Page	Everyone