Web Development – Mr. Turner

Project – Human Online Diagnostic Tool (HODIT)

Project Overview

Welcome to your Human Online Diagnostic Tool (HODIT). HODIT serves the public as a means of quickly diagnosing a problem with your body based on the symptoms and their locations. As the HODIT programmer, it's your job to build this website from the ground up.

Display

The list below includes the essential elements of the page.

- The page will need a ***medical*** image of the human body.
    - The user should be able to select either an image of a male or a female.
- A series of dropdowns will allow the user to input various symptoms.
    - The dropdowns will be dynamically visible and filled with relevant information based on user selections.
- A diagnostic readout based on the symptoms.
    - The diagnostic readout should include both possible problems and possible solutions/treatments.
- A button will allow the user to start over.

Functionality

This web page functions entirely based on a point and click interface.

You will need a complex series of data that will correspond to the potential problems and diagnoses. You will have to research and collate this data on your own. Your data does not have to be medically extensive (you're not a doctor), but the design of the data in your text or Javascript file is important to the project.

The page will start with an image of the human body and an empty diagnostic readout. The user should be able to toggle the image between male and female.

When the user clicks on a part of the body, a drop down will appear with a list of potential symptoms for the selected body part.

In order to make this selection possible, your page will need to be able to differentiate between different parts of the image. This can be accomplished a number of different ways. The most straightforward is an HTML image map. Be careful, though, because these are directly affected by sizing and resolution.

The drop down will be populated based on the image selection. For example, if the user selects the head, your page would send a request to the server with "head" as the information. It

would look up "head" in your data files and find, for example, "pain, pressure, dizziness, drowsiness, etc...". It would populate the dropdown with those symptoms. Each of those symptoms may either lead to a diagnosis, which would then appear in the diagnostic readout, or further symptoms. Further symptoms would appear in new dropdowns.

Enhancements

- Store patient information
    - Create a user account for each patient and include the following information.
        - Name
        - Username
        - Password
        - Email Address
        - All Diagnoses
    - Users should be able to log in and access their history.
- Cumulative Care
    - For your stored patients, check their history and suggest a possible link between diagnoses.
    - Suggest treatment that might discontinue chronic problems.