WebDoc, The Online Doctor That Suits Everyone!

Project Overview:

Programming Passion Project

Objective: The purpose of this assignment is to encourage students to explore their interests in programming and develop a small-scale passion project using their preferred programming language. Students will not only demonstrate their coding skills but also showcase their creativity, problem-solving abilities, and understanding of programming concepts.

Introduction:

Brief introduction to the chosen programming language and its advantages.

I chose JavaScript for my programming language. JavaScript can easily integrate with other web technologies, such as the ones that I was previously introduced to (HTML and CSS).

JavaScript allows me to add my creative and humorous side into the programming world.

Coding in JavaScript allows me to add interactive features to my websites, such as audio Mp3, videos (mp4), pop-ups, and animation effects. JavaScript is a fast language that can execute code quickly, making it the perfect language to build my interactive websites.

The project goal or problem to be solved.

My rule based chatbot is a more unprofessional chatbot website, it allows for a fun rule-based interaction between the user and bot. however, my second chatbot is a professional medical chatbot. The medical chatbot will allow you to chat to the best doctor that suits you at the comfort of your own home. This allows the unwell user to not have to make their own way to a hospital just to wait several hours to get checked, overall improving the safety and efficiency of everyone's lives.

Quadriplegic Dr Steven Peterson says technology and modifications allow him to continue working. *(ABC Central West: Xanthe Gregory)*

Inspirations for my project.

My medical bot was inspired from my past medical experiences. I am not joking when I say that I had to wait over an hour for a doctor to take my temperature, give me an ice pop and send me home. Thankfully as I am Australian, that experience did not set me back financially. However, I had seen and heard of several occasions where medical treatments in America had become financial burdens on the families with sick and unwell loved ones. While it is essential for people to see doctors when they are unwell. I believe that a professional doctor that analyses your symptoms online not only saves the time, cost, and effort for the unwell user, but also provides employment opportunities for doctors/future doctors who are unable to work in a hospital.
(The handicapped who aim high to become doctors of the future, but were previously held back by the inability to travel and move around)

Over 4.4 million people in Australia have some form of disability. That's 1 in 5 people. 17.8% of females and 17.6% of males in Australia have disability.

People aged between 15 and 64 years with disability have both lower labour force participation (53.4%) and higher unemployment rates (10.3%) than people without disability (84.1% and 4.6% respectively).

(Disability Statistics - Australian Network on Disability, 2023))

External resources, libraries, or frameworks utilized.

```
@Justanswer/re-page-sip-
desktop@1.35.5
//components.Justanswer.com/v3/re-
page-sip-desktop@1.35.5.css
//my.Justanswer.com/Content/fe-
resources/external/shims/es5-
shim.js
//my.Justanswer.com/Content/fe-
resources/external/shims/respond.js
//my.Justanswer.com/Content/fe-
resources/external/shims/html5shiv.
js
```
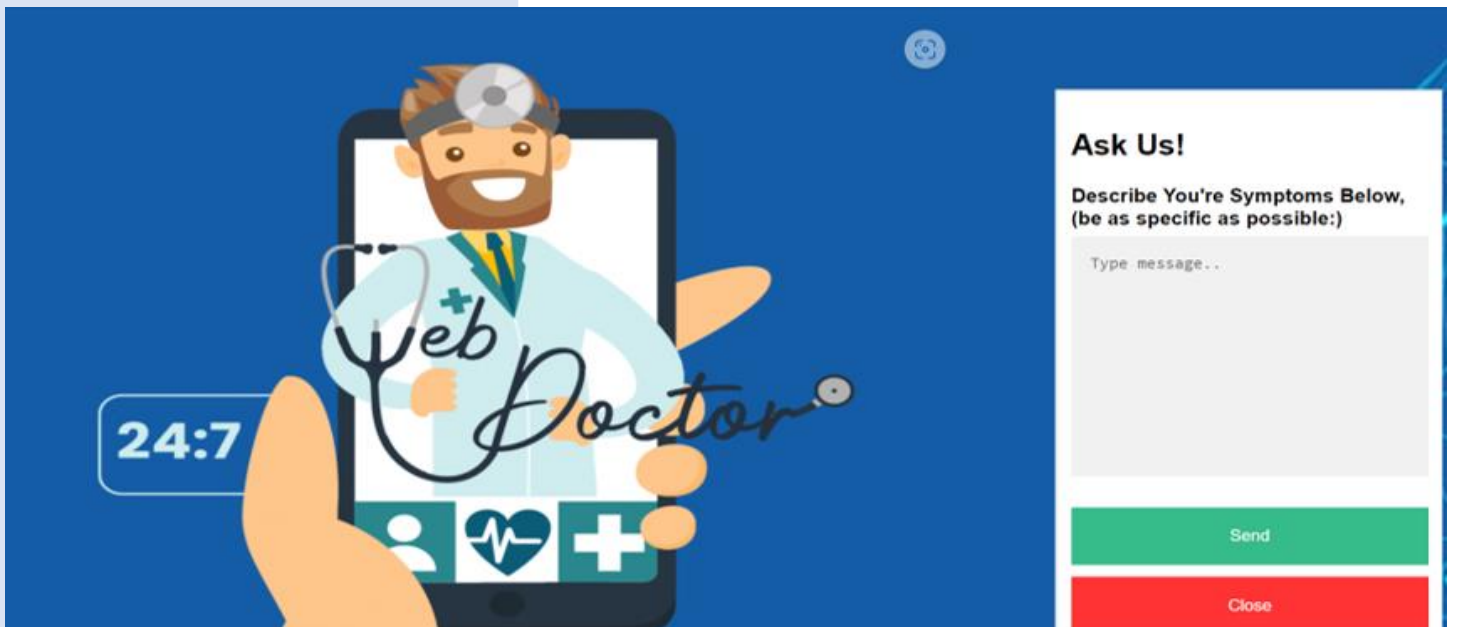

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Project Implementation

BOWEN LIN

Student

Development process and key features of my passion project:

First WebDoc Draft. V1.

My first draft of the WebDoctor started of like this:

It uses a user interaction which allows you to send a message to my email. It also includes a logo I made, but apart from that, it was nothing special, at least, for now...

EMAIL:
013120@abpat.qld.edu.au

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Coding Stage

Improvements & Innovation

Getting Started

Basic code examples to illustrate important programming concepts.

Shown below is the button that allows the chat form to open up as well as the chat popup asking you for a name and a messaged to be typed. The image/logo above is simply done through a JPG.

```html
<button class="open-button" onclick="openForm()">Health bothering you? Ask us here!</button>
▼ <div class="chat-popup" id="myForm">
  ▼ <form action="/action_page.php" class="form-container"> == $0
    <h1>Ask Us!</h1>
  ▶ <label for="msg">⋯</label>
    <textarea placeholder="Type message.." name="msg" required></textarea>
    <button type="submit" class="btn">Send</button>
    <button type="button" class="btn cancel" onclick="closeForm()">Close</button>
  </form>
</div>
```

But now let's get to the slightly improved version.

My self designed favicon/icon.

MedDoc 2.0. website

Jpg of me but with PHD

Wise old man for background image

My own logo.

Automatic Opening question

Send button
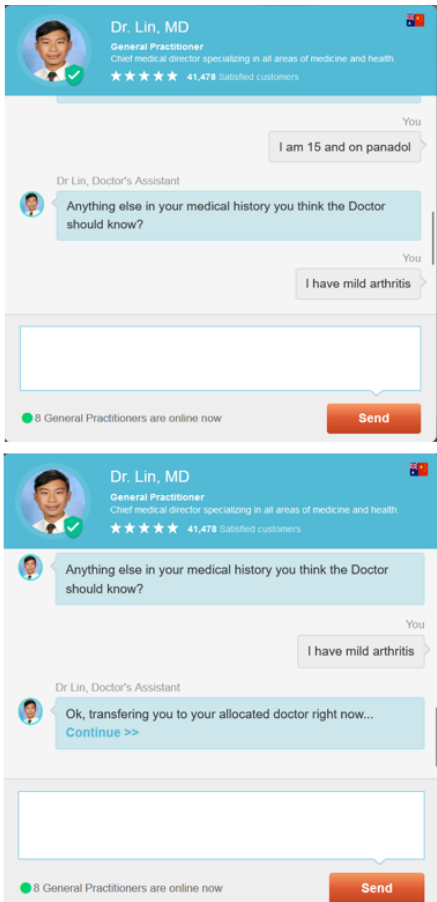
Input message box

Credible sources

User Interactions:
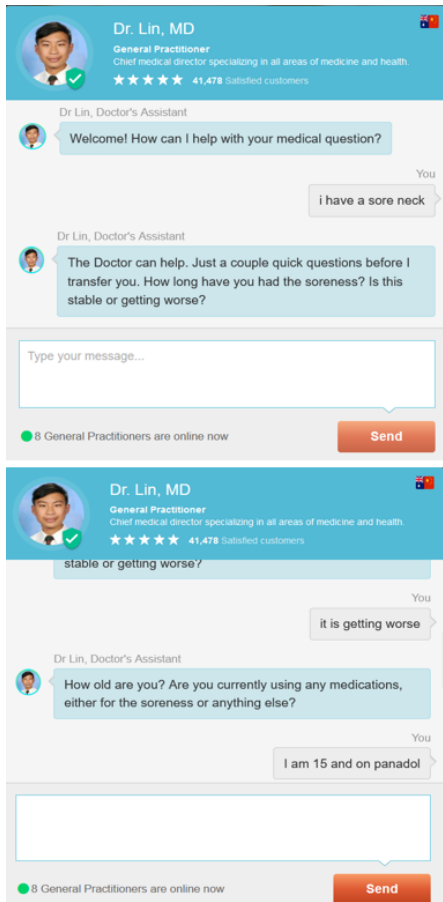
It should be mentioned the AI response bot isn't programmed by myself (who was just introduced to html in term 1)

However the rest of the website is made by me.

(I have fully programmed a rule-based chatbot that links to this MedDoc website when input=hospital)

Now, obviously I cannot get actual doctor contacts but this could be done in the near future…

Welcoming code shown below:

```html
▼ <div class="text">
      ::before
      <span>Welcome! How can I help with your medical question?</span> == $0
      ::after
    </div>
   </div>
  </div>
 ▶ <div class="typing-box">…</div>
  </div>
 </div>
▶ <div class="th-chat-integrated-question-box">…</div>
 <div class="question-tooltip hidden">Ask your question here</div>
```

Visual Aspects:

```
▼<div class="chat-container">
  ▼<div class="th-prominent-chat dqt-chat">
    ▼<div class="th-prominent-chat-window"> flex
      ▼<div class="chat-header">
        ▶<div class="expert-profile expert-profile--blue has-flag">⋯</div> flex
        </div>
      ▼<div class="dialog body">
        ▶<div class="conversation">⋯</div>
        </div>
      ▼<div class="th-chat-integrated-question-box">
        ▼<div class="wrapper"> flex
          ▼<div class="text-box">
              ::before
              <textarea class="text-area" placeholder="Type your message..." data-
              testid="chat-input" enabled="" disabled=""></textarea> event
              ::after
            </div>
          ▼<div class="bottom"> flex
              <span class="online-now">●8 General Practitioners are online now</span>
              <input class="send-btn dqt-send enabled" type="button" value="Send"> event
            </div>
          </div>
        </div>
        <div class="question-tooltip hidden">Ask your question here</div>
      </div>
    </div>
  </div>
▶<div class="hype-hero">⋯</div> flex
```

This enables/disables the user to keep typing after they are transferred to the suitable doctor.

How it works:

Automatic Assistant

Tell our medical assistant about your medical symptoms and concerns so that she can find the most suitable doctor for your situation. You can find our medical chatbot Dr lin to the right hand side of your page. 👉

Chat with the perfect doctor for you

Connect with your doctor through email, text or phone. Please provide our doctors with medical information such as family medical history, photos or test results to get a more comprehensive answer. 🧑‍⚕️

Be free from your medical concerns

You have our thousands of doctors and specialists to support your physical, emotional and mental well-being 24/7. 🔮

Automatic Scrolling Reviews:

Our services include:

Chatting with our verified doctors one on one 📱
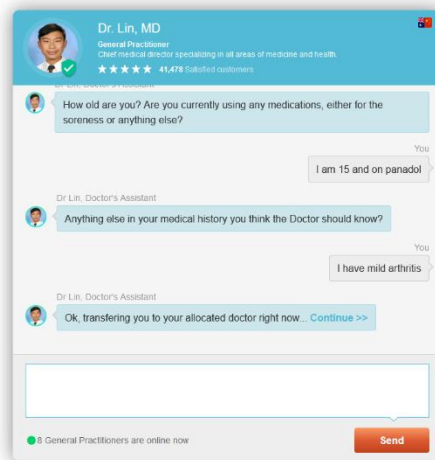
Our doctors are online and ready to assist you 24/7.

Alternative medicine & wellness ⚕️

Save up to 30% on a variety of our services that address your whole well-being: Acupuncture, massage therapy, yoga and Chinese herbal medicine

Mental health counselling 💚 🎗

Get support for stress, grief, family issues, life transitions, all from the comfort of your own home.


```
▼<div class="re-sip-membership-benefits-item">
  ▼<picture>
      <img class="re-sip-membership-benefits-item__image" src="t.jpg" alt="Mental
      health counselling💚🎗">
```

The Automatic Scrolling/Fade Command:

Over 8 million satisfied customers

"

Spoke to Dr. Lin, he was wonderful and truly caring about my medical concerns. Thank you for being so kind and caring!

★★★★★ - Brian Q.

"

Over 8 million satisfied customers

"

You have helped us more than you could ever know. I seriously don't know what my brother's situation would be today if you had not gone above and beyond just answering my questions.

★★★★★ - Joe and Sal

"

Over 8 million satisfied customers

"

Doctors are very knowledgeable and you don't have to wait long as opposed to the long wait of a hospital waiting room.

★★★★★ - James M.

"

```html
▼<p class="text">
    Spoke to Dr. Lin, he was wonderful and truly caring about my medical
    concerns. Thank you for being so kind and caring!
</p>
```

```css
.testimonials            re-page-sip-desktop@1.35.5.css:1
.quote.active ⠿ {
    -webkit-animation-name: ▶ fade-in;  ▽
    animation-name: fade-in;
    -webkit-animation-duration: ▶ 1s;  ▽
    animation-duration: 1s;
    display: block;
```

Hyperlinks to My Other Websites: (T's&C's, About us, Privacy, etc.)

Gif Background:

```
▶ <div class="re-trust-logos" data-component="re-trust-logos"> ··· </div>
▶ <div class="re-try-membership" style="background-image: url("8.gif");" data-
  component="re-try-membership"> ··· </div> flex
```

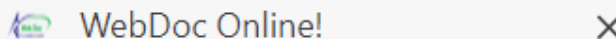## My Company name (self-designed:)


```
<img src="Lin.jpg" alt="Lindustries" width="123" height="33">
```

Self-made browser favicon:


```
<link rel="shortcut icon" type="image/x-icon" href="/favicon.ico">
```
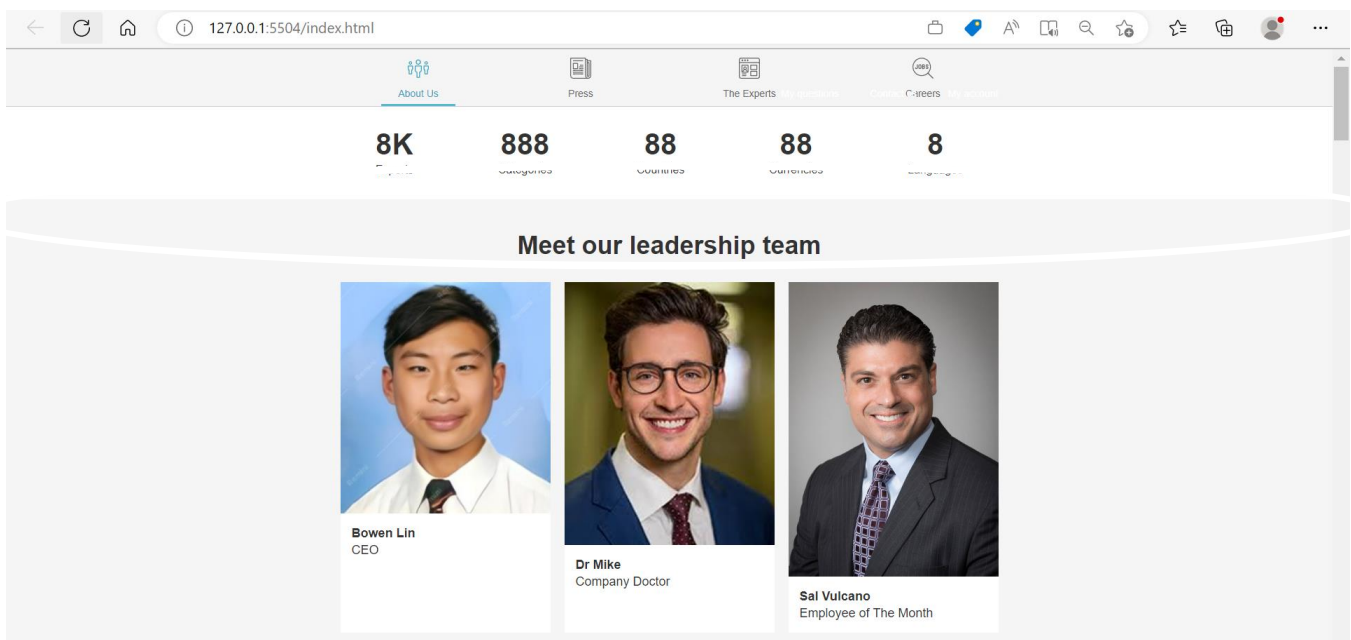
One of The Websites That My Hyperlinks Lead To:

Terms | Privacy | About us | Pricing | Contact us

© 2023 Lindustries. All rights reserved.

About us (hyperlink:)

```
[{&quot;label&quot;:&quot;Terms&quot;,&quot;rel&quot;:&quot;nofollow noopener&quot;,&quot;target&quot;:&quot;_blank&quot;,&quot;url&quot;:&quot;http://127.0.0.1:5502/index.html&quot;},

{&quot;label&quot;:&quot;Privacy&quot;,&quot;rel&quot;:&quot;nofollow noopener&quot;,&quot;target&quot;:&quot;_blank&quot;,&quot;url&quot;:&quot;http://127.0.0.1:5508/index.html&quot;},

{&quot;label&quot;:&quot;About us&quot;,&quot;rel&quot;:&quot;nofollow noopener&quot;,&quot;target&quot;:&quot;_blank&quot;,&quot;url&quot;:&quot;http://127.0.0.1:5504/index.html&quot;},{

&quot;label&quot;:&quot;Pricing&quot;,&quot;rel&quot;:&quot;nofollow noopener&quot;,&quot;target&quot;:&quot;_blank&quot;,&quot;url&quot;:&quot;http://127.0.0.1:5505/index.html&quot;},

{&quot;label&quot;:&quot;Contact us&quot;,&quot;rel&quot;:&quot;nofollow noopener&quot;,&quot;target&quot;:&quot;_blank&quot;,&quot;url&quot;:&quot;http://127.0.0.1:5507/index.html&quot;}]
```

Hyperlinks to my "About us" website is shown below:

127.0.0.1:5504/index.html

About Us   Press   The Experts   Careers

8K   888   88   88   8

Meet our leadership team

Bowen Lin
CEO

Dr Mike
Company Doctor

Sal Vulcano
Employee of The Month

Results and Evaluation:

The Final outcome of my passion project turned out to be successful, I found that this was my big introduction to JavaScript, html and CSS coding. My medical bot turned out to be a great success and the only thing left is for this bot to link to and actual medical company to make the whole project possible. (as well as some legal licenses)

The problem is metaphorically solved. As I am yet to gain access and contacts with actual doctors that are limited to working at home. But I am sure that when this project becomes a real company, people in countries where medicinal bills are unfairly high will turn to my website.

One of the biggest challenges I faced was with chatbot not being able to refresh the conversation, everything was saved in chat. This was later solved by changing both a loop command and opening the code in a new live server.

Smaller issues such as aligning text boxes and making images fit inside certain shapes were mostly fixed by either patience or stack overflow, (reddit of the coding world). But problems like this were all solved in the end. However, if I were to code the whole project again. I would make my code formatted more neatly.

Conclusion:

My key aspects of this project were the design and response factor of my medical bot. making sure that the user interaction could pass the Turing test, (allowing the user to feel as comfortable as they could when talking to the chatbot. Allowing them to feel as if they were talking to a live doctor/receptionist at the hospital.)

My overall experience with the passion project.

This passion project has allowed me to learn and code my very first big project that also allowed me to add some of my creative aspects into the designing factor of website building. Overall, the coding stage tested both my patience and creativity and I feel satisfied with my progress in my passion project; however I am eager to learn more coding languages and see how high the limit is in the world of coding.

References:

Doctors with disability continue to practise thanks to technology, support and a positive attitude - ABC News. (2022, June 18). *ABC News*. https://www.abc.net.au/news/2022-06-18/doctors-with-disability-practising-thanks-to-technology/101155344

(Accessed 8/4/2023)

freeCodeCamp.org. (2019, December 5). *The Advantages and Disadvantages of JavaScript*. FreeCodeCamp.org; freeCodeCamp.org. https://www.freecodecamp.org/news/the-advantages-and-disadvantages-of-javascript/

(Accessed 18/4/2023)

Disability statistics - Australian Network on Disability. (2023, April 13). Australian Network on Disability. https://and.org.au/resources/disability-statistics/#:~:text=17.8%25%20of%20females%20and%2017.6,of%20all%20people%20with%20disability.

(Accessed 18/4/2023)