

Medical Learning Website Project Proposal

SIT120

Assignment 1(improve)

Github link:

<https://github.com/shuyuan0619/120-Assignment-1-re>

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Table of Content

Introduction	3
Asset List	3
Product Purpose	4
Target Audience	4
Creativity demonstration	5
Components	5
User Story	6
UI/UX Design	7
System Summary	9
Concept & Future Plan	14
Conclusion	14

Introduction

In this project proposal, I plan to create a medical learning website, where users can learn medical courses and watch medical videos. In addition to this, I also designed the medical forum. Users can also post problems in the learning process on the medical forum for help and can also post medical cases for discussion and ideas.

Asset List

The relevant assets in this project are in the following table. I 'd like to show some of the major assets in the following table.

Module	Asset	Description
Index	index.html	showing as index page
	Home.vue (revision)	Use as a home page to jump to other pages.
	Search.vue	Search by keywords
Login	Login.html	Show login page for users login accounts
	Login.js	Provide users with login accounts
	Logout.vue(revision)	Users can log out of the accounts.
Medical	MedicalContent.html	show medical articles catalogue
	MedicalDetail.html	show medical detail page
	MedicalContent.js	serving for the medical catalogue page
	MedicalDetail.js	serving for the medical detail page
	Catalog.vue(revision)	showing the list of medical information
Medical Video	videoContent.html	show medical video content
	videoDetail.html	show medical video detail
	videoContent.is	serving fot the medical

		video content page
	videoDetail.js	serving for the medical video detail page
	Medicalvideo.vue(revision)	Present relevant medical video
Medical Froum	MedicalFroum.html	show the medical case posted by users
	MyPost.html	show the medical case posted by current user
	MedicalFroum.js	serving for the MedicalFroum page
	MyPost.js	serving for the MyPost page
	MedicalForum.vue(revision)	Show the medicalforum page with relevant platforms' logos (the login function via other platforms is not achieved in this version)
style	style.css	control whole wibesite style

Product Purpose

The purpose of this website is to establish a good platform for users who are interested in medical knowledge, are engaged in medical industry and medical students to learn and exchange medical knowledge.

Target Audience

medical learner	There are many medical learners who are not engaged in or studying medical related fields, who have not studied medical expertise but are interested in medical knowledge. They can use the medical content of this website to select the medical major they are interested in for further study.
medical students	Medical students want to accumulate more medical knowledge, but they spend a lot of time searching for medical professional videos online. They can use

	the site's medical video feature to quickly sift through and watch it for free.
medic in rural area	Doctors working in rural areas encounter some typical cases and want to analyze and discuss them. It's hard to find more doctors to talk to because there are fewer medical resources. They can post typical cases to the website's medical forum, making it easier to communicate with more medical personnel.

Creativity demonstration

- **Home page clear, sensitive operation, simple design.**

Our home page is clear and concise, easy for users to learn and operate, and the server is responsive. The overall design is also simple style, not too many gorgeous patterns. Each module is equipped with a search box for users to index by search keywords.

- **Abundant free medical information, easy to communicate with others**

We do not provide users with a lot of free medical information, but we also set up a medical forum platform where users can ask questions and share typical medical case histories, which makes our site different from other platforms. By cooperating with professional physicians and medical students, we can provide users with more valuable reference materials and more authoritative answers.

Components

Component	Explanation and Function
Login page	The Log in component is used for user login. This component is used to collect the information entered by the user, and the server checks the information by retrieving the database to determine whether the user's information is in the database and whether the user's password is correct. You can use Vue to detect the results of user actions on a web page. The system displays whether the user has logged in successfully.
medical	This is a collection of medical knowledge provided to the user, consisting of a medical catalogue and medical detail. You can use VUE to complete the

	showing of medical catalogs and details. On the catalogue page, the user can see the catalogue for medical articles. The user can search and select unit article on this page. After the user clicks, the server will respond to the user's selection and display the user's selected medical professional article in the medical detail page.
Medicalvideo	This website page display the relevant medical video from Youtube.
Medical forum	The medical forum is a platform for users to communicate. The forum allows users to ask questions and share typical cases for discussion. Users can add their own cases and problems that they want to analyze, and also respond to others' questions. But in order to respond to posts and add their posts, users need to have a choice of ways to log into their accounts

User Story

Statement	Acceptance Criteria	Priority
As a user, I want to log in to my account and don't need to log in again for a week.	At the bottom of the login page, users can select whether to check the button 'Remember me in 7 days'	High Priority

Statement	Acceptance Criteria	Priority
As a user, I am looking for a medical article on immunology.	Users can input keywords in the search box of medical directory click 'search 'button to match the articles.	High Priority

Statement	Acceptance Criteria	Priority
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As a user, I would like to upload a typical case to a medical forum for discussion and analysis.	Users can select the medical forum and click the "Add" button to jump to a post editing page. Users can upload pictures and edit text. After editing the question, click the "Post" button to publish it.	High Priority
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UI/UX Design

In the screenshot below I show you of the medical video page, the overall style of the site is modern. The color of the site is mainly white, with red as a complementary color. The site will not insert a lot of pictures, mainly concise, easy for users to understand and operate. In addition, I added a search box in each module, so that users can easily find their search results quickly by searching keywords on the current page.

Home page (Catalogue Page):

☐

[Home](#) | [Login](#) | [Medical Forum](#) | [Medical Video](#)

Welcome to E-Medical

WE'RE ON A QUEST TO FIND THE MOST NUTRIENT RICH INGREDIENTS THE WORLD HAS TO OFFER,
TO HELP YOU GET THE MOST OUT OF EVERY DAY.

LEARN MORE

Catalog

- Allergy and immunology
- Anesthesiology
- Dermatology
- Diagnostic radiology
- Emergency medicine
- Family medicine

Login Page:

☐

[Home](#) | [Login](#) | [Medical Forum](#) | [Medical Video](#)

Login

Username

Password

Medical Forum Page:

Search

[Home](#) | [Login](#) | [Medical Forum](#) | [Medical Video](#)

 [Twitter](#)
 [Facebook](#)
 [Snapchat](#)
 [Instagram](#)
 [Medium](#)
 [Weibo](#)

Content

THE PATIENT WAS A 20-YEAR-OLD MALE WITH INTESTINAL OBSTRUCTION. AFTER THE OPERATION, FASTING WAS PERFORMED AND GASTROINTESTINAL DECOMPRESSION WAS PERFORMED FOR 8 CONSECUTIVE DAYS. A TOTAL OF 2200ML FLUID WAS ASPIRATED. THE AVERAGE DAILY INTRAVENOUS FLUID (5% GLUCOSE SOLUTION) WAS 2500ML, AND THE URINE VOLUME WAS 2000ML.

Questions

TWO WEEKS AFTER THE OPERATION, THE PATIENT WAS DEPRESSED FATIGUE, LETHARGY, LETHARGY, DECREASED APPETITE, AND SLUGGISH TENDON REFLEXES. BLOOD K2.5MMO1/L, BLOOD NA* 140MMO1/L, BLOOD C1103MMO1/L. ECG DISPLAY: ST SEGMENT IN LEAD I, AVF, V, V DECREASED, T WAVE BIPHASE IN LEAD AVF, V; HAVE U WAVE. KCl WAS ADDED INTO 5% GLUCOSE DAILY, AND BLOOD K INCREASED TO 4.6MMO1/L FOUR DAYS LATER. THE GENERAL CONDITION WAS SIGNIFICANTLY IMPROVED. SITTING UP, SMILING, INCREASED APPETITE, TENDON REFLEXES BACK, ECG BACK TO NORMAL.

REPLY

Medical Display Page :

Search

[Home](#) | [Login](#) | [Medical Forum](#) | [Medical Video](#)



System Summary

➤ Component integrating

In this project, the components mentioned above will be structured as follows.

➤ Website Presentation

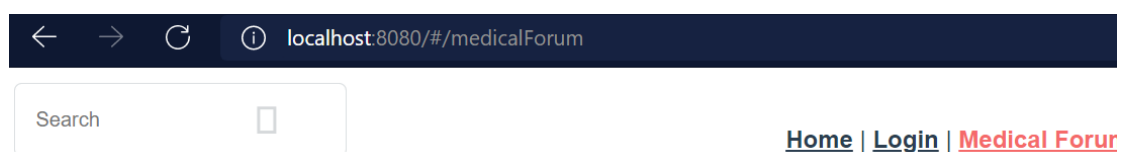
In this project, we created and designed an e-medical website to help people learn about medical. The site includes an index page, a login page, a medical forum page, and a medical video page for people interested in medical knowledge to browse, ask questions, and so on.

During project creation, some problems were encountered. The main challenge was to present videos of medical research. First use video.js to display the video, but it's not friendly enough, so use embedded YouTube videos to display this information. Other issues include how to make a router with all the pages and how to display a list of medical information directories. How to get users to search for medical information and so on. In addition, due to the lack of medical knowledge, the website displays limited medical knowledge and does not display many professional or in-depth medical knowledge discussions.

In this project, only some of the functionality listed in the plan was implemented. Because of some difficulties and time constraints in the design of the site functions did not achieve all the functions as planned.

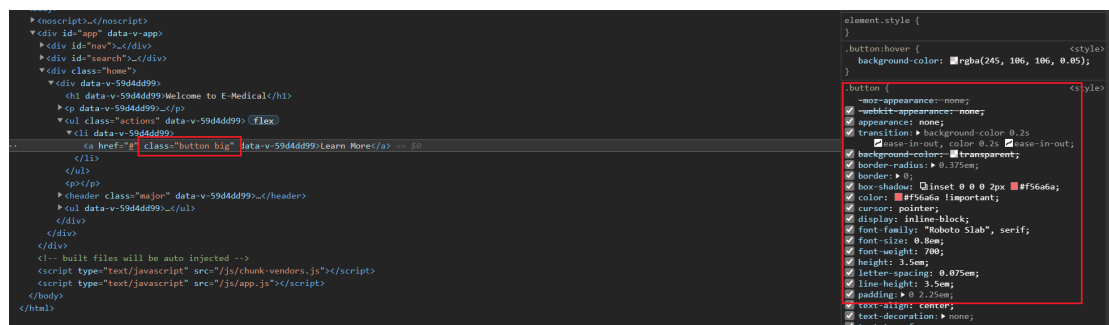
Search bar in all page

User can search medical information in all page.



Class and Style Bindings

Use class bindings to tag 'a'. The id is useful when change control default style.



Conditional Rendering

Conditional rendering is used for showing whether the user has hover on button. When the user has hover on, the button will change background color.

LEARN MORE

LEARN MORE

List Rendering

List rendering is used both in showing the list of medical information.

Catalog

- Allergy and immunology
- Anesthesiology
- Dermatology
- Diagnostic radiology
- Emergency medicine
- Family medicine

Form Input Bindings

Form input bindings can be used to get what user has just input. When logging in the system, we use this to get users' input.

Login

Username	<input type="text" value="username"/>
Password	<input type="password" value="password"/>
	<input type="button" value="Login"/> <input type="button" value="Reset"/>

Component Registration

Define the template of a component.

```
<template>

<div>

  <h1>{{ msg }}</h1>

  <p>

    We're on a quest to find the most nutrient rich ingredients the world has to offer, <br />

  </p>

</div>

</template>
```

to help you get the most out of every day.

```
<ul class="actions">
```

```
<li><a href="#" class="button big">Learn More</a></li>
```

```
</ul>
```

```
</p>
```

```
<header class="major">
```

```
<h2>Catalog</h2>
```

```
</header>
```

```
<ul>
```

```
<li><a>Allergy and immunology</a></li>
```

```
<li><a>Anesthesiology</a></li>
```

```
<li><a>Dermatology</a></li>
```

```
<li><a>Diagnostic radiology</a></li>
```

```
<li><a>Emergency medicine</a></li>
```

```
<li><a>Family medicine</a></li>
```

```
</ul>
```

```
</div>
```

```
</template>
```

Register the component.

```
<script>
```

```
import Catalog from '@/components/Catalog.vue'
```

```
export default {
```

```
  name: 'Home',
```

```
  components: {
```

```
    Catalog
```

```
  }
```

```
}
```

```
</script>
```

Custom Router

Define routes array, make page redirect to path and set tittle.

```
import { createRouter, createWebHashHistory } from 'vue-router'
```

```
import Home from '../views/Home.vue'
```

```
const routes = [  
  {  
    path: '/',  
    name: 'Home',  
    component: Home,  
    meta: {  
      title: "E-Medical"  
    }  
  },  
  {  
    path: '/login',  
    name: 'Login',  
    meta: {  
      title: "Login"  
    },  
    component: () => import('../views/Login.vue')  
  },  
  {  
    path: '/medicalForum',  
    name: 'medicalForum',  
    component: () => import('../views/MedicalForum.vue'),  
    meta: {  
      title: "Medical Forum"  
    }  
  },  
  {  
    path: '/medicalvideo',  
    name: 'medicalvideo',  
    component: () => import('../views/Medicalvideo.vue'),  
    meta: {  
      title: "Medical Video"  
    }  
  }  
]
```

```
const router = createRouter({  
  history: createWebHashHistory(),  
  routes  
})
```

```
export default router
```

Set page title

Get title in route meta and set document title.

```
router.beforeEach((to, from, next) => {  
  
  if(to.meta.title) {  
  
    document.title = to.meta.title  
  
  }  
  
  next()  
  
})
```

Fontawesome icon

Other platforms' icons:

[Twitter](#) [!\[\]\(0aff635c4179ba9e710b00f4b01d3b20_img.jpg\) Facebook](#) [!\[\]\(29658d981ebdf5edc259074cbf6110e0_img.jpg\) Snapchat](#) [!\[\]\(9b3d169a802e50e3425ebff869ff6250_img.jpg\) Instagram](#) [!\[\]\(510c3e621c59b50959bed0883f15fd7c_img.jpg\) Medium](#) [!\[\]\(0bd24f72e7ea52ddf31d0d93d38b9fa5_img.jpg\) Weibo](#)

```
import { library } from '@fortawesome/fontawesome-svg-core'  
  
import { faFontAwesome,faTwitter,faFacebook, faSnapchat, faInstagram,faMedium,faWeibo } from '@fortawesome/free-brands-svg-icons'  
  
import { FontAwesomeIcon } from '@fortawesome/vue-fontawesome'  
  
library.add(faFontAwesome,faTwitter,faFacebook, faSnapchat, faInstagram,faMedium,faWeibo)  
  
createApp(App)  
  
  .component("font-awesome-icon", FontAwesomeIcon)  
  
  .use(router)  
  
  .mount('#app')  
  
  <ul class="icons">  
  
    <li><a href="https://twitter.com" target="_blank" rel="noopener"> <font-awesome-icon :icon="['fab', 'twitter']" /> Twitter</a></li>  
  
    <li><a href="https://facebook.com" target="_blank" rel="noopener"> <font-awesome-icon :icon="['fab', 'facebook']" /> Facebook</a></li>  
  
    <li><a href="https://snapchat.com" target="_blank" rel="noopener"> <font-awesome-icon :icon="['fab', 'snapchat']" /> Snapchat</a></li>  
  
    <li><a href="https://instagram.com" target="_blank" rel="noopener"> <font-awesome-icon :icon="['fab', 'instagram']" /> Instagram</a></li>  
  
    <li><a href="https://medium.com" target="_blank" rel="noopener"> <font-awesome-icon :icon="['fab', 'medium']" /> Medium</a></li>  
  
    <li><a href="https://weibo.com" target="_blank" rel="noopener"> <font-awesome-icon :icon="['fab', 'weibo']" /> Weibo</a></li>  
  
  </ul>
```

Concept & Future Plan

➤ System analysis

Once a user has registered, the information will be saved, and the user can choose not to log in again for seven days. On medical forums, when a user posts a post and receives a response, the user gets a reminder.

➤ Technical analysis

Following the unit guidelines, I will mainly use HTML, CSS, JavaScript, and vue.js. Vue.js in particular will play an important role in many functions such as login, search, showing catalogue.

➤ My development schedules

In this class, assignments¹ are due in three weeks. So we have about 20 days left to finish the project. I will adjust my schedule according to the difficulty of the task in project and arrange my time reasonably to ensure the smooth progress of the project.

➤ Timeline feasibility

I have three weeks left, and I will use the first two weeks to complete the implementation of Vue function. In the rest of the week, I will check the places to be modified in my whole project or the remaining Vue functions that are difficult to implement.

Conclusion

To sum up, the project presents a complete medical information search site. While not all the features as planned were implemented, some features were attempted and modified. The site will be better presented with servers and databases.