

PORTFOLIO

Student Version



ICTWEB441

Produce basic client-side script

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IT Works is a series of training and assessment resources developed for qualifications within the Information and Communications Technology Training Package.



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Date:	9/5/2022
Business this assessment is based on:	ICTWEB441 Simulation Pack

Section 1: Web document requirements

Complete this section *before* the meeting with the client.

<p><i>Website information</i></p> <p><i>Outline the client requirements for the website based on your initial review of the documentation.</i></p>	<p><i>My first page home page includes the name of my IT project and my logo. There is an enterprise logo on the right of the logo. It also contains information about our enterprise and the way to contact us. I also designed a footer for visitors to see. The second page is mainly about the introduction of our IT project courses. A form is made for viewing the courses, so that consumers can know more clearly what services our IT projects provide. The third page is a map, which provides the location of our enterprise and gives consumers to find us and let W</i></p>
<p><i>Procedures for developing websites</i></p> <p><i>Outline the procedures you need to follow to produce websites. This must include language in which the website is to be developed and cyber security procedures and protocols to be followed in relation to website development.</i></p>	<p><i>Collect and integrate the required information, and make a system diagram and flow chart to facilitate the subsequent website production. Finally, after the production, use the software to test the website, and finally use the HTTPS protocol to determine the security of the website.</i></p>
<p><i>Further information</i></p> <p><i>What else do you need to find out from the client in order to produce their website?</i></p> <p><i>Make notes on this to use at your meeting.</i></p>	<p><i>The colors of the website are mainly depicted in blue and white. The website contains the detailed information of the IT project course and analyzes the advantages and disadvantages of the course, which is more convenient for consumers to choose. The accessibility of the website is tested to avoid the problem of poor consumer experience caused by the accessibility of the website.</i></p>

Complete this section following the meeting with the client.

<p><i>Client requirements</i></p> <p><i>Outline the client requirements for the website based on your meeting with the client.</i></p>	<p><i>My client is an IT training organization.Help it develop a website.The customer I face is the education of it projects. Our customer's requirement is to learn it technology. We will carry out a systematic training on it projects. For example, if the customer's course is the production of 3D models, we will use 3DMAX software to carry out education and training. For example, if the customer learns the production of websites, we will carry out education and training through JavaScript software. The hardware measures provided by our training institutions are also the IT projects designed by s our project, which almost cover up all the skills required by customers designed in the market.</i></p>
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Section 2: Website design, development and testing

<p><i>Dynamic website design</i></p> <p><i>You are to design the website based on the client's requirements.</i></p> <p><i>Create a wireframe in an appropriate software.</i></p> <p><i>Take screenshots of your work to attach to your portfolio.</i></p> <p><i>List each screenshot here and then attach.</i></p>	<p><i>Overview of business and client requirements: make a web page to help promote and develop the project. Customers hope to have the navigation of information about their needs and expectations collected from the client through the establishment of the web page, and play a beneficial role in the development of the project through the influence of the web page.</i></p> <p><i>Page description</i></p> <p><i>Github image links: https://jennerzhangyu.github.io/resume2/</i></p> <p><i>1</i></p> <p><i>home page</i></p> <p><i>picture/1.jpg at main · JennerZhangYu/picture (github.com)</i></p> <p><i>2</i></p> <p><i>about us page</i></p> <p><i>picture/1.jpg at main · JennerZhangYu/picture (github.com)</i></p> <p><i>3</i></p> <p><i>course details (this will be the course you are studying)</i></p> <p><i>picture/2.jpg at main · JennerZhangYu/picture (github.com)</i></p> <p><i>4</i></p> <p><i>enquiry form to allow customers to request further information</i></p> <p><i>picture/2.jpg at main · JennerZhangYu/picture (github.com)</i></p> <p><i>5</i></p> <p><i>contact page with a link to google maps.</i></p> <p><i>picture/3.jpg at main · JennerZhangYu/picture (github.com)</i></p> <p><i>6</i></p> <p><i>Website structure</i></p> <p><i>picture/4.jpg at main · JennerZhangYu/picture (github.com)</i></p>
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ZhangYu
Jenner

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ARTICLE BY: JENNER



Resume

I am a student of Ningbo City Vocational and technical college. At present, I am a sophomore. My grades are relatively ordinary. I am personally interested in sports.

I am most interested in physical education among the courses set up by the school at present. At the same time, I am also interested in English and programming. Physical education is my personal hobby.

For me, physical education is a process of relaxing and liberating pressure. Programming and English are my professional courses. I am a computer major student. English is a basis for learning programming, This can make me better learn the content of programming class.

My strength is that I will invest a lot of energy and time in learning what I am interested in and be responsible for my homework, so most of my homework will be completed and submitted on time, but my weakness is also obvious. My weakness is that I don't like to ask about the difficult parts of my homework, so the time to do my homework will be relatively long and take up a lot of time.

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It project

My IT project is to build a website to store personal information, describe my personal information and give future employers access and understanding. The software needed for this project is a perfect personal information website.


Values and methods of completing this it project

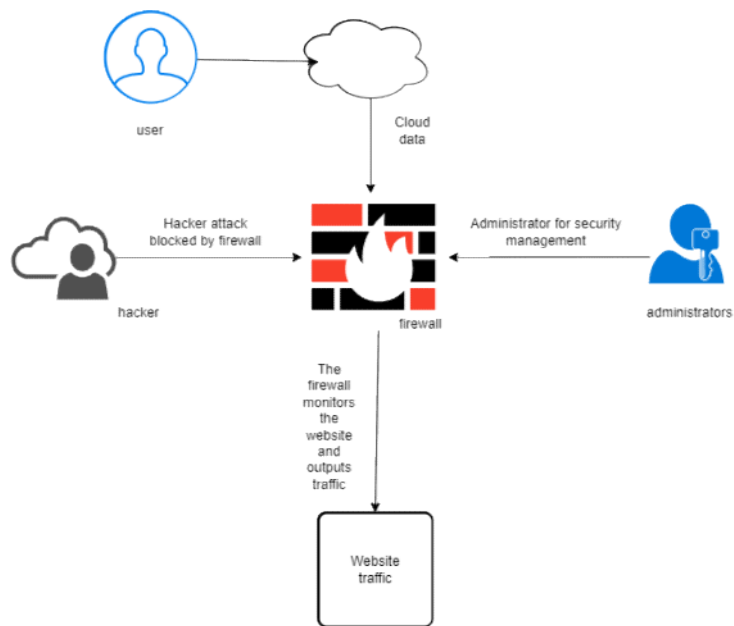
The first core value of the project of establishing the website is authenticity, authenticity, reliability and high reliability. It is the first goal and core idea of our website to give visitors the most authentic information and facilitate their use. Authenticity is very important. For our website, when registrants learn to look at themselves truthfully, they know that they are not omnipotent. After they look at their strengths and weaknesses truthfully, they can look at problems more objectively. This is an test for registrants. We will verify the identity of the website registrants. Only after the official verification can we register through the inspection of the website. We will verify the website registrants through regular updates. This is the operation mode of our website.

firewall	Router	Wifi	Webserver
Standard firewall functions, such as status check Integrated intrusion prevention Application awareness and control to view and block risky applications Upgrade the path to include future information sources Technologies to address changing security threats	We use tp link, <u>TP-LINK</u> tl-pa1000 package plug and play. We can access the Internet when we power on the socket and connect the network cable. The <u>TP-LINK</u> tl-pa1000 package has no obvious heating after long-term use, and there is no disconnection during use.	We use <u>Tencent's</u> national WiFi, which has strong performance and ensures the stability of the network when making web pages.	Network server is the core component of computer LAN. Run the network operating system, control and coordinate the work between computers in the network, meet the requirements of users to the greatest extent, and respond and deal with them. Store and manage shared resources in the network, such as databases, files, applications, disk space, printers, plotters, etc. Supervise and control network activities, actually manage the network, allocate system resources, understand and adjust system operation status, close / start some resources, etc.

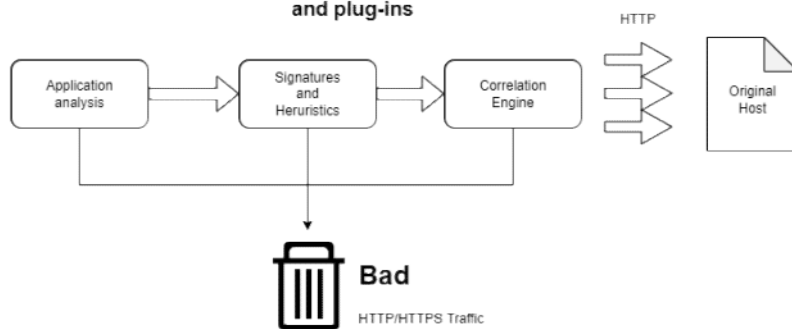
<p><i>Scripting</i></p> <p><i>You are required to develop a simple HTML script that ensures accessibility. You are also to embed the script as per the language you are using.</i></p> <p><i>Take screenshots of your work to attach to your portfolio. Your work should include your coding and first draft of your website.</i></p> <p><i>List each screenshot here and then attach.</i></p>	<p><i>Github RTO website link:https://jennerzhangyu.github.io/resume2/</i></p> <p><i>Github link to your source file.:JennerZhangYu/resume2 (github.com)(This includes HTML, CSS and JavaScript)</i></p>
<p><i>Testing</i></p> <p><i>You are to test the website that you have developed against the required functionality.</i></p> <p><i>Describe the testing process you followed to ensure functionality and the changes you made.</i></p> <p><i>Take screenshots of your work to attach to your portfolio.</i></p> <p><i>List each screenshot here and then attach.</i></p>	<p><i>In the first step, we will conduct compatibility test. For example, cross platform test allows you to evaluate the work of your website in different operating systems: windows, IOS / Mac OS, etc. cross browser website test method helps to verify the correct work of the website under different browser configurations: Mozilla Firefox, Google Chrome, etc. We will use IBM's rational ClearCase, ghostlab and other tools to test the compatibility of your website. In the second step, we will conduct security tests, such as security tests to verify whether the information system protects data and maintains functions as expected. For example, use automatic scripts to check the verification code, ensure that restricted files cannot be downloaded without appropriate access rights, and ensure that there is no login function when entering the wrong password or user name. We will use tools such as Google nogotofail and SQL map to test the security of your website. In the third step, we will conduct tests suitable for mobile devices. For example, nowadays, the number of people accessing the Internet only using mobile devices tends to grow steadily. That's why it's important to make sure your website is suitable for mobile devices. For example, verify the compatibility with smartphones and tablets, ensure that the website navigation is as simple as possible, and optimize the loading time of the website. We will use Google's page speed online for testing. In the fourth step, we will test the performance, such as the behavior of the site and the page loading speed when we continue to provide additional workload. We will use the Gatling tool for testing.</i></p> <p><i>(Teacher, my picture has been placed in the homework link in PDF format.)</i></p>

<p>Security</p> <p>You are check the website to ensure it is secure and bug free.</p> <p>List and describe the tests you have undertaken.</p> <p>The tests should also follow procedures for cyber security.</p> <p>Describe how you have ensured you follow procedures.</p> <p>Take screenshots of your work to attach to your portfolio</p>	<p>Website security is an important standard to detect whether a website is qualified. Every website needs website security tools to maintain the security of the website. In fact, after the website is attacked, the economic loss of website traffic loss, customer loss and order loss has far exceeded the cost of website security services. Therefore, only when the website is safe can it bring you higher benefits. Possible web vulnerabilities include SQL injection. SQL injection is to deceive the server to execute malicious SQL commands by passing in some special characters to the web application interface. SQL injection vulnerabilities belong to the back-end category, but the front-end can also be optimized in experience. And XSS attack, which simply means that the attacker can inject malicious script into the target website and run it to obtain the user's sensitive information, such as Cookie and sessionid, and affect the security of website and user data. XSS attacks are more inclined to the front-end category, but the back-end also needs to securely filter the data when saving the data. The process of protecting the website: the first point is to update the website in time and fail to update the software of your website when necessary. Security and script are reliable methods to allow intruders and malware to use your website. Second, use security software or plug-ins. Just like using anti-virus programs to protect your computer, it is wise to use security software to protect your website. Third, create a security key. It is not enough to use a unique password for administrator level websites; You need to propose complex random passwords that will not be copied anywhere else and store their keys somewhere outside the website directory. Possible hardware has a firewall.</p> <p>Common web vulnerabilities. (2019, February 17). Blog Garden. Retrieved May 4, 2022, from https://www.cnblogs.com/yzloo/p/10391078.html</p> <p>J.L. (2021, September 16). How to protect the website. wikiHow. Retrieved May 4, 2022, from https://www.wikihow.com/Secure-Your-Website#:~:text=How%20to%20Secure%20your%20Website%201%20Keep%20your,is%20secure%20and%20able%20to%20transfer...%20See%20More.</p> <p>Software firewall and hardware firewall. (2022, May 2). Network Technology Alliance Station. Retrieved May 4, 2022, from https://www.wljslmz.cn/10230.html</p> <p>URL: https://jennerzhangyu.github.io/chart/</p>
<p>Feedback</p> <p>Document an email to your assessor here, asking for approval of your website.</p> <p>Provide the link to your website.</p>	<p>The student should document their email here. For example:</p> <p>Dear Assessor</p> <p>I am Jenner (ZhangYu) (pinyin and English name). Please find this Github link to my RTO website.https://jennerzhangyu.github.io/new/</p> <p>The values of my website are:Use the most real and practical IT technology for it technology education.</p> <p>My project methodology is:Waterfall methodology</p> <p>Implementation processes are listed here:Determine customer requirements, analyze customer needs, design the website, build the website, test the website, and finally maintain and update the website.</p> <p>3 future website improvement are:Add more functions, beautify the pages of the</p>

	<p><i>website and improve the speed of website update.</i></p> <p><i>Please review and approve.</i></p> <p><i>I look forward to hearing from you.</i></p> <p><i>Thanks, Student. Jenner</i></p>
<p>Attach:</p> 	<p>Screenshots <input type="checkbox"/></p>



Using security software and plug-ins



Create security key

