

Criterion B - Analysis

Proposed Solution

- Understandable new registration form
- The website with simple and understandable user interface
- Invest in Google ads
- Use social media

The client and I evaluated the shortcomings of the organization and its solutions and came to the decision that designing a new website is the most beneficial solution.

Recommended Minimum System Components and Software

- Hardware: It is recommended to have a minimum of 2 GB RAM, 2 GHz or faster processor, 4 GB available disk space, and an internet connection with Windows PC for Adobe Dreamweaver. To store the data for creating and storing the website 1 GB of free disk space is also required.
- Software: Windows 11, Microsoft Edge for testing the website and for researchers needed to find icons and photos, Adobe Dreamweaver for compiling codes, photos, and CSS, PHP, JavaScript codes under HTML, Adobe Photoshop, and Paint.net applications for editing and cropping photos. Microsoft Word for a transcript of an interview with the customer.

System Interaction

- Compatible with a text editor, browser, and Adobe Photoshop running on the customer's computer.
- It is compatible with the Windows operating system on the customer's computers.
- The website can be accessed from almost any browser by opening HTML files.
- The product is accessible to the developer, customer, and their clients.

Input/output requirements

- Input requirements
 - Information based on participants' personal details, this includes: Participants' names, surnames, phone numbers, school names, team names, and privacy consent forms.
 - CSS, HTML, JavaScript, and PHP coding are needed to create a website with a suitable design and proper form.

- Digital images that are downloaded from the internet or created with Photoshop.
- Details of the activity which contains organization details, dates, organizer names, contact addresses, and sponsor names.
- Output requirements
 - Images should be presented on many web pages of the project.
 - A website with a standardized page design.
 - Website displaying embedded videos from YouTube.
 - Website exhibiting the information about the organization, parts of it, and the organizers.

Processing

- Creating links in each webpage to other pages of the website.
- Adding photos, frames containing text, and media to the website.
- Integrating the PHP with the registration form written with HTML.
- Ensuring the proper rendering of a website through a thorough reading of the code.
- Testing the web pages and the form so that the site will work properly.

Security

- The website will be backed up each month.
- The backup will be stored on the main computer, an external hard drive, and a cloud-hosting service
- The Hostinger hosting service account has been configured with a username and strong password to allow access to the website.

Specific Performance Criteria to Test Functionality

Whether the website satisfies the following requirements will determine its effectiveness:

- a) A copy of the website files.
- b) Standardized page design.
- c) Allows people to reach the organization.
- d) Increased security measures have been implemented on the server and domain side to

prevent unauthorized access.

- e) The website is accessible to customers and has been shared legitimately.

Justification of the Proposed Solution

The client emphasized in the interview that successfully contacting potential participants was the organization's main problem. Although the client accepted the present strategy of using a website and social media accounts, she underlined the necessity for a website that is user-friendly and offers clear information.

Mr. ##### does know about IT systems and their literacy since he is the co-team leader of the organization. As he and his time have limited time, finding someone to develop a better website that will help them to reach a wider group of participants, is necessary for them. However, since the organization is managed by students, it is a luxury to pay someone for a website. They examined other potential options, such as advertising their postings on Twitter and Instagram, but such platforms are only partially effective for spending money on Google Ads is as irrational.

Finding a suitable advertising strategy and a way to effectively represent the organization are the objectives. The client agreed that developing a website was the best way to help the organization reach a broader audience.

The website is intended to support the organization's regional expansion, allowing the company to expand. In appreciation of the clients, he wants to enhance the participation base by delivering an intuitive user interface and an easily understandable website.

I am knowledgeable about the program "Visual Studio Code" and "Adobe Dreamweaver." I have the software set up at my home to improve my skills. I have a fair bit of Photoshop and JavaScript experience. But I don't know much about CSS and PHP. I agree with the customer that using this solution will increase the audience's reach. To provide the greatest results, I will look for opportunities to improve my abilities.

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