**WEB DEVELOPMENT**

**MULTIPAGE RESPONSIVE WEBSITE**

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**ABSTRACT:**

Creating a website is one of the prior tasks to endorse one’s business. If you are about to open some business, then it is better to create a website and advertise on the internet. Advertising and reaching people with the help of the website is quite common and effective. Building a website is also very important when it comes to web page layout and their interconnections between them. Although there are many readymade templates where you can get various designs, creating your own will help in connecting with the audience.

There are two broad divisions of web development – front-end development (also called client-side development) and back-end development (also called server-side development). Front-end development refers to constructing what a user sees when they load a web application – the content, design and how you interact with it. This is done with three codes – HTML, CSS and JavaScript. In our project we have shown only a basic design of multipage responsive website(front end development).

**INTRODUCTION:**

In this project, we will see how to create a multi-page responsive website that gives true results when interacted with. To create the website we need to have some skills. These skills include HTML, CSS, JS. These programming languages will help you create a good web page. By creating web pages separately, we will need to connect every page through linking. The linking tag which is used is in HTML i.e. <href>.Web programming, also known as web development, is the creation of dynamic web applications. Examples of web applications are social networking sites like Facebook or e-commerce sites like Amazon. ... No matter whether you're looking for a career or just want to learn coding, learning how to develop for the web is for you.

**PROJECT IMPLEMENTATION:**

* First, we need to create a framework on how the webpage will look. The first page which is also known as the home page is quite important and the other subsequent pages are connected to its different links.
* Then we will create the different web pages that will connect to the home page. We can also create many other pages that will connect to that subsequent webpage.
* To make the website more responsive, we can do the linking through different images, buttons, etc. These can increase the approachability of the website.
* The website should look attractive to get a click from the users.
* The languages HTML, CSS, and Javascript are used to create, decorate, and make it more dynamic respectively. Using all these three basics parts we can create good web pages.

**WHAT ARE HTML, CSS, AND JAVASCRIPT?**

* HTML is also known as Hypertext Markup Language which is used to create the core of web pages.
* CSS also known as Cascading Styling sheets is used to make the webpage more attractive.
* Javascript is rather used to make the web pages more dynamic by providing fluidity through linking, buttons, etc.
* These languages together form the basic part of web development.
* Web development is becoming a trending topic in the coming years with new versions of programming languages. Creating a customized website will not be that hard and anybody who possesses the basic knowledge will surely be able to do it.

**BENEFITS OF HTML:**

**1. Simple and easy to use:** What happens when you need to make changes to your website and the developer who had built it is not available? This is where the owners of HTML have an edge over their high-tech counterparts. Whether a freelancer or a developer, almost everyone is well-versed in the use of HTML. So, you would have more options — a sure bet to snap up a brilliant bargain.

**2. Most browsers support HTML:** Most browsers support websites based on HTML. What it means is that the visitors to your website would be able to view it on their preferred browsers without any issue. This enhances the user experience.

**3. HTML and XML syntax are similar:** Over the years the use of XML platform to store data has been gaining traction. The similar syntax of XML and HTML platforms makes it possible to use each other in tandem.

**4. Free of cost:** Because HTML does not need plugins or any other software, it is available free of cost. On the other hand, content management systems that operate on open source may not always be free.

**5. Friendly with search engines:** If designed with clean and validated HTML code, an HTML website is the easiest to access for the crawlers on search engines. Flexibility aside, it provides the best SEO results with the least complications.

**BENEFITS OF CSS:**

* Easy maintenance
* Platform Independence
* Greater consistency in design
* More formatting options
* Lightweight code
* Search engine optimization benefits
* Ease of presenting different styles to different viewers
* Greater accessibility

**BENEFITS OF JAVASCRIPT:**

1. Trust is everything

No matter how many useful features a programming language can provide you. But if that language is not trusted, then we will always have a point in our mind that anything can happen. Although this case will take place with other languages only, but not with JavaScript. This is because JavaScript is one of the most trusted programming languages, and it is being used for several years, within which several improvements took place in this programming language.

Another benefit of this trust is that you would be able to work in any condition, as you will know how far you can go with this language and in what conditions.

2. Client-Side worker

We already have mentioned this fact above that JavaScript is a client-side worker, and you can make changes from the client-side with the help of this programming language.

The most significant benefit of using this language on the client-side is that you would be able to add up a good interaction between the users and web pages. You must have noticed that on some websites when you click on a button, nothing takes place, but work gets done. This thing happens in those cases where JavaScript is not used, but in the case of those web pages which use JavaScript, you would be able to notice better loading, clickable items, and many more such things. In short, you would be able to notice better interaction in web pages made by JavaScript.

3. Easy to learn

Getting started with JavaScript is one of the most straightforward tasks, firstly you don’t need anything extra, such as a program or anything else. The second thing is that it is an open-source program, so you would be able to get free content regarding JavaScript learning from various places online.

Another advantage of JavaScript is that you would be able to create high-end projects even during the learning period of JavaScript.

4. Powerful as nothing else

Till now we have discussed some features of JavaScript. But now we have come to the main point, which is the power of JavaScript. In the case of power, we can say that JavaScript has a massive support of powerful frameworks. With the help of which you would be able to get several features to use in your projects with JavaScript.

5. Unique features

People think that the language is easy to learn because of which you would not be able to get some great features. But that’s not true, as this programming language offers several high-end features with the help of which you can create some outstanding projects.

6. Support for multiple tasks running

JavaScript offers you an event loop module feature with the help of which you would be able to take advantage of multiple tasks running at the same time. A lot of people think that it will make their system works slower, but it’s not the case, as when a single code would be working full effort would be put on that code only.

Although the loop is responsible for better and easy management of these multiple tasks.

7. Extended functionalities

With extended functionalities means that you would be offered third-party integration with JavaScript. This means if you think that you lack any particular feature, then you can add that to your project with the help of this 3rd party integration.

8. Multi-functional website development

One of the essential features of JavaScript is that you would be able to create highly-efficient multi-functional websites with it. While there are several competitors, who state that you would be able to create multi-functional websites with them. You would be able to do so, but the convenience level that JavaScript offers you. That you would not be able to get anywhere else.

**ABOUT THE PROJECT:**

The aim of the project was to build a responsive online application for Laundry which helps customers to get Laundry service online. Along with this, the application needs to be responsive as the application can be accessed through devices with different size of screens. One of big problem while ordering online is trust. Social media websites play a vital role to attract customers and make trust on their mind. Hence, Facebook API is integrated to the application. So, customers trust the quality and attract to get online services when they see the reviews and likes of their friends and relatives who used the service earlier.

Our Laundry Service website has multiple pages such as Home , About , Login/Register and Contact us. It is also responsive ,so can be accessed from different devices and different browsers .In home page we have the logo of our website, our Laundry name and How do we work. In About page it contain information about us. In Login/Register page the customer can either login or register.

For many people this online ordering feature will be quite useful as people get food in one click by just staying at their comfort zone.

**POINT TO BE NOTED:**

When wondering how to make a website responsive, think of touchscreens. Most mobile devices (phones and tablets) are now equipped with touchscreens. Some laptops are also catching up, offering touchscreen along with the keyboard functions.

Naturally, a responsive website will have to calibrate itself for being accessed via touchscreens. For example, let’s say there is a menu on the homepage.

On desktop view, each menu item must be large enough so that it can be pressed with a fingertip of a touchscreen.

On mobile screens, smaller elements like buttons should also be easier to detect and select.

To do so, use images, CTAs or optimize these elements to render properly on multiple screens.

**PROS OF RESPONSIVE WEB DESIGN:**

The main benefits of using a responsive website are:

* consistent visual experience;
* better user experience;
* no need for redirects;
* lower bounce rates;
* lower maintenance needs;
* high web page loading speed;
* no extra fees for creating and maintaining different versions;
* easy analytics reporting.

**RESULT:**

Web development had and has significant advantages over other solutions. Therefore, nowadays, responsive web design is a standard for websites.

As nowadays multi- responsive websites are more welcomed by various multinational companies as their primary website ,because multi- responsive website has various options which plays a vital role in convenience of customers

Satisfying customer needs is the primary aspect of most of filed related companies hence they go forward in creating responsive websites and they focus more on website development ,ui of website and the responsive functionality of the website which make the user attracted.

**CONCLUSION AND FUTURE SCOPE :**

Thus we have learned the aspects of creating a multi-page responsive website . Also gained knowledge about many thing in this project such as linking different webpages, creating home pages, implementing the website, etc.

The amount of effort that goes into establishing responsiveness is directly proportional to the experience of the end-user. Keep in mind that users expect any website to be perfectly complementary with every single device they own – desktop, tablet, or mobile. If a website’s responsive design does not align with a certain device resolution (especially a commonly used device), the site is at risk of missing out on a segment of its target audience. Avoid this by investing time and research into studying how to make a web page responsive at the beginning of a project.