

WEB DEVELOPMENT COMPUTER NETWORKS

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Abstract: Web development purpose of website design research is to find out how the users interact with websites, what are their needs and what can be done to solve their problems. Make improvements to your website in small incremental ways to make sure they make the right impact. developing a simple single static page of plain text to complex Web-based Internet applications, electronic businesses, and social network services.

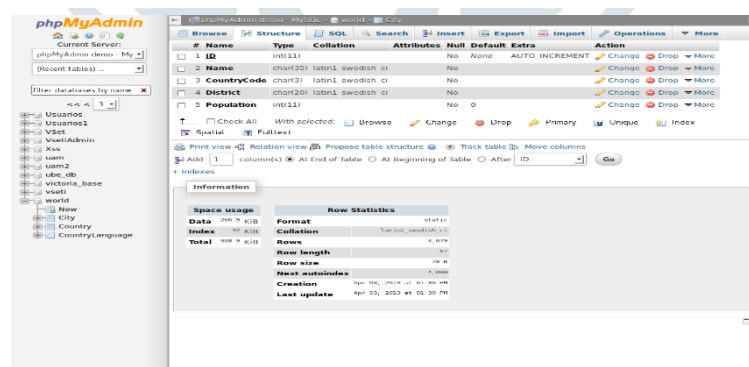
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INTRODUCTIONS:

Web development is the work involved in developing Web site for the Internet or an intranet. Web development can range from developing a simple single static page of plain text to complex Web-based Internet applications, electronic businesses, and social network services.

A web app developer engineer who is involved in the development and design of web and/or network applications. They work in a variety of organizations of any size, and some work as independent freelancers.

Web development takes into account many security considerations, such as data entry error checking through forms, filtering output, and encryption. Malicious practices such as SQL injection can be executed by users with ill intent yet with only primitive knowledge of Web development as a whole. Scripts can be used to exploit Web sites by granting unauthorized access to malicious users that try to collect information such as email addresses, passwords and protected content like credit card numbers.



NEED FOR WEB DEVELOPMENT:

In Web Development is another huge accomplishment is Movement of user interface.

The situation accepts technologies with all new UI self-dependent Glance around, and you'll see

that nearly everybody is attempting to become one on the grounds that the interest out there is very high.

In such a circumstance, you have to concoct approaches to make yourself stick out and be exceptional.

The strongest thing Web improvement encompasses a gigantic arrangement of rules and procedures each site engineer should think about. Sometime in the past HTML5, CSS3, JavaScript, PHP, and MySQL were utilized to be the fundamental web improvement advances to build up a site or web application.

BENEFITS OF THE WEB DEVELOPMENT:

Web Development is the most economic and easiest way for a company to thrive in the world of online market. They are one of the extremely recommended methods of website experts. This is not a surprise, since web software has the long list of benefits that anyone can gain. The software can take the guesswork to build a website for less skilled users. What's more, it can create within few times. Even a number of the best open-source and best website development software can be your great alternative to spend limitless of hours troubleshooting and writing code. All these and more are the benefits you can earn when using a software for your website.

A responsive and optimized mobile site provides a much better user experience for the visitor. Therefore, it is much more likely that they'll stick around for a longer period of time and explore different areas of your site. Alternatively, if your site isn't responsive, it is much harder to keep the visitor engaged and therefore more likely that they'll bounce.

First impressions are everything, so whether someone is visiting a website for the first time from their desktop or their smartphone, you want them to have a consistently positive experience. If visitors must do a lot of zooming, shrinking and pinching their screens during their first visit, they're likely to give up and try another website.

FEATURES OF THE WEB DEVELOPMENT:

Gathering Information: Purpose, Main Goals, and Target Audience:

The most important task at this point is to get a clear understanding of your future website purposes, the main goals you wish to get, and the target audience you want to attract to your site.

Planning: Sitemap and Wireframe Creation

If a sitemap provides the blueprint for your whole website, a wireframe represents the blueprint for a single page (or group of pages). It's what you'd see if you could take your sitemap, then zoom in on and enhance a single page in that high-level map. Like the sitemap, a wireframe captures hierarchy.

Design: Page Layouts, Review, and Approval Cycle

During the designing phase, the needs and requirements of the client and the target audience must be considered at all times. The website layout is the result of a designer's work. The website layout can be a graphic sketch or an actual graphic design

Content Writing and Assembly

A Website content writer or web content writer is a person who specializes in providing relevant content for websites. Every website has a specific target audience and requires the most relevant content to attract business.

Coding

The basic building blocks of a website are HTML and CSS codes. The more advanced coding languages used in websites are jQuery, JavaScript and PHP. Honestly, if you are using a drag & drop website builder, you really only need HTML and CSS to start.

Testing, Review, and Launch.

Testing is one of the more important steps of the web development process. The reason why it is so important is that every single link should be tested to make ensure that no broken links exist among them. Every form, the script should be checked to find every possible type.

Maintenance: Opinion Monitoring and Regular Updating

Website maintenance is the act of regularly checking your website for issues and mistakes and keeping it updated and relevant. This should be done on a consistent basis in order to keep your website healthy, encourage continued traffic growth, and strengthen your SEO and Google rankings.

Promotions:

The advancements are likewise a necessary step for website to awareness of the peoples. To become more impressive, we can do website promotion that are listed below:

1. E-mails
2. Social media
3. Web logs
4. Articles
5. Blog

**TECHNIQUES:****Applications developer:**

A web app developer is a software designer or engineer who is involved in the development and design of web and/or network applications. They work in a variety of organizations of any size, and some work as independent freelancers.

Game developer

Step 1: Develop High Level Math Skills

Step 2: Get a Bachelor's Degree

Step 3: Build a Portfolio

Step 4: Find an Entry Level Position as a Game Programmer

Step 5: Advance to Become a Software Developer.

Multimedia programmer

Multimedia programmers are responsible for designing and creating multimedia computer products that combine text with sounds, pictures, graphics, video clips, virtual reality, digital animation and other forms of media

SEO Specialists

SEO specialists are marketing professionals who use research and analysis to improve a website's ranking on search engines like Google. They find the most popular and relevant keywords used in search engine queries and insert them into websites, helping search engines find those sites and display them to web users.

UX designer

A UX designer is concerned with the entire process of acquiring and integrating a product, including aspects of branding, design, usability and function. It is a story that begins before the device is even in the user's hands.

UX researcher

User Experience (UX) Researchers work to answer the most challenging questions in design. They reveal what users need from our products by conducting primary research, exploring behaviours and motivations, and working with teams of designers, product managers, engineers, and others to develop new features.

Web content manager

A web content manager is responsible for overseeing the content that appears on a website. They often manage a team of content producers and assign projects and tasks to employees. Many web content managers also keep track of a website's traffic statistics and search engine rankings

IMPACT OF WEB DEVELOPMENT:

Software companies and independent web developers alike have a lot to look forward to with the continuous rise of IoT (Internet of Things) devices on the global market.

According to research, over 20 billion IoT devices will be active and connected to the internet by the year 2020. Of that, 90% of automobiles will also be connected to the web, allowing for a larger plethora of quality of life features for passengers.

This showcases a huge potential marketplace for web developers to implement their knowledge and expertise into IoT devices and their respective software packages.

AI is the future trend of web space development the important components of a website are Artificial Design Intelligence (ADI) that can build and offer developers options for customized software. In the future, the way websites are created can make a major impact.

POSITIVE ASPECTS OF WEB DEVELOPMENT:

important aspects of web development are:

1. Navigation
2. Visual Design
3. Content
4. Web Friendly
5. Interaction
6. Information Accessibility
7. Intuitiveness
8. Branding
9. Turnaround Time
10. Conversion

CRITICISMS OF THE WEB DEVELOPMENT:

If you can't articulate your reaction, stop there and keep it to yourself. As I've said, gut reactions can be valuable, but we need to explore them. Think of the last time you saw one of your favourite websites after a redesign. You may have liked it or hated it right away, but after using the website for a bit, your opinion (hopefully an intelligent one) became more moderate. Take the latest redesign of Facebook, for example. I was immediately confused. I think I actually typed something to that effect in the search field, which had been moved to where I thought the status update field would be. But I quickly found my way around and was soon comfortable with it. What's more, the changes made a lot of sense overall. My gut reaction was expected; big changes can be disruptive, but I needed to look more closely to see that these changes were positive.

The more specific you are in praising or knocking a design, the more helpful your critique will be. Use descriptive terminology, speak the language of design, relate your opinion back to established principles. Think of your critique as one side of a debate in which you have to defend your opinion.

A personal website can be judged on how well it captures the personality of the designer. A mobile-specific website should be evaluated on a mobile device. And so on. This one can be hard, especially if you don't know the context or audience. That said, avoid critiquing a design without knowing the context going in. Sure, by understanding visual design principles, you can critique just about any design on that level, but that's usually just scratching the surface—helpful, but not nearly as helpful as it would be if you took the time to go deeper.

It's probably the best thing you can do to give better criticism and to become a more educated designer. In order to properly form and articulate an opinion about a design, we need to know the principles and patterns we're dealing with. And without understanding the language, we can't easily have a conversation about the quality of the design.

CONCLUSION:

Overall, the Web Development This module gave a fundamental understanding of the models that were introduced in the first course of this series, Web Site Planning Models. You will see both models applied throughout this course, as a way of making the complex concepts of Web development concrete. In addition, it is hoped that Web Team continues to put a human face on the Web development process.

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