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## Web application development tutorial pdf

Last updated on April 29, 2020 6.4K Views A website is basically a collection of different web pages that are all linked together and can be accessed by visiting a home page. It is composed of several elements and it is important to take care of each of them during installation. This web development tutorial will give you complete guidance about building a website and the skills needed in the following sequence: What is Web Development? Web development is essentially the tasks associated with developing websites for hosting via intranet or internet. The web development process involves web design, web content development, client-side/server-side scripting and network security configuration. A website can be either a simple one-page site, or it could be an incredibly complex web application. When you view the website on the web in a browser, it is because of all the processes involved in web development. Why do we need it? Websites act as a bridge between those who want to share information and those who want to consume it. Helps you reach potential customers at a global stage. There are various reasons that show the importance of a website: A website is an online brochure that helps you advertise business offers. It provides a platform to reach a global customer base far away and globally. You can also have the opportunity to influence readers through blogs on a website. You can display all your ideas and publish them to a website. If you have a business idea, you can open an online store and sell your products or services online. You can communicate with your customers, giving them the opportunity to express themselves. Now that you know what web development is and why we need websites, let's go into the depth of this web development tutorial and learn about the basic skills needed. Basics: Web Development Tutorial Websites are a bunch of files stored on computers called servers. Servers are computers that are used to host websites and store website files. These servers are connected to the giant network called The World Wide Web. Browsers are programs that you run on your computer. They upload the site files via the internet connection. Now there are 3 main components that make up each site: HTML - HyperText Markup Language (HTML) is the foundation of all websites. It's the main type of file that's uploaded to your browser when you look at a website. This scripting language is used to structure the different parts of our content and to define their meaning or purpose. CSS - Cascading Style Sheets (CSS) is used for styling HTML elements. It offers 1000s of styling functions, which are used for style of HTML elements defined by us. It is the language we use to style and layout our web content. JavaScript - This programming language allows you to interact with items on the site and manipulate them. While CSS adds style to HTML, JavaScript adds interactivity and makes a site more dynamic. Front End Skills It is to make sure web apps download quickly and are responsive to user interaction, regardless of user bandwidth, screen size, network, or device capabilities. Front End intermediate skills include: Responsive Design – We use different gadgets, such as computers, phones, and tablets to look at web pages. Web pages adapt to the device you're using, with no extra effort on your part. This is due to the responsive design. A major role of a front-end developer is to understand the principles of responsive design and implement them on the coding side. It is an intrinsic part of CSS frameworks like Bootstrap. These skills are all interconnected and so, so you learned one you will often be making progress in others at the same time. Build Tools – Modern web browsers are equipped with developer tools for testing and troubleshooting. These tools allow you to test web pages in your browser and find out interpret the code page. Browser developer tools usually consist of an inspector and a JavaScript console. The inspector lets you see the HTML runtime show on your page, what CSS is associated with each item on the page. The JS console allows you to view any errors that occur as your browser tries to run the JS code. Control/Git version – The control version is the process of tracking and controlling changes to the source code, so you don't have to start from the beginning if something goes wrong. It is a tool that is used to track previous changes so that you can go back to an earlier version of your work and find out what went wrong without breaking everything down. Front End Frameworks CSS and JavaScript frameworks are collections of CSS or JS files that perform different tasks by providing common functionality. Instead of starting with an empty text document, start with a code file that has a lot of JavaScript already present in it. Frameworks have their strengths and weaknesses, which makes it important to choose the best framework for the type of website you build. For example, some JS frameworks are excellent for building complex user interfaces, while others excel at displaying all of the site's content. Some of the popular frameworks are: This was about the front-end skills that are needed to build a website. Now let's get on with this web development tutorial and know about different back end skills. Back End Skills The back-end layer forms a dynamic connection between the front end and the database. To get this layer of work it is important to know at least one of the programming languages, such as Python, Java, PHP, Ruby, etc. and knowledge of server-side frameworks, would be NodeJS is Python is an open-source, object-oriented programming language that was launched in 1991 and since it became one of the preferred languages of most software and web developers. Java is an open-source, high-level programming language that has been released Sun Microsystems in 1996. It follows write Once Run Anywhere (WORA) approach that makes it compatible to run on any platform. PHP is an open-source scripting language on the server side, used to develop the back-end logic of an application. It is a powerful tool to make dynamic and interactive sites. NodeJS is an Open-source JavaScript framework used specifically to create the back-end or server of an application. Through NodeJS, JavaScript can now finally run on the server side of the web. Data and Databases The data layer is a massive repository of information. It contains a database repository that captures and stores information from the front end through the back-end. A prerequisite is to be aware of how data is stored, edited, recovered, etc. An understanding of the databases, would be MySQL, MongoDB is a must. MySQL is an open-source, relational database management system that provides multi-user access and supports multiple storage engines. MongoDB is known for its ease of use and speed in handling a large amount of data. It is an open-source, object-oriented NoSQL database that is highly scalable and effective in handling unstructured data. Server and Deployment Skills Servers are basically computers that store website files and other resources would be databases. Server Setup To make a website publicly accessible on the internet, it must be installed on a server. Once you have the domain name and server space, it's time to set up the site on the server. The first thing is to direct the domain name to the unique IP address of the server. Then you need to configure the website files and, finally, the database and other configurations. Deployment Tools To get files from your computer on the server, you need a protocol. This is essentially a method of transporting files or other data to and from a server. The deployment tool stores FTP/SFTP settings, and when a change is pushed into Git to the main branch, the tool will transfer the files to you. So you don't need to remember what files you've changed, reducing the number of mistakes you make. So these are some of the important guidelines and skills you need for web development. With this, we have come to the end of our web development tutorial. I hope you understand different aspects of site development and the different skills you need to learn. Check out our Full Stack Web Developer Masters Program, which comes with instructor-driven live training and real-life project experience. This training makes you competent in skills to work with back-end and front-end web technologies. It includes training on Web Development, jQuery, Angular, NodeJS, and MongoDB. Got a question for us? Please mention it in the comments section of the Web Development Tutorial blog and we will return to you. If you're looking for web development tutorials, you're in the right place. Whether you have just started learning to develop websites or are a graduate of IT, these top 24 web web tutorials will benefit you in many ways. Let's find them with Designveloper. What is Web Development? A website can be either a simple one-page site, or it could be an incredibly complex web application. Web development is essentially the tasks associated with developing websites for hosting via intranet or internet. 1. Codecademy Codecademy is a go-from option for newbie web developers, programmers, and data scientists. More than 45 million students learned to code from Codecademy and achieved success in their careers. As for web development tutorials, Codecademy will help master HTML, CSS, and JavaScript languages. You will learn the steps to create a basic website and then build interactive web apps. After you send the code, you'll get instant feedback to find out if you're on the right track. You can start learning web development with Codecademy right now for free. If you want to experience advanced features, you can upgrade your pro account at \$19 per month. 2. HTML Dog's Beginning HTML Guide If you want to learn to develop a website using HTML5, HTML Dog's Beginning HTML Guide is a useful tutorial. There are three levels of learning: Beginner, Intermediate and Advanced. As a newbie, you can choose HTML Beginner Tutorial to start learning basic concepts, such as tags, attributes, items, links, titles, lists, etc. Once you master the base, you can move to the intermediate level with HTML bits-and-bobs, such as span and div, meta tags, sectioning. Html Advanced Tutorial is for those who want to explore the depths of HTML5. 3. Ruby on Ruby Line Tutorial on Tutorial Shines is a comprehensive paid web development course. It teaches you to develop and implement web applications with Ruby on Rails open-source web framework. You can buy an eBook, a series of offline videos, or a self-paced online course to find out at any time you want. Another option is to buy find out quite all access Buble, which includes full Ruby on Tutorial shines and other useful knowledge. 4. Mozilla Developer Network Mozilla Developer Network offers a collection of tools and documents to help you easily develop a web. You can choose to either learn HTML tutorials, CSS tutorials or JavaScript tutorials. Each tutorial comes with three levels and lots of training materials. 5. GitHub for Beginners Most web developers join GitHub to share their projects and connect with others. The GitHub beginner tutorial shows you how to build a profile on this network and use it effectively. No coding skills required; everyone can be on GitHub. 6. Non-programmer tutorial at Python 3 Non-Programmer's Tutorial for Python 3 is a web development tutorial for those who want to learn Python language and have no previous experience of it covers all the basic knowledge you need to know about Python, from functions, Boolean expressions, dictionaries, recursion, etc. It's a great place to start for Python web developers, and it's free! Free! that the Non-Programmer tutorial for Python 3 does not include advanced topics about Python. If you want to learn more about this language, you should check out the Python Tutorial by Guido van Rossum. 7. 30 days to find out jQuery 30 days to find out jQuery is a paid tutorial, but don't worry! It is useful to equip you with basic knowledge about jQuery. Here are some engaging lessons from this course: Events 101 Events 201 Full Control with anima Say hello to handlebar8. Curriculum for N00bs You should check The Curriculum for The N00bs course, definitely! It's a perfect web development tutorial, and also a roadmap for you to become a rock coding star. Note that it may take 2 to 6 months to complete this course. Topics covered: Start with the basics, learn HTML and CSS. Learn JavaScript and jQuery to strengthen your knowledge. Learn to work with APIS. Get to know the basics of Git. Learn Ruby's programming language. Learn web development with Ruby on the wrong sands. Start your web development journey. 9. Coding traps for beginners Anyone can make mistakes and web developers too. That's why you should take the coding traps for tutorial beginners to know common coding traps and learn from the mistakes of others. Worried about handling unnecessary DOM or ternary redundancy? Tutorial also gives you some suggestions to solve these problems, so check it out right now! 10. Full Web Developer Course 2.0 Name says it all: Full Web Developer Course 2.0 is what you need to start your career as a web developer. It includes 308 sessions in video format and covers popular programming languages, such as HTML5, CSS 3, JavaScript, PHP, etc. The best part is that you can complete the course within six weeks only. 11. Web Developer Bootcamp Nearly 500,000 people have joined Web Developer Bootcamp to learn to develop the web. It's a compelling reason why you should check out web development tutorials. In this tutorial, you'll: Create a real web app and blog app from scratch on your own. Write a browser-based game. Deploy responsive browsing on websites. Create beautiful responsive layouts using Bootstrap. And more! 12. Become a web developer from scratch interested in how the Internet works and create your own websites using state-of-the-art technology? If so, join the tutorial Become a web developer from scratch! During this 30-hour course, you will be walked through frontend development (JavaScript, jQuery, HTML5, CSS3, Bootstrap) and backend development (PHP, MySQL). You'll also get the complete Freelancer ebook guide and 30 amazing HTML responsive templates for free. 14th Full Stack Web Developer Fullstack Web Developer Course will help you: Learn HTML, CSS and JavaScript. Learn jQuery and Ajax to create responsive websites between browsers and on the page. PHP and MySQL. Create a complete sign-in/registration system with members-only pages. Does that sound good? Join join Of course, right now to get all this! 15. Ultimate Web Designer & Developer: Build 23 Projects! Ultimate Web Designer & Developer Course: Build 23 Projects! Course includes 246 lectures that teach you about web design, web development, and career building. This course is the right choice for both web designers and web developers. In this course, you will be challenged to build over 23 custom projects, for example, designing a custom web graphic, re-designing a blog, encoding the Google landing page, creating orbital animation planets in CSS3, etc. These will help you build your skills before you start working in the real world. 16. Python and Django Full Stack Web Developer Bootcamp If you are interested in learning these topics: HTML5, CSS3 Javascript, jQuery, Bootstrap 3 and 4, Document Object Model, Python, Django Basics, Django Templates, Django Forms, Django Admin Personalization, ORM,

Class-Based Views, REST APIs, User Authentication, should join Python and Django Full Stack Web Developer Bootcamp! That's it! 17. Advanced Web Developer Bootcamp Advanced Web Developer Bootcamp provides you with lectures, code-alongs, projects, research assignments, exercises and solutions, slides, downloads, and readings. It's designed to help you become a professional web developer This is one of the coolest web development tutorials that require you to have a basic understanding of HTML, CSS, and JavaScript. Besides, you don't have to worry about anything else. Each lecture is easy to understand and follow the techniques. 18. Essential Web Developer - Build 12 websites In the process of Essential Web Developer, you will create interactive and responsive sites using HTML, CSS, JavaScript, jQuery, PHP, and MySQL. There is no prior coding ability or knowledge required. 19. Complete Web Developer – Beginner to Expert Web Complete Web Developer Bootcamp will give you step-by-step instructions to become a web developer, and then move on to a web development expert. He has over 175 lectures, 22+ hours of videos and over 30 hours of exercise. You will learn HTML, CSS, JavaScript, jQuery, Ruby, Rails, Git, eCommerce with Stripe, Servers, Heroku, Bootstrap, Databases, etc. 20. Become a professional web developer (V. 3.0) If you are looking for a course to learn about web development and web design, become a professional web developer (V. 3.0) course might suit your needs. It does not give you basic knowledge of programming languages, but also keeps you up to date with modern tools, such as Angular 2 and Ruby on the rails. 21. Complete Front End Web Developer Bootcamp Complete Front End Web Developer Bootcamp is another good choice for you to learn HTML5, CSS, JavaScript, and jQuery. Note that this course focuses only on the front end web development. 22. Full Stack Web Development Want to become a full-stack web developer who can handle many tasks? Full Stack Web Development Course will help you become that person! here here what you will learn from web development tutorials: Frontend: HTML, HTML5, CSS3, Twitter Bootstrap, JavaScript, jQuery. Backend: Node.js, Meteor.js, Angular 2, PHP, Ruby on Rails. Database: MySQL, PostgreSQL, MongoDB, CouchDB, Apache Cassandra. Other key technologies: Memcached, Redis, Apache Lucene and Apache Solr. Debugging / Control version: GIT, Subversion, Task Runners (Grunt, Gulp), Debuggers (Xdebug, Firedebug). 23. Web Development: A Primer Web Development: A Primer course shows you the differences between technologies and what you should focus on as a web developer. It is suitable for those who have no knowledge about web development but want to join the industry. 24. W3Schools Online Web Tutorials W3Schools is renowned for learning, testing, training about web development. That's why you shouldn't miss it! No matter what you want to learn, W3Schools have you covered! After completing the tutorial, you can get a certification to show in your resume and job networks. Web Development Tutorials Websites are a bunch of files stored on computers called servers. Servers are computers that are used to host websites and store website files. These servers are connected to the giant network called the World Wide Web. There are 3 main components that make up each website: HTML - HyperText Markup Language CSS - Cascading Style Sheets JavaScript 1. CSS and JavaScript Front End Frameworks and JavaScript frames are COLLECTIONS of CSS or JS files that perform different tasks by providing common functionality. Frames have their strengths and weaknesses, which makes it important to choose the best framework for the type of website you build. Below is some of the popular frames to build a website. 2. Front-end skills It is important to make sure that web applications download quickly and are responsive to user interaction, regardless of user bandwidth, screen size, network, or device capabilities. Intermediate Front End skills include: Version Control/Git Responsive Design Build Tools Over for you! Now you've known the best web development tutorials on the Internet. Take a look at each of them, and choose the course that suits you best to start learning! Learning!

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