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**Assignment #2**

1. Web Developer:

a. ASP.NET is an open-source server-side web application framework designed for web development to produce dynamic web pages. It was developed by Microsoft to allow programmers to build dynamic web sites, web applications and web services.

b. React (JavaScript library) React (sometimes styled React.js or ReactJS) is an open-source JavaScript library for building user interfaces. It is maintained by Facebook, Instagram and a community of individual developers and corporations.

2. Frontend Web Developer:

a. Implement A/B testing: A/B testing is the process of experimenting with different options in order to measure the relative success of each one. Where the web is concerned, A/B testing can make it clear which design choices are most effective; clear to the designer and (more importantly) clear to the client.

b. Asynchronous JavaScript and JSON (or AJAJ) refers to the same dynamic web page methodology as Ajax, but instead of XML, JSON is the data format. AJAJ is a web development technique that provides for the ability of a webpage to request new data after it has loaded into the web browser. JSON is a format for encoding information returned by the server.

3. Backend Developer:

a. web service APIs: A Web API is a development in web services where emphasis has been moving to simpler representational state transfer (REST) based communications.[4] RESTful APIs do not require XML-based web service protocols (SOAP and WSDL) to support their interfaces.

b. A service-oriented architecture (SOA) is a style of software design where services are provided to the other components by application components, through a communication protocol over a network. The basic principles of service oriented architecture are independent of vendors, products and technologies. Service-oriented architecture (SOA) is an approach used to create an architecture based upon the use of services. Services (such as RESTful Web services) carry out some small function, such as producing data, validating a customer, or providing simple analytical services. SOA is a valid approach to solve many of the architectural problems that enterprises face today. However, those who implement SOA typically look at it as something you buy, not something you do. Thus, many SOA projects are about purchasing some technology that is sold as 'SOA-in-a-box.' You get something-in-a-box, but not SOA, and that only adds to the problems. While SOA enjoyed varying success in the past, the movement to cloud computing provides some renewed value to SOA. Clouds are typically API- or service-driven, and thus are service-oriented. As cloud computing becomes more popular, more enterprises will rethink the use of SOA, which includes the use of service directories, service governance, orchestration, and other technologies related to SOA. (Look for The SOA Advisor newsletter is a series of articles written by Thomas Erl )

4. Javascript Developer:

a. AWS, shell scripting, and configuration management systems; Amazon Web Services: AWS Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and IIS.

Shell scripting is a way to automate command-line tasks.

software configuration management (SCM or S/W CM)[1] is the task of tracking and controlling changes in the software, part of the larger cross-disciplinary field of configuration management.[2] SCM practices include revision control and the establishment of baselines.

b. Angular: AngularJS (commonly referred to as "Angular" or "Angular.js") is a complete JavaScript-based open-source front-end web application framework mainly maintained by Google and by a community of individuals and corporations to address many of the challenges encountered in developing single-page applications.

5. Node Developer:

a. SaaS software: Software as a service (SaaS; pronounced /sæs/) is a software licensing and delivery model in which software is licensed on a subscription basis and is centrally hosted. It is sometimes referred to as "on-demand software". SaaS is typically accessed by users using a thin client via a web browser. Software as a service (SaaS) is a software distribution model in which a third-party provider hosts applications and makes them available to customers over the Internet. SaaS is one of three main categories of cloud computing, alongside infrastructure as a service (IaaS) and platform as a service (PaaS).

b. Bootstrap is a free collection of tools for creating a websites and web applications. It contains HTML and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions. From http://getbootstrap.com/: Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile first projects on the web.