Full stack description

From jquery onwards as till bootstrap i did on the website:---

Topic--Jquery

One Liner--The Minified framework

One Small Liner—Jquery is the ultimate on starting at client side Scripting framework.

Program Snapshot:--

1>4 hours

2>2 sessions

3>Access to the repository of codes

4>Implementing on project as well

Description:--

Jquery is one of its kind minified framework used for client side scripting which involves

in proper data filtering sent to server side .Jquery provides some of the built-in plug in that

facilitates some of the modern events and their events handlers.

Concept learned:

1>Understand the concept of client side functionality

2>prepare the multipart data using json

3>create validation code

4>use some high end plug in

Eligibility:

Under standing of html and javascript

Topic--Angular JS

One Liner--The Ulimate Client side framework

One Small Liner—Angular JS is the framework built on MVC architecture for client side Scripting.

Program Snapshot:--

1>8 hours

2>4 sessions

3>Access to the repository of codes

4>Project implementing on the concept

Description:--

A web page is composed of html but it displays the static designing but at the same time

for adding the dynamism we need to have the extensibility that is given by the angular js.

It will extend the power of general html apart from normal facility and with that it is built on mvc

architecture that developes on layered solution for custom page .

Concept learned:

1>Implement the concept of mvc layered solution on client side

2>Clearing the concept of json while using angular js

3>Use in built validation module

4>Writing down the code of controller and service files

Eligibility:

Understanding of html and javascript

Topic--Angular 4

One Liner--The Most Modern Client side framework

One Small Liner—Angular 4 is the framework built on Component/Service architecture for client side Scripting.

Program Snapshot:--

1> 12 hours

2>6 sessions

3>Access to the repository of codes

4>Major project on angular 4

Description:--

Angular 4 is one of the most latest framework on client side scripting where we can see the concept of reach UI as here we can integrate one component within another component using selector meta data .We can implement the concept of bootstrap and primeNg for having responsive design on UI part and at the same time typescript code for background support.

Concept learned:

1>Implement the concept of component/service layered solution on client side

2>Understanding the concept of dependency injection.

3>Use in built validation module

4>Writing down the code of typescript component class and service class

Eligibility:

Understanding of html and JavaScript and JQuery

Topic—React JS

One Liner—The Client-Side framework for re-usable UI component

One Small Liner—React JS is the framework built on the principle on re-usable component

Program Snapshot: --

1> 12 hours

2> 6 sessions

3> Access to the repository of codes

4> Project on React JS

Description:--

React is a library for building user interfaces. The creation of reusable UI components is the core in React JS.In some cases React visualizes as the view of MVC offering a simpler programming model and better performance. React components can also run on the server using Node.

Concept learned:

1>Introduction to ReactJS

2>React Components

3>Component inter communication

4>Component composition

Eligibility:

Understanding of html and javascript and jquery

Topic—Node JS

One Liner—The Server environment—JavaScript based

One Small Liner—Node JS --a non-blocking server side written in JavaScript

Program Snapshot:--

1> 6 hours

2>3 sessions

3>Access to the repository of codes

4>Project on Node JS

Description:--

Node JS is an open-source runtime environment used for development of server-side web applications. Node JS applications use JavaScript and can be run on a wide variety of operating systems. Node JS is based on an event-driven architecture that is designed to optimize an application's throughput and scalability for real-time web applications. Over a long period of time, the framework available for web development were all based on a stateless model. A stateless model is where the data generated in one session is not maintained for usage in the next session with that user.

Concept learned:

1>Introduction to Node JS

2>Node JS with MongoDB

3>Node JS with Express

4>Node JS Modules

Eligibility:

Understanding of Angular 4 and JavaScript

Topic—Express JS

One Liner—The Server environment—JavaScript based

One Small Liner—Node JS --a non-blocking server side written in JavaScript

Program Snapshot :--

1> 6 hours

2>3 sessions

3>Access to the repository of codes

4>Integration on Node JS with Express js

Description:--

Express.js is a Node js web application server framework, which is designed for building single-page and multi-page web applications. It has become the standard server framework for node.js. Express is the backend part of something known as the MEAN stack.

Concept learned:

1>Introduction to Express JS

2>Express JS request and response

3>Express JS routing

4>Express JS other modules

Eligibility:

Understanding of JavaScript and Node JS

Topic—Core Java

One Liner—Java with concept understanding

One Small Liner—Internet applications run on java

Program Snapshot:--

1> 6 hours

2>3 sessions

3>Access to the repository of codes

4>Conceptual document and assignment on core java

Description:--

Core java includes all the concept that holds the key features of OOP and its implementations. Using core java concept, we will operationalised coding standard and core business logic in web as well as desktop applications.

Concept learned:

1>Introduction to core java and oop

2>Collection framework

3>Thread

4>Exception handling and file handling

Eligibility:

Understanding of programming concept

Topic--j2ee

One Liner--The Advance java concept

One Small Liner—Advance java concept with development of web application

Program Snapshot:--

1> 12 hours

2>6 sessions

3>Access to the repository of codes

4>Major project on j2ee stack

Description:--

J2EE is a platform-independent, Java based environment for developing, building and deploying Web-based enterprise applications online. The J2EE platform consists of a set of services, APIs, and protocols that provide the functionality for developing Web-based applications. This is basically used to develop the enterprise applications and also web applications. J2EE consists of Servlets, JSP, JDBC, EJB.

Concept learned:

1>Web Application Architecture

2>JSP and Servlet

3>EJB

4>Implementing Jdbc based database interaction

Eligibility:

Understanding of core java

Topic--Spring

One Liner--The latest java-based web framework

One Small Liner—Spring—modular java-based web application development framework

Program Snapshot:--

1> 12 hours

2>6 sessions

3>Access to the repository of codes

4>project on Spring

Description:--

Spring is a *lightweight* framework. It can be thought of as a *framework of frameworks* because it provides support to various frameworks such as Hibernate, EJB, JSF etc. The framework, in broader sense, can be defined as a structure where we find solution of the various technical problems. The Spring framework comprises several modules such as IOC, AOP, ORM, WEB MVC etc.

Concept learned:

1>Introduction of Spring

2>Spring ioc

3>Spring aop

4>Spring mvc

5>Spring orm

6>Spring Security

7>Other spring modules

Eligibility:

Understanding of web application and core java

Topic--Hibernate

One Liner—The most demanded ORM framework

One Small Liner—Hibernate --implementing the concept of orm in web application

Program Snapshot:--

1> 6 hours

2>3 sessions

3>Access to the repository of codes

4>project on Spring with Hibernate

Description:--

Hibernate is an **O**bject-**R**elational **M**apping (ORM) solution for JAVA. It is an open source persistent framework. It is a powerful, high performance Object-Relational Persistence and Query service for any Java Application.

Hibernate maps Java classes to database tables and from Java data types to SQL data types and saves the developer from the common data persistence related programming tasks.

Concept learned:

1>Introduction of Hibernate

2>Concept of ORM

3>Session and SessionFactory methods

4>Configuration

5>HQL and Criteria

Eligibility:

Understanding of web application and core java

Topic—Web Service

One Liner—Rest and SOAP for API integration

One Small Liner—webservice used for communicating between heterogeneous system

Program Snapshot:--

1> 6 hours

2>3 sessions

3>Access to the repository of codes

4>project on Spring with Hibernate implementing webservice

Description:--

Web services are self-contained, modular, dynamic applications that can be described, invoked over the network to create processes. These applications can be local, distributed, or web-based. Web services are built on top of open standards such as TCP/IP, HTTP

Concept learned:

1>Introduction of webservice

2>Concept of REST

3>Use of REST Client and Postman

4>SOAP

5>SOAP UI

Eligibility:

Understanding of web application and framework

Topic—Unit testing

One Liner—Test your code before they deployed

One Small Liner—Unit testing is a process for testing the code logic using framework

Program Snapshot:--

1> 4 hours

2>2sessions

3>Access to the repository of codes

4>Implementation of test cases

Description:--

Unit testing is the process of testing your code on testing framework based on some

case study before deployment.

Concept learned:

1>Concept of unit testing

2>Junit

3>jasmine and karma

Eligibility:

Understanding of programming logic

**Core UI Development** – JSON, XML, HTML, CSS, JavaScript

**Advance UI / UX Development** – Bootstrap, jQuery, Angular, ReactJS, Express JS,

**Back End Development with JAVA, JEE** -

**Advance Development with Frameworks** – Spring, Hibernate/JPA, Webservices, Microservices

**Data Storage using RDBMS & NOSQL** - MongoDB, PL/SQL

**Application Testing** – Selenium, JMeter, Junit & Test NG

**Fundamentals of DevOps** – SVN, Git, Jenkins, Maven, AWS

**Live Project and Practice with Agile Development Methodology**