## Web Technologies Full Stack Curriculum





Programming Bootcamp		
Day	Торіс	Sub-topics
1	Concepts of OOPs, Language Basics	OOP, javac, java command, JDK JRE and API introduction, Operators, loops, class, objects, String, overloading, is-a, has-a relation, Introduce eclipse
2	Arrays, Constructors, Inheritance	Arrays, Object Arrays, how objects and primitive values are passed to methods Constructors, Inheritance, Polymorphism, Overriding, packages
3	Inheritance, Packages, Polymorphism	Run time polymorphism using overriding, Abstract class, Interfaces, Layered Architecture, accesses specifiers
4	Exception Handling, Introduction to IO	try, catch, throw, throws, finally, user defined exceptions, Byte and Char Streams
5	IO, File Handling	FileInputStream, DataInputStream, ObjectInputStream, File, Serialization, etc, Developing complex applications using files and arrays, etc
6	Multi Threading, Introduce Collections, sql	Threading basics, Runnable, synchronization, DeadLock, Fork Join
7	Collection with Generics	Interfaces, Implementations, List, set, tree, Generics, algorithms, Comparator, Comparable, equals, hashCode, Working with Dates
8	JDBC,Factory pattern	JDBC Architecture, Prepared Statement, ResultSetMetaData, RowSet objects, Transaction, Factory pattern
9	HTML,CSS,Java Script	HTML forms, Java script, Functions, Validations, basics of css, JSON
10	Servlets	Simple Servlet, Life cycle, Request & Response, Form Handling,
11	Servlets, JSP	concept of MVC, Forward, include, Session management, Simple JSP, implicit object, Custom Tags,
12	end to end application	end to end application development. Using MVC , ajax, REST
13	Case study	Case Study



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1	Java 7 & 8 features	Diamond operator, Strings in switch, Improved exceptional handling, lamda, default methods, new Date Time api, Resource handling, Automatic Resource Management and over view of xml, Functional Interfaces, Lambdas, Streams
2	Java 7 & 8 features continued, Introduction to spring	Streams, filters, Introduction to Spring, Spring different APIs
3	spring Core	Dependency Injections, Application Context, Bean Factory, Annotations
4	Spring Mvc,Boot	Boot, Dispatcher Servlet, Extracting request parameters, View resolvers, spring boot, spring micro services RestController
5	Spring Micro services	Eureka server, calling one service with another service, REST template
6	Node Js, Type Script, Angular	Introduction to Node, npm, type script, Angular, single page applications
7	Angular components	Creating components, communicationg using @Input,@output
8	Angular Services	Services, Injecting services,
9	Consuming REST services	Angular application consuming microservice, end to end flow
10	Code FURY	Code Fury and Final Assessment