

JAVA Full Stack Development					
Weekend Schedule	Weekday Schedule	Topic	Sub Topic	Lab Session	Assignments
Day-1	Day-1	Introduction To Fullstack			
HTML- Front End					
Day-1	Day-2	Introduction to Web	1) Overview of Web And web application		
Day-2	Day-3	Core concepts of HTML	1 . Elements and Attributes		
	Day-4	Important Tags	1) Text tags		
Day-3	Day-5	Forms	1) Whats is forms and why should we create a forms?		
	Day-6	HTML 5	1) Differences between HTML older version and HTML 5		
Day-4	Day-7	HTML 5	2) HTML Features with Examples		
CSS- Front End					
Day-4	Day-8	Introduction & Selectors	What is CSS		
Day-5	Day-9	coloring & formatting,	Types of Colors		
	Day-10	Layout	Introduction		
Day-6	Day-11	Flexbox	Introduction		
	Day-12	Grid	Grid vs Flexbox		
Day-7	Day-13	Animation & Transitions,	The Transitions Property		
Project 1 - Individual project on HTML & CSS					
Bootstrap- Front End					
Day-7	Day-14	Introduction to BootStrap	1)What is Bootstrap		
Day-8	Day-15	Layout & Components	1) BreakPoints		
	Day-16	Utilities	1)Background		
Day-9	Day-17	Flex	1) Direction		
	Day-18	Grid	1) Grid options		
Presentation Session-1 / Practical Case Study Analysis by students					
Project 2 - Individual Project on HTML, CSS & Bootstrap					
Javascript- Front End					
Day-10	Day-19	Introduction to	1) What is Javascript? Use of javascript?		
	Day-20	Basics of Javascript	1) What are the Datatypes? Example for each one of them?		
Day-11	Day-21	Operators	1) What is Operators?		
	Day-22	Conditions / Decession	1) What is decession making?		
Day-12	Day-23	Loops / Iterations	1) What is loops? Usage?		
	Day-24	DataStorage Techniques	1) What are the types of data storage?		
Day-13	Day-25	DataStorage Techniques	1) Arrays & Methods		
	Day-26	DataStorage Techniques	1) Array of Objects?		
Day-14	Day-27	DOM & Dom	1) What is DOM & Dom Manupulation Metthods?		
	Day-28	DOM	- Attaching Event		
Day-15	Day-29	DOM & Dom	Adding Css using Javascript		
	Day-30	Functions	What are Functions in JavaScript?		
Day-16	Day-31	Functions	Arrow Functions Advantages and Disadvantages		
	Day-32	Functions	Generator Functions		
Day-17	Day-33	Forms & Events	1) What is forms and validations?		
	Day-34	Forms & Events	- What is event Bubling And Capturing?		
Day-18	Day-35	Forms & Events	- Types of form validations - field validations - form validation		
	Day-36	Error Handling	1) What are the types of errors in JS?		
Day-19	Day-37	OOJS	1) Object oriented Principles		
	Day-38	OOJS	Getter and Setter		
Day-20	Day-39	OOJS	Closures		
	Day-40	ES6 Concepts	Strict Mode		
Day-21	Day-41	JSON	Call Backs, Async Await and Promises		
	Day-42	Asynchronous	JSON Structure		
Day-22	Day-43	HTML 5 Features	2. HTML5 Canvas		
	Day-44	HTML 5 Features	1. Web Storage – Local vs Session		
Presentation Session-2 / Practical Case Study Analysis by students					
GIT					
Day-23	DAY-45	GIT	Fast introduction to GIT commands,Simple Rebase Example,Setup for rebasing		
Project 3 - Group Project using HTML ,CSS ,BOOTSTRAP,JAVASCRIPT					
Core Java- Back End					
Day-23	DAY-46	Java Introduction	· Introduction To Java		
Day-24	DAY-47	JVM, Class & Objects	· JVM		
	DAY-48	OOPS	· Object Oriented Programming Concepts		
Day-25	DAY-49	OOPS	Polymorphism		
	DAY-50	Java Coding standards	Package – Creating package, naming package		
Day-26	DAY-51	Java Coding standards Contd.	· Access Specifiers – Public, Private, Protected, Default		
	DAY-52	Control Statement	· Control Statement – If, If...else, Nested if...else and SwitchCase		
Day-27	DAY-53	Exception Handling	· Method Overloading, Method Overriding		
	DAY-54	Exception Handling Contd.	· Serialization		

Day-28	DAY-55	String Concept	· String Concept		
	DAY-56	Collection Framework	– Custom Immutable Class		
Day-29	DAY-57	Set & Map	Set(Hash Set,Tree Set)		
	DAY-58	Comparator	"--- Comparator Interface		
Day-30	DAY-59	Java Enum	"- Java Enum		
	DAY-60		"-- Create Folder		
Day-31	DAY-61	Thread	Thread		
	DAY-62	Thread Contd.	4. Thread Priorities		
Day-32	DAY-63	Thread Synchronization	Thread Synchronization		
Presentation Session-3 / Practical Case Study Analysis by students					
Day-32	DAY-64	JDK	JDK 1.8.0 New Features with Hands-on		
Day-33	DAY-65	JDK Contd.	3. Default Method in Interface		
	DAY-66	JDK Contd.	6. Date Time API		
Day-34	DAY-67	JDK Contd.	For each Loop 10. String Joiner Class 11. Parallel Sort		
	DAY-68	JDBC	2) J2EE		
Day-35	DAY-69	JDBC Contd.	3. Database Overview		
Presentation Session-4 / Practical Case Study Analysis by students					
	DAY-70	My SQL	8. Insert, Update, Delete		
Day-36	DAY-71	My SQL Contd.	10.1 Inner Join		
	DAY-72	My SQL Contd.	10.4 Full Outer Join 11. Aggregate Function 1. MIN 2. MAX 3. AVG, 4. SUM, 6. COUNT		
Day-37	DAY-73	My SQL Contd.	SQL HAVING Clause		
	DAY-74	My SQL Contd.	17. SQL In		
Day-38	DAY-75	My SQL Contd.	22. SQL Stored Procedures		
	DAY-76	My SQL Contd.	25. DriverManager		
Day-39	DAY-77	My SQL Contd.	31. DB Connectivity Steps		
Presentation Session-5 / Practical Case Study Analysis by students					
	DAY-78	JDBC	35. JDBC CRUD Application		
Day-40	DAY-79	Servlet	2.2 Servlet		
	DAY-80	Servlet Contd.	2. Service()		
Day-41	DAY-81	Servlet Contd.	2.2.6 Servlet Directives- include(), forward(), sendRedirect()		
	DAY-82	Servlet Contd.	2.2.9 Servlet, HTML 5, MySQL, Tomcat using Real Time Login Application		
Day-42	DAY-83	JSP	2.3 JSP		
	DAY-84		2.3.5 Servlet, JSP, MySQL, Tomcat Login Application		
Day-43	DAY-85		2.3.6 Servlet, JSP, MySQL, Tomcat CRUD Application		
Presentation Session-6 / Practical Case Study Analysis by students					
Project 4 - Group Project using Frontend(HTML,CSS,JS,Bootstrap) and Backend(Core Java, Advanced Java, JDBC,SERVERLETS and MYSQL)					
Day-43	DAY-86	Hibernate	3. FRAMEWORK 3.1. Hibernate 1. Hibernate Introduction 2. Hibernate Basics		
	DAY-87	Hibernate Contd.	4. Hibernate Session		
Day-44	DAY-88	Hibernate Contd.	9. Hibernate with Annotation		
	DAY-89	Hibernate Contd.	12. Hibernate Association Mapping		
Day-45	DAY-90	Hibernate Contd.	13. Hibernate Aggregation		
	DAY-91	Hibernate Contd.	17. Hibernate HQL- Criteria Query Language		
Day-46	DAY-92	Hibernate Contd.	18. Hibernate Application with Mysql DB-CRUD		
	DAY-93	Hibernate Contd.	22. Hibernate Application with Mysql DB, JSP-User Interface-CRUD		
Day-47	DAY-94	Spring Framework	3.2. Spring Framework		
	DAY-95	Spring Framework Contd.	5.1 Singleton		
Day-48	DAY-96	Spring MVC	7. Spring Annotations		
	DAY-97	Spring MVC Contd.	6. Maven basics		
Day-49	DAY-98	Spring MVC Contd.	10. Spring, Hibernate, Mysql, Maven- CRUD Operation		
	DAY-99	Spring MVC Contd.	11. Java, Spring, Spring Security, Algorithm, Hibernate, Maven, Mysql		
Day-50	DAY-100	Spring Security	3.4. Spring Security		
	DAY-101	Spring Security Contd.	6. Spring Security Login Form		
Day-51	DAY-102	Spring Security Contd.	9. Spring Security CRUD- Signup and Login Application		
Presentation Session-7 / Practical Case Study Analysis by students					
Day-52	DAY-103	Spring Boot	3.5. Spring Boot		
	DAY-104	Spring Boot Contd.	5. Main Goal of Spring Boot		
Day-53	DAY-105	Spring Boot Contd.	9. Spring Boot Actuator		
	DAY-106	Spring Boot Contd.	16. Deploy Spring Boot Applications on External Tomcat Server		
Day-54	DAY-107	Spring Boot Contd.	20. Spring Boot, Hibernate CRUD Application		
	DAY-108	Spring Boot Contd.	22. Spring Boot, Spring- JdbcTemplate CRUD		

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S.	Topic Name	Presentation Topics
1	HTML, CSS, Bootstrap	HTML Semantic and non Semantic Tags
		HTML 5 New Features and Tags
		HTML 5 Forms
		HTML CSS Animations
		HTML CSS Layout & Design
		Flexbox, Grid & Media Queries
		Bootstrap Layout & Design
		Bootstrap Attributes and Properties
		CSS Alternatives
		HTML CSS Bootstrap Design Principles
		Bootstrap Alternatives
		CDN
2	JavaScript	JavaScript Basics
		DOM Manipulations
		Forms & Validations
		Functions in JS
		OOPS in JavaScript
		Closures
		Asynchronous JS
		Regex in JS
		Objects and Arrays (DS) in JS
		ES6 JS Features
		JS Debugging
		JSON & XML
		Storage & Service Workers
		JavaScript Web API
3	Core Java	Java Basics
		Java Class, Constructor & Object
		Abstract and Encapsulation in Java
		Inheritance in Java
		Exceptional Handling in Java
		Polymorphism
		Collections
		Data Structures in Java
		Multi Threading
		Strings in Java
		File System in Java
4	JDK, JDBC	JDBC Connections
		Java 1.8 Features
		Lambda Expressions
		JDBC Architecture
		String Joiner Class
		Data Base Overview
		Select Query
		Operators, DML, DDL & TCL
		DB CRUD Operations
		DB Setup and Config

5	Database	DB Normalisation
		PLSQL
		MySql
		MongoDB
		Postgress
		RestAPI DB Connection
		Joins in DB
		Do's and Don't's in DB
6	JSP and Servlet	Servlet Lifecycle
		Methods in Servlet
		Cookies
		Session Tracking
		Servlet config, context and Dispatch
		Filters
		JSP Servlet Config
		JSP Actions
		JSP Examples
		JSP DB Connection
		MVC in JSP
		JSP Forms
		JSP Client Server
		Java Beans
7	Spring Core & Hibernate	Spring Inversion of Control
		Beans Lifecycle
		Setter, Method & Field Injection
		Controller and Views
		Request Params & Mapping
		Spring MVC Overview
		Spring MVC Configuration
		Multiple Controllers
		Regex in Spring
		Built in Validation Rules
		Validating number ranges
		Hibernate Overview
		Hibernate Configuration
		Hibernate JDBC
		Hibernate Annotations
		Read, Update and Delete Objects with
		Query object and JPA
		Hibernate ORM
		Select & Pagination in HQL
		Integration with Spring
		Hibernate vs JDBC
		Interface of Hibernate
		Session Factory
		Hibernate Architecture
		Spring Boot Maven

8	Spring Boot	SB Initial & setup
		SB Annotations
		SB Actuator
		SB DMS and Properties
		SB MVC & Database
		SB Rest API & Security
		Restful Webservices
		Client API and Data Exchange
		Spring JAR Files
		OOPS in Springboot
		Spring HTTP Methods
		Spring Rest Template
9	JPA, Microservices, Design Patterns	Junit
		JPA Architecture
		SOAP Webservice
		Adapter Patterns
		Design Patterns
		Microservices Framework
		Maven
		Microservices Architecture