

Date : 04/12/2020
Spring Boot 9AM
Demo-Session-2
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Demo Session#1

<https://www.youtube.com/watch?v=L7zUhVLgoBA>

Spring Boot : Distributed Applications that contains mainly two parts:
FrontEnd and BackEnd Applications.

Here BackEnd Applications are implemented using Spring Boot +
Microservices.

Bank : ICICI Bank App

- a) Netbanking
- b) Mobile Banking App
- c) 3rd Party Integrations
(GooglePay, PhonePe..etc)
- d) ATM
- e) IVR

*) BackEnd Application is implemented using Layers Design.

- a) DAL : Data Access Layer : To Perform DB operations
- b) SL : Service Layer : To Perform Calculations, Transaction, logics...etc
- c) IL : Integration Layer : (ReST calls) HTTP Request/Response support.

Data is exchanged in Global Data Format(XML/JSON).

Code: .java

Compile : .class

Build: .jar/.war/.ear [jar - Java Archive, war - web archive, ear-
enterprise archive]

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- *) Spring Boot - Embedded web Servers [No Download + No Install]
 - a. Apache Tomcat (Default)
 - b. JBoss Undertow
 - c. Eclipse Jetty

*) Netty (by Spring Boot Reactive) --- Reactive web Application

- *) Spring Boot - Embedded Database [Dev/Test Environments]
[No Download + No Install]
 - a. H2
 - b. HyperSQL

c. Derby

*) Spring Data - JPA (ORM)-SQL / NoSQL

*) Spring MQs - ActiveMQ, Kafka, RabbitMQ

*) Security - Form, JWT(JSON Web Token), OAuth (Facebook Login)

Entry 0-2+

Java + Tools

UI : HTML, CSS, JS, JQuery

Mid 2-4

Angular/**React

Oracle DB/MySQL

NoSQL (MongoDB)

Sen 4+

Design patterns

Security Algo

DevOps/**AWS

Projects(2+) - Level-II (3 months)

Projects(4+) - Level-III(4 months)

--Migration--

Core Java,

Adv Basics

Spring Boot

UI Technologies

Design patterns