

# ITrik Coding Park

## ADVANCE JAVA SYLLABUS

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### 1. JDBC

### 2. SERVLET

### 3. JSP

#### **jdbc**

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#### 1.prepare first jdbc appl.

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##### 1 Storage Areas

- >Temporary SA
- >Permanent SA

##### 2. Query Processing

- >Query Tokenization
- >Query Processing
- >Query Optimizaion
- > Query Execution

##### 3.Types of Drivers

- >type 1 Driver
- >type 2 Driver
- >type 3 Driver
- >type 4 Driver
- > type 5 Driver

##### 4. Steps to perpare jdbc appl

- > load and register the Driver
- > Establish the connection java appl
- >prepare either Statement or prepared Statement of Callable Statement Obj.
- >write and execute Sql query
- >Close the connection

##### 5.ResultSet Type

- >1.Read only ResultSet
- >2 Updatable ResultSet
- >3 Forward only ResultSet
- >4 Scrollable ResultSet
- >Scroll Sensitive RS

->Scroll Insensitive Rs

##### 6. Prepared Statement

- >PreparedStatement with insert sql query
- >PreparedStatement with update sql query
- >PreparedStatement with delete sql query
- >PreparedStatement with select sql query
- >PreparedStatement with Dates sql query
- >PreparedStatement with Batch updations sql query

##### 7. Callable statement

- >callabeStatement with Procedure
- > callabeStatement with Functions
- >callabeStatement with CURSOR type Procedure
- >callabeStatement with CURSOR type Function

##### 8. Transaction Management

- >Atomicity
- >Consistency
- >Isolation
- >Durability (ACID)

##### 9. Batch Updations

##### 10. Savepoint

##### 11. Connection Pooling

##### 12. BLOB and CLOB

##### 13. RowSet

#### **SERVLET**

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##### 1.Introduction

- >Standalone appl
  - >CUI appl
  - >GUI appl
- > Enterprise App
  - >Web appln.
  - >Dirstibuted Appln.
- > Client-server arch.
  - >client
  - >server
  - >Protocal

##### 2. how to prepare servlet appln

### 3. servlet Design

- >Servlet Interface
- >Http Servlet
- >Generic Servlet

### 4. Servlet Life cycle

### 5. User Interface

- >static form generation
- >Dynamic form generation

### 6. servlet config

### 7. servlet Context

### 8 Servlet Communication

- >Browser-servlet
  - a>SendRedirect Mech..
- >web-component
  - a>include mech
  - b>forward mech
- >applet-servlet

### 9. Session Tracking Mechanisms

- >HttpSession TM
- >Cookies Session TM
- >URL-Rewriting STM
- >Hidden Form Fields STM

### 10. servlet Filters

### 11. Servlet Wrappers

- >ServletRequest Wrapper
- >HttpServletRequest Wrap..
- >ServletResponse Wrap.
- >HttpServletResponse Wrap.

### 12. Servlet Listeners

- >Request Listener
- >Context Listener
- >Session Listener

### 13 . Web Security

- >programmatic approach
- > Declarative approach

### 2 jsp Life cycle

### 3 jsp Directive

- >page directive
- >tablib directive
- >include directive

### 4 jsp Action

### 5 jsp Scripting Elemnts.

- >Declarations
- >Experssions
- >Scriptets

### 6 jsp implicit object

Out  
Request  
REsponse  
Config  
Appliction  
Session  
Page  
Exception  
Page Context

### 7.jsp scop

- >page scope
- > application scope
- >Request Scope
- >session scope

### 8 . jsp Standard Action

### 9 . jsp custome action

### 10 . JSTL

core tags  
sql tags  
xml tags  
functions tags  
Internationalization (I18N)

### 11.Expression Language

- > EL operators
- > EL Functions
- > EL Implicit Object

## DATABASE

### 1 MySql DB

### 2 Oracle DB

### 3 Mango DB

## JSP

### introduction

### 1 jsp Deployment

## SERVERS

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- 1.tomcat
2. weblogic
3. JBOSS

## IDE's

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- 1.Notepad
- 2.Notepad++
- 3.Editplus

- 4 Eclipse
- 5 myEclipse
- 6 NetBeans
- 7 STS
- 8 Atom

Maven Tool(CLI)

Git (CLI)