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TRAINING | PLACEMENT

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AHEAD
WITH FITA**

ABOUT FITA ACADEMY

FITA is a leading Skill development and Placement company managed by IT veterans with more than two decades of experience in leading MNC companies. We are known for our practical approach towards trainings that enable students to gain real-time exposure on competitive technologies & Foreign Languages.

Transforming Students & IT Professionals into Industry-Ready Workforce since 2012!



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TECHNOLOGIES



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Volanté
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eipi

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THE OUTSPOKEN DAILY

preludesys
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OUR STUDENTS WORKS AT:

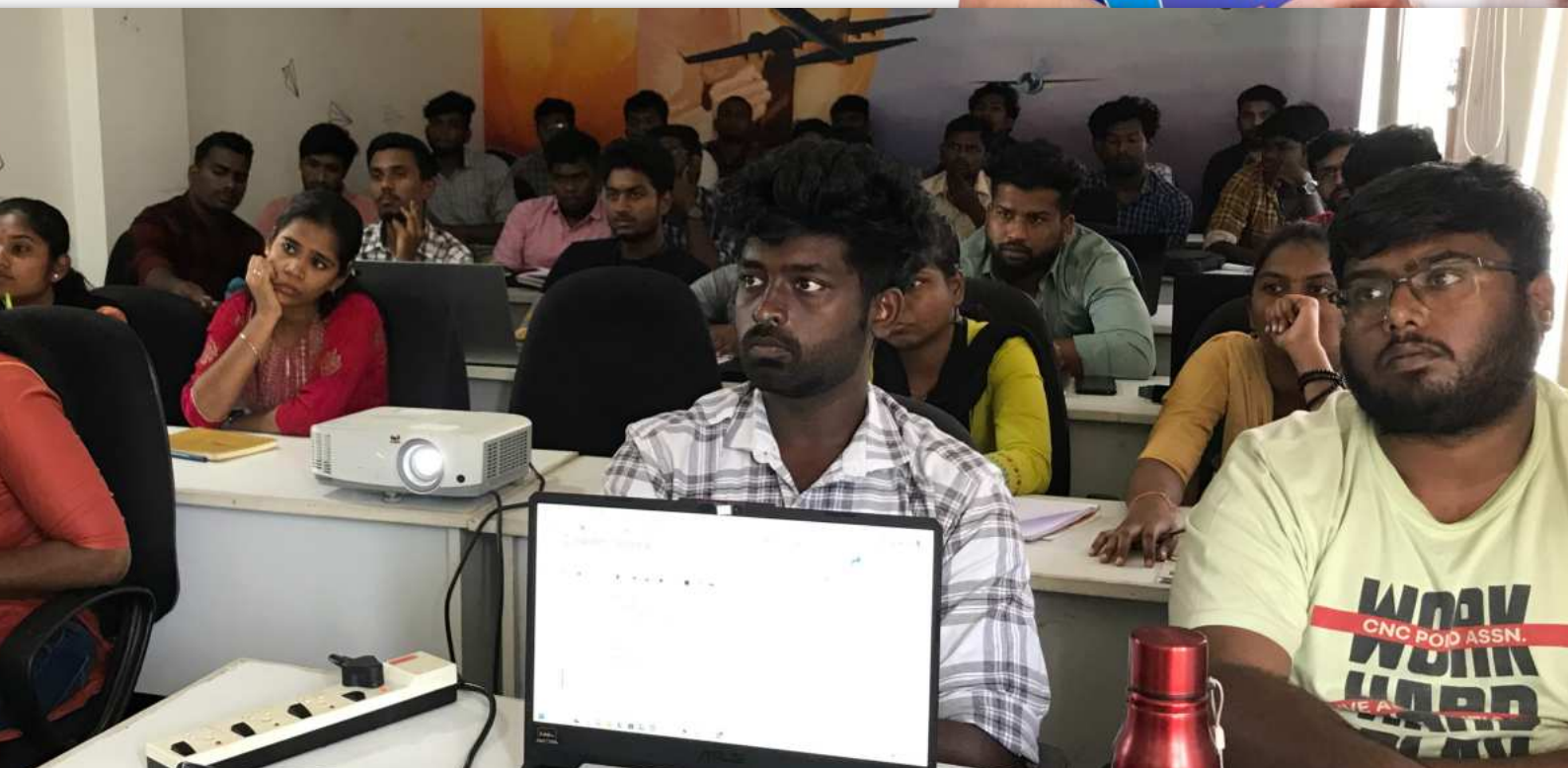


Why Learn Java at FITA Academy:

-  Live Capstone Projects
-  Real time Industry Experts as Trainers
-  Placement Support till you get your Dream Job offer!
-  Free Interview Clearing Workshops
-  Free Resume Preparation & Aptitude Workshops



Students at Placement Workshop:



Advanced JAVA

Core JAVA

Introduction to Java

- Object Oriented Programming Fundamentals
- Structure of a Java Program

Data Types

- Primitive data types
- Reference Data Types
- Keywords, Identifiers, Expressions

Operators

- Arithmetic Operators
- Assignment Operators
- Logical Operators
- Relational Operators
- Bitwise Operators

Variables

- Declaration, Definition, Types

Methods

- Syntax, Types

Object

- Object Creation, Reference, Reference Variables

Constructors

- Pass by Value and Pass by Reference
- Access Specifiers
- Access Levels
- Decision Making and Control Structures

Strings

- String, String Buffer, String Builder

Java Beans

Arrays

- Declaring and defining arrays
- Primitive Arrays
- Object Arrays

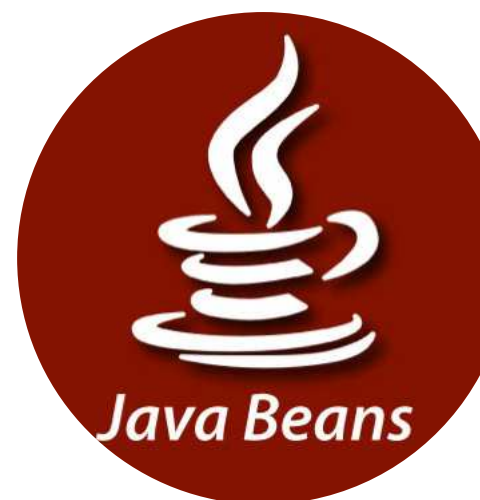
Inheritance

- Is-A Relationship
- Has-A Relationship
- Inheritance using extends keyword
- Inheritance using implements Keyword

Abstraction

- Abstraction using abstract classes
- Abstraction using interfaces

Encapsulation



Interfaces

- Interfaces Vs Classes
- Nested Interfaces
- Interface as a type

Polymorphism

- Overloading
- Constructor overloading
- Overloading between classes
- Overriding

Exception Handling

- Exception
- Categories of Exception, Exception hierarchy
- Throw and throws keywords
- Try catch and finally keywords

Collection Framework

- Core Interfaces
- Core Classes
- Iterator
- Comparable & Comparator

Generics

- Auto boxing
- Unboxing



Casting

- Primitive Casting
- Reference Casting
- Up casting and down casting

File Handling

- File Handling in Java
- Files, Streams, Types of Streams

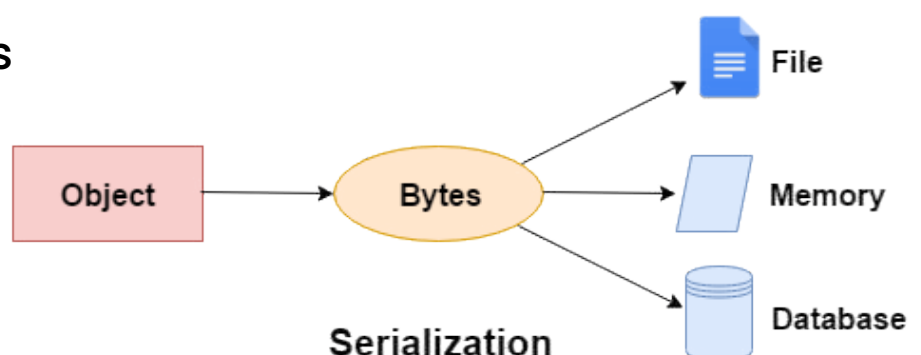
Serialization

Threads

- Thread Life Cycle
- Thread States
- Creating Threads
- Threads Priorities
- Thread Groups
- Synchronization

Inner Classes

- Nested Classes
- Anonymous Classes



Java Enterprise Edition (JEE)

Overview of J2EE and WWW

The HTTP Protocol and Web Application Introduction

Environment Setup

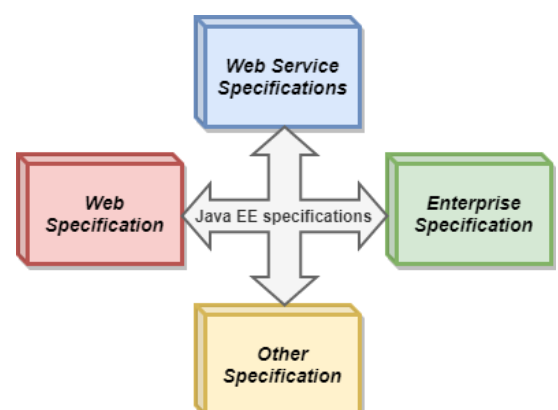
HTML

Servlets

- What is a Servlet?
- Servlet Lifecycle, Configuring a Servlet, Types of Servlet
- Servlet Context
- Servlet Config
- Deployment descriptor
- Session Management

Java Server Pages (JSP)

- JSP Lifecycle
- Servlets vs JSP
- Scriptlets
- Directives
- Declaration
- Sessions

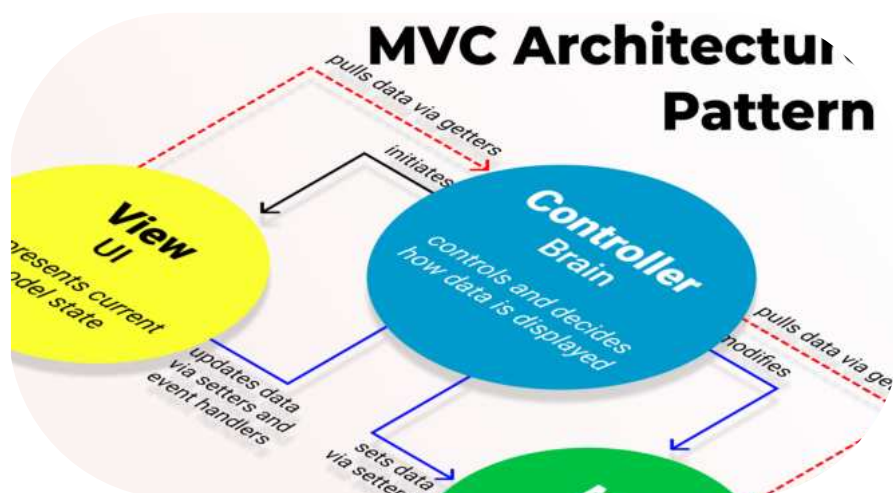


- Mixing Scriptlets and HTML
- Tag Libraries
- Beans and Forms Processing

MVC Architecture

JDBC

- Database Setup (MySQL)
- Overview
- JDBC Driver Types
- How JDBC Works
- Steps Involved
- JDBC Process details
- Queries
- Prepared Statements
- Callable Statements



Capstone Project

Online Bookstore Management System

Description:

The Online Bookstore Management System is a comprehensive web-based application that will be developed using core Java, JSP (JavaServer Pages), Servlets, and JDBC (Java Database Connectivity) concepts. This project aims to streamline the operations of a bookstore by providing an efficient platform for managing book inventory, processing customer orders, and maintaining a user-friendly interface.

Key Modules that will be Built:

User Authentication and Authorization:

Secure login system for administrators, staff, and customers.
Role-based access control to ensure data security and integrity.

Book Inventory Management:

Add, edit, and delete books with details such as title, author, genre, and price.
Track real-time inventory levels and receive low-stock alerts.

Order Processing:

Enable customers to browse the catalog, add books to their shopping cart, and proceed to checkout.

Implement a secure payment gateway for order transactions.

User Profile Management:

Allow users to create accounts, view order history, and update personal information.

Implement password encryption for enhanced security.

Search and Filter Functionality:

Provide a robust search functionality with filters based on author, genre, and title.

Enhance the user experience with a responsive and intuitive interface.

Reporting and Analytics:

Generate reports on sales, popular books, and customer preferences.

Implement analytics to help administrators make informed decisions.



Responsive Design:

Ensure a seamless experience across devices with a responsive and mobile-friendly design.

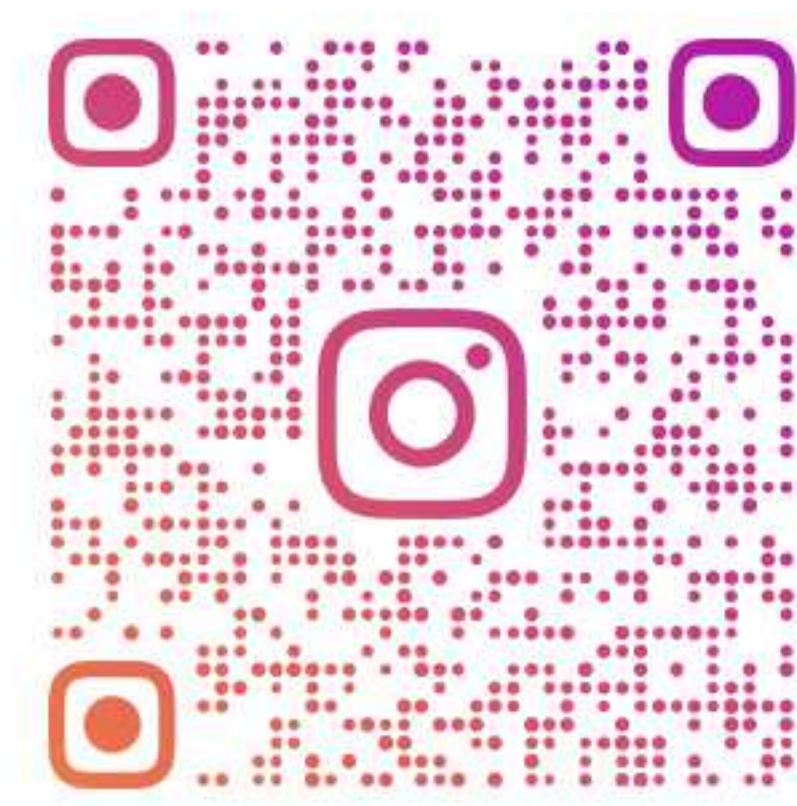
Database Connectivity:

Utilize JDBC to establish a connection to a relational database for storing and retrieving data efficiently.

This Online Bookstore Management System leverages core Java technologies to create a scalable and maintainable solution for bookstores, enhancing their overall efficiency and customer satisfaction



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