



Enterprise Java with Spring Boot

Description:

Java is one of the most widely used programming languages, owing to its versatility and compatibility. Java can be used for various purposes, including software development, mobile application development, and large-scale system development. This Java course will teach you all you need to know to get started with Java.

Start Date: 9th July 2022

Doubt Clear Time: Wednesday: 2:00 pm to 4:00 pm (IST) & Saturday

Course Time: 09:00 AM to 12:00 PM (IST) Saturday - Sunday

Features:

- # Early Launch Offer
- # 6 months programme
- # On demand recorded videos
- # Practical exercises

Quizzes

Assignments

Course completion certificate

Course resources

What we learn:

Java Basics

Loops

OOP

Java Projects

Exception Handling

Blockchain Project

MultiThreading

Collection Framework

Junit

MySQL

NoSQL

JDBC

Hibernate

Requirements:

System with Internet Connection

Interest to learn

Dedication

Instructor:

Name:

Hyder Abbas

Description:

Corporate Software Development Trainer with a demonstrated track record of success in the IT and Ed-tech industries. I started my career as a software developer and have since taught Java, Python, Javascript to hundreds of IT enthusiasts, including corporate professionals, throughout the years. I have been developing software for over 6 years.

Name:

Navin Reddy

Description:

I am Corporate Java trainer. Since past few years successfully trained many professionals at JP Morgan, Accenture, Polaris and L&T infotech. My youtube channel "Telusko" presently has 1.7 million subscribers. Passionate about Java Technology for over a decade and moved on as a corporate trainer. I am certified blockchain developer and Currently, building Applications running on Blockchain (dapps).

Name:

Nitin M

Description:

I began working for a multinational corporation as a developer, but teaching has always been my passion. I shifted to education technology and have five years of expertise

instructing both college freshmen and Corporate Employees. My interests include Java, JEE, and frameworks, and I have developed numerous applications using SpringBoot and microservices. Last but not least, I want to code as well as teach and continue to teach forever.

>Welcome to the Course:

>>Course Introduction

>Java Basics:

>>Introduction to Java

>>Setup

>>Getting Started

>>How Java Works

>>Variables

>>Data Types

>>Naming Conventions

>>Operators

>>Conditional Statements

>>If Else

>>Ternary

>>Switch

>Loops:

>>While

>>For

>>Nested Loops

>>Break and Continue

>OOP:

>>Introduction to Object Oriented Programming

>>Class and Object

>>Constructor

>>This Keyword

>>Method and Constructor Overloading

>>Static Keyword

>>Inner Class

>>Arrays

>>Enhanced for loop

>>Varargs

>>Inheritance

>>Super Method

>>Multiple Inheritance

>>Method Overriding

>>Super Keyword

>>Multiple Inheritance

>>Encapsulation

>>Wrapper class | Autoboxing

>>Abstract Keyword

>>Final Keyword

>>Interface

>>Anonymous Inner class

>>Functional Interface

>>Lambda Expression

>>Package

>>Access Modifier

>Java Projects:

>>Number Guessing Game

>>Java Object to JSON Convertor

>Exception Handling:

>>Exceptions

>>Try Catch

>>Finally

>>Multiple Catch Blocks

>>Checked Exceptions

>>User Defined Exception

>Blockchain Project:

>>Building Blockchain using Java

>MultiThreading:

>>Introduction

>>Thread Class

>>Runnable

>>Lambda Expression

>>Thread Priority

>>Synchronized

>Project:

>>Chatting Application

>Collection Framework:

>>Introduction

>>Iterator and List Interface

>>Set

>>Map

>>Comparator, Comparable

>>Generics

>Projects:

>>Online Voting System

>>Work Scheduler

>Junit:

>>Introduction

>>Unit Testing

>>Test Exceptions

>>Multiple Assertions

>>Annotations

>JUnit Project:

>>Test Cases for Online Voting System

>MySQL:

>>Introduction to SQL

>>Setup

>>What is Database

>>Creating, Dropping Databases

>>Introduction to Tables

>>Creating, Dropping, Altering the Tables

>>CRUD

>>Select, Insert, Update, delete Queries

>>Where, groupby, having

>>Aggregate Functions

>>One to many, many to one, many to many relationships

>Sql with Java Projects:

>>Indexing for Blockchain Project

>>Online Course Management

>NoSQL:

>>Introduction to NoSQL

>>Categories

>>NoSQL vs RDBMS

>>Couch DB

>>Mongo DB

>>Cassandra

>>Redis

>NoSql with Java Projects:

>>IPL Stats

>JDBC:

>>Introduction

>>CRUD Operations

>>ResultSet

>>Connection Pooling

>JDBC Project:

>>Book My Calendar

>Hibernate:

>>Introduction to Hibernate

>>Setup

>>Configuration File

>>SQL Property

>>Annotation

>>CRUD

>>Embeddable Object

>>Mapping Relations

>>EAGER LAZY

>>Caching

>>HQL

>>Object States Persistence Life Cycle

>>Get vs Load

>>JPA

>Hibernate Project:

>>Hall of Fame

>Servlets and JSP:

>>Introduction

>>Setup

>>Creating First project

>>Creating Servlet and XML

>>Get vs Post

- >>RequestDispatcher
- >>HttpServletRequest and HttpServletResponse
- >>RequestDispatcher and sendRedirect
- >>HttpSession and Cookie
- >>ServletConfig and ServletContext
- >>Servlet Annotation Configuration
- >>JSP
- >>JSP to Servlet
- >>Tags, Scriptlet, Declaration, Directive, Expression
- >>Implicit Objects
- >>Exception handling in JSP
- >>JDBC in JSP
- >>Servlet Filters

>JSP Project:

- >>Stock Broker

>Spring:

- >>Introduction
- >>Dependency Injection
- >>BeanFactory
- >>ApplicationContext
- >>Spring Container
- >>Singleton vs Prototype

>>Setter Injection

>>Ref Attribute

>>Constructor Injection

>>Autowire

>>Primary Bean

>Spring Boot:

>>Introduction

>Spring MVC:

>>Introduction

>>Creating Controller

>>Accepting User Input

>>@RequestParam

>>@ModelAttribute

>>Prefix and Suffix

>>Model and ModelMap

>>ModelAttribute

>>GetMapping and PostMapping

>Spring Project:

>>Quiz Application

>Spring ORM:

>>Introduction

>>Spring Hibernate Config

>>MySQL and DAO

>>DAO Creation

>>Add and Fetch

>Spring Data JPA:

>>Spring Data JPA Configuration

>>JpaRepository

>>JpaRepository Add and Fetch

>>Query DSL

>>Query Annotation

>Spring REST:

>>Introduction

>>REST GetMapping

>>Jackson

>>PathVariable

>>RestController

>>PostMapping

>>Jackson XML

>>Produces Attribute

>>RequestBody and Consumes Attribute

>Spring AOP:

>>Why AOP

>>AOP Terms

>>Aspect and Before Annotation

>>Logger

>>After Finally

>>AfterReturning and Throwing

>Spring Security:

>>Introduction

>>Implementation

>>Managing Users

>>Passwords

>>Authentication

>>Authorization

>>CSRF and CORS

>>OAuth2

>>JWT

>Spring Mega Project:

>>Secure Stock Broker App

>Agile and Scrum (Optional):

>>Agile Values

- >>12 Agile Principles
- >>Scrum Overview
- >>Scrum Values
- >>Concept of Sprints
- >>Scrum Roles
- >>Role of Scrum Master
- >>Role of Product Owner
- >>Role of Development Team
- >>Daily Stand-up
- >>Sprint Planning
- >>Sprint Review
- >>Sprint Retrospective
- >>Backlog Refinement
- >>User Stories
- >>Product Backlog and Sprint Backlog
- >>Working Agreements
- >>Definition of Ready, Done
- >>Team Velocity
- >>Burndown Chart

>>Docker Installation Basics:

- >>What is Docker?
- >>How to install Docker and Hello World
- >>What is container in Docker

>>Docker vs Virtual Machine

>>First interaction with busy box image

>Fundamentals of docker:

>>Docker lifecycle and PS

>>Start and delete a container

>>Getting a mongodb container for fun

>>Exploring exec command

>>Multiple ways to get inside a container

>Custom Docker images:

>>Analogy for custom docker image

>>Our first base image and custom image

>>Behind the scene for custom image

>>Creating a custom mongodb image

>>Concept of caching in docker

>>Provide a custom name for your image

>Project and Docker:

>>Introduction to node project for docker

>>Introduction to node project for docker part 2

>>Containerize a node application

>>Performance upgrade in node project container

>Multi container setup:

- >>Introduction to multi docker container
- >>A mini mongo connector project
- >>Put your node code in a container
- >>Introduction to docker compose
- >>Connect 2 compose images in docker
- >>Access the compose container app with browser

>Ngnix - production grade deployment:

- >>Ngnix A production grade docker
- >>Attaching volumes in Docker
- >>Types of docker files
- >>Dev test and production stages
- >>Understand react project for docker deployment
- >>Docker for development
- >>Docker for testing
- >>Docker for production

>Docker AWS and Travis CI:

- >>Docker CI and AWS
- >>What is CI-CD Jenkins vs Travis CI
- >>Moving to AWS Elastic Beanstalk
- >>Moving project to GitHub repo

>>Reading Travis CI documentation

>>Writing our 1st Travis CI config file

>>AWS IAM user generation

>>Elastic Beanstalk and S3 bucket

>>Finally hosting app on AWS with CI integrated with docker

>>TURN OFF those AWS apps

>Microservices:

>>Introduction to Microservices

>>Microservice Architecture

>>Spring Cloud