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Course Content

MODULE 1-CORE JAVA:

INTRODUCTION TO JAVA:

- Comparing java with other programming languages
- Overview of frontend, backend, database
- Java features
- Java software installation
- Java Architecture
- Variables
- Datatypes
- Operators
- Conditional statements
- Looping statements
- Arrays & types of Arrays
- Command line arguments
- Type casting & types of type casting
- Object oriented programming concepts
- Abstraction
- Encapsulation
- Inheritance & types of inheritance
- Polymorphism (method overloading/method overriding)
- Constructors & types of constructors
- Super keyword
- String, String Buffer object methods
- Access Modifiers (private, default, protected, public)
- Packages & types of packages
- Non access modifiers (static, final, abstract)
- Interfaces
- Exception handling
- Multi-threading programming
- Collections
- IO streams
- Java 8 features
- Eclipse IDE
- Core java interview questions &
- Cor java programs
- Core java Exam
- Mock interview

Module 2-SQL:

SQL introduction

- MYSQL database server installation
- DDL
- DML
- DQL
- TCL
- Constrains & types of constrains
- SQL Operators & types
- Joins & types
- Views
- Limit
- Index
- Order by clause
- Where clause
- Group by clause
- Having clause
- Like
- Commit
- rollback
- procedures
- functions
- cursors
- SQL Exam/Mock interview

Module 3-Frontend Technologies:

1. HTML:

- Introduction to Html, Internet, webpage, browsers
- Header tag
- Title tag
- Body tag
- Hyper Link tag
- Image tags
- Setting background images
- Setting background colors
- Font tags
- Table tags
- Form tags
- Input tags
- Text
- Radio button
- Checkbox
- Button
- Submit
- Password
- Reset

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- Date
- File
- Email
- url
- telephone
- number
- textarea
- drop down boxes
- select tags
- option tags
- Attributes
- IFrames
- List & types of list tags
- Symbol entities
- QR code generation
- HTML Layouts
- Responsive webpages
- Video
- Audio
- HTML Exam/Mock interview

2. CASCADING STYLE SHEETS(CSS):

- Introduction to CSS
- CSS syntax
- Selectors
- Properties
- Inline CSS
- Internal CSS
- External CSS
- CSS Font properties
- CSS Border properties
- CSS Padding properties
- CSS Cursor properties
- CSS Table properties
- CSS Link properties
- Styling different types of input tags
- CSS list properties
- Types of selectors
- CSS Exam/mock interview

3. JAVA SCRIPT:

- Introduction to Java script
- Java script features
- Java script advantages
- Types of java script code
- Java script variables
- Java script operators

- Java script conditional statements
- Java script looping statements
- Arrays & types of Arrays
- Java script String object methods
- Java script Date object methods
- Browser Object Model(BOM)
- Window object methods
- History object methods
- Navigator object methods
- Screen object methods
- Location object methods
- Document object Model(DOM)
- DOM object methods
- Java script form validations
- Java script Event Handling
- Java script JSON object
- Java Script Exam/mock interview

4. REACT JS:

- Introduction to React JS
- React JS features
- React Library
- Create react app tool
- Java script XML(JSX)
- React components & types
- React properties
- React conditional rendering
- React event management
- React form programming
- Hooks & types
- Use state Hook
- Use effect hook
- Use context hook
- Use ref hook
- Use reducer hook
- React with CSS integration
- React with bootstrap
- React Router
- React constructor &
- Types of initializations
- React Written Exam
- Mock interview

Module 4-Advanced Java:

1. Java Database Connectivity (JDBC):

- JDBC Introduction
- Statement

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- PreparedStatement
- CallableStatement
- ResultSet
- ScrollableResultSet
- Batch Updates
- Transaction
- Types of Drivers

2. Servlets:

- Server-side programming Introduction
- client-side programming introduction
- Web application & Websites
- Server-side technologies
- Web container & types of containers
- Servlets advantages
- Apache Tomcat server installation
- Servlet Life cycle
- HttpServlet
- HttpServletRequest
- HttpServletResponse
- PrintWriter
- doGet()
- doPost()
- Servlet Annotations
- Servlets with database integration web application
- Servlets Written Exam
- Mock interview

3. Java Server Pages (JSP):

- Introduction to JSP
- Differences between Servlets and JSP
- JSP advantages
- JSP life cycle
- JSP Architecture
- Scripting elements
- Declarations
- Scriptlets
- Expressions
- actions
- Java Bean
- jsp:useBean
- jsp:setProperty
- jsp:getProperty
- JSP with Database integration web application
- JSP Written Exam
- Mock interview

Module 5-Frameworks:

1. Hibernate Framework:

- Hibernate introduction
- Hibernate installation
- Differences between JDBC and Hibernate
- Object Relation Mapping (ORM)
- Hibernate features
- Hibernate configuration
- Hibernate mapping
- Persistence
- Persistence object life cycle
- Configuration class
- Session Factory
- Session
- Transaction
- Hibernate properties
- Hibernate Annotations
- Primary key generation algorithms
- Hbm2ddl property
- Hibernate connection pool
- Hibernate Query language (HQL)
- Hibernate Criteria query language (HCQL)
- Restrictions
- Inheritance mapping
- Table per hierarchy
- Table per concrete
- Table per subclass
- Hibernate Associations Mapping
- One –One
- One-many
- Many-One
- Many-many
- Hibernate Exam/Mock interview

2. Spring Framework:

- Introduction to Spring Framework
- Spring Features
- Spring Installation
- Spring Core module
- Spring configuration
- ClassPathXmlApplicationContext
- ApplicationContext
- Dependency Injection
- Spring Bean scope
- Setter Injection

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- Constructor Injection
- Inner Beans
- Collections injection
- Autowiring
- Spring DAO module
- JdbcTemplate
- Spring ORM module
- LocalSessionFactoryBean
- DriverManagerDataSource
- Spring MVC module
- MVC design pattern
- DispatcherServlet
- Controller
- ModelAndView
- Spring AOP module
- AspectJ implementation
- Types of Advices
- Annotations
- Spring Written Exam
- Mock interview
- 3. Spring Boot Framework:**
 - Introduction to Spring Boot
 - Differences between Spring and Spring Boot frameworks
 - Advantages of Spring boot
 - Spring Boot features
 - Spring Boot autoconfiguration
 - Spring boot installation
 - Spring Tool Suit installation
 - ConfigurableApplicationContext
 - SpringBootApplication Annotation
 - Component Annotation
 - Spring boot starters
 - Dependencies
 - Spring-boot-devtools dependency
 - Autowired Annotation
 - SpringBootServletInitializer
 - SpringApplicationBuilder
 - ModelMap
 - Controller Annotation
 - RequestMapping Annotation
 - tomcat-jasper dependency
 - ComponentScan annotation
 - RequestParam annotation
 - Spring boot security
 - Spring Data JPA(Java Persistence API)
- JpaRepository
- ModelAndView
- Spring Boot Thymeleaf
- Spring Boot Actuators
- Endpoints
- Web service & types
- Rest API
- Rest API Architecture
- Http methods & types
- Postman
- Rest Endpoints
- JSON object
- RestController Annotation
- PostMapping Annotation
- GetMapping Annotation
- DeleteMapping Annotation
- PutMapping Annotation
- RequestBody Annotation
- PathVariable Annotation
- Service Annotation
- Repository Annotation
- Spring boot Written Exam
- Mock interview
- 4. Microservices**
 - Differences between Monolithic and Microservices approaches
 - Advantages of Microservices
 - Microservices Architecture
 - Types of Microservices
 - Eureka server
 - API gateway
 - EnableDiscoveryClient annotation
 - EnableFeignClients annotation
 - FeignClient annotation
 - spring-cloud-starter-gateway-mvc dependency
 - spring-cloud-starter-netflix-eureka-client dependency
 - spring-cloud-starter-openfeign dependency
- 5. SPRING ARTIFICIAL INTELLIGENCE(AI):**
 - Spring AI introduction
 - Prompts
 - Responses
 - LLM models

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- Spring AI Architecture
- ChatClient
- ChatResponse
- Open AI key
- Openai dependency
- GIT/GITHUB:
- Git introduction and installation
- GitHub registration
- Git configuration
- Git repository
- Initializing Git
- Git staging
- Git commit
- Github repository
- Git push
- Git pull

Module 6: AWS Cloud server:

- Cloud computing introduction
- Features of Cloud computing
- Advantages of Cloud Computing
- AWS registration
- AWS services
- S3 service
- Web application on AWS cloud server
- AWS application endpoint

Courses We Offer







Testing Programs

-  **Testing Tools**
Functional Test Engineer
-  **Manual Testing**
Manual Test Engineer
-  **Selenium Testing**
Automation Test Engineer
-  **TOSCA**
TOSCA Test Engineer
-  **API&ETL Testing**
API Test Engineer
-  **Performance Testing**
LoadRunner & JMeter

Developing Programs

-  **Full Stack Java**
Full Stack Java
-  **Core Java**
Core Java
-  **Adv Java & Frameworks**
Adv Java & Frameworks
-  **Full Stack Python**
Full Stack Python
-  **Python Programming**
Python Programming
-  **DJANGO & Frameworks**
DJANGO & Frameworks

Advanced Programs

-  **DevOps**
DevOps Engineer
-  **Data science with AI**
Data science with AI
-  **Data Analytics**
Data Analytics
-  **Selenium with C#**
Selenium with C#
-  **Playwright Automation**
Playwright Automation
-  **Python with Selenium**
Python with Selenium

Training Methodology

Class room Training



Project Training



Resume Preparation



Certification



Interview Preparation



Placement Assistance















































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