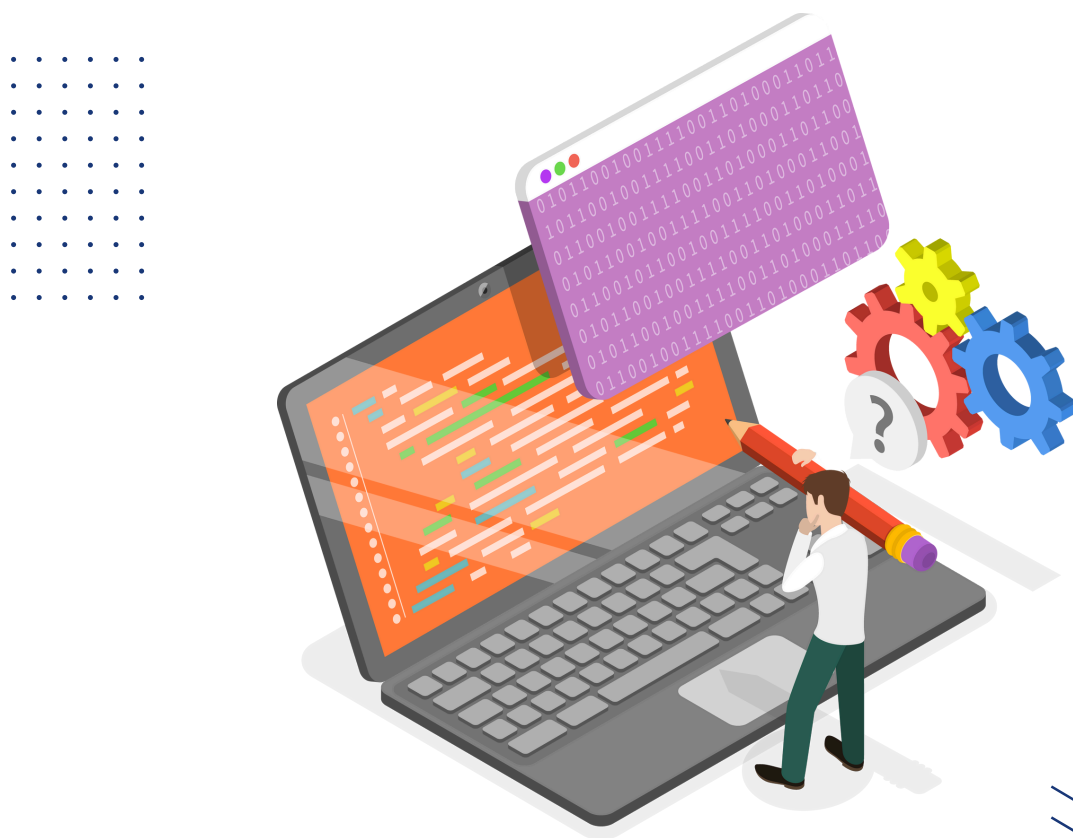


Certificate in Advanced Java Programming and Web Development using Java



Are you fascinated about Java programming? We're here to assist you, The Certificate in Advanced Java Programming and Web Development using Java is a comprehensive program designed to equip learners with the skills and knowledge needed to develop robust and scalable Java applications for the web. The programme covers various aspects of string manipulation, applets, GUI development, database management, multithreading, and web development. Topics include understanding the life cycle of Java applets, differentiating between AWT and Swing controls, working with SQL statements, implementing multithreading using Runnable, comparing StringBuffer and StringBuilder, leveraging lambda expressions, handling mouse events, using I/O streams, creating databases and tables, working with web development tools, understanding JSP implicit objects and tags, integrating JDBC with servlets, and mastering HTML concepts.

Syllabus & Skills covered (60 hours)



- Fundamentals- Strings, characters, multithreading, databases, and SQL.
- Creating and working with Java applets and AWT components.
- Understanding and using Swing components for GUI development.
- JSP, HTML, sessions, cookies, JSTL, servlets, and JDBC.
- You will delve into advanced topics in Java programming, focusing on object-oriented programming principles, generics, collections, concurrency, exception handling, design patterns, performance optimization, security, and cloud computing. By mastering these concepts, you can develop more sophisticated and efficient Java applications.
- Explores the use of Java technologies for web development, including Java EE components like servlets, JSP, EJB, JPA, web services, and JMS.
- It also covers essential web development technologies such as HTML, CSS, and JavaScript, as well as popular front-end frameworks.

Career Opportunities



- **Java Developer**
- **Web Developer Trainee**
- **Java Consultant**
- **Web Services Developer**
- **Full-Stack Java Developer**

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