VIRAJE TECH

CERTIFIED JAVA

PROGRAM BROCHURE
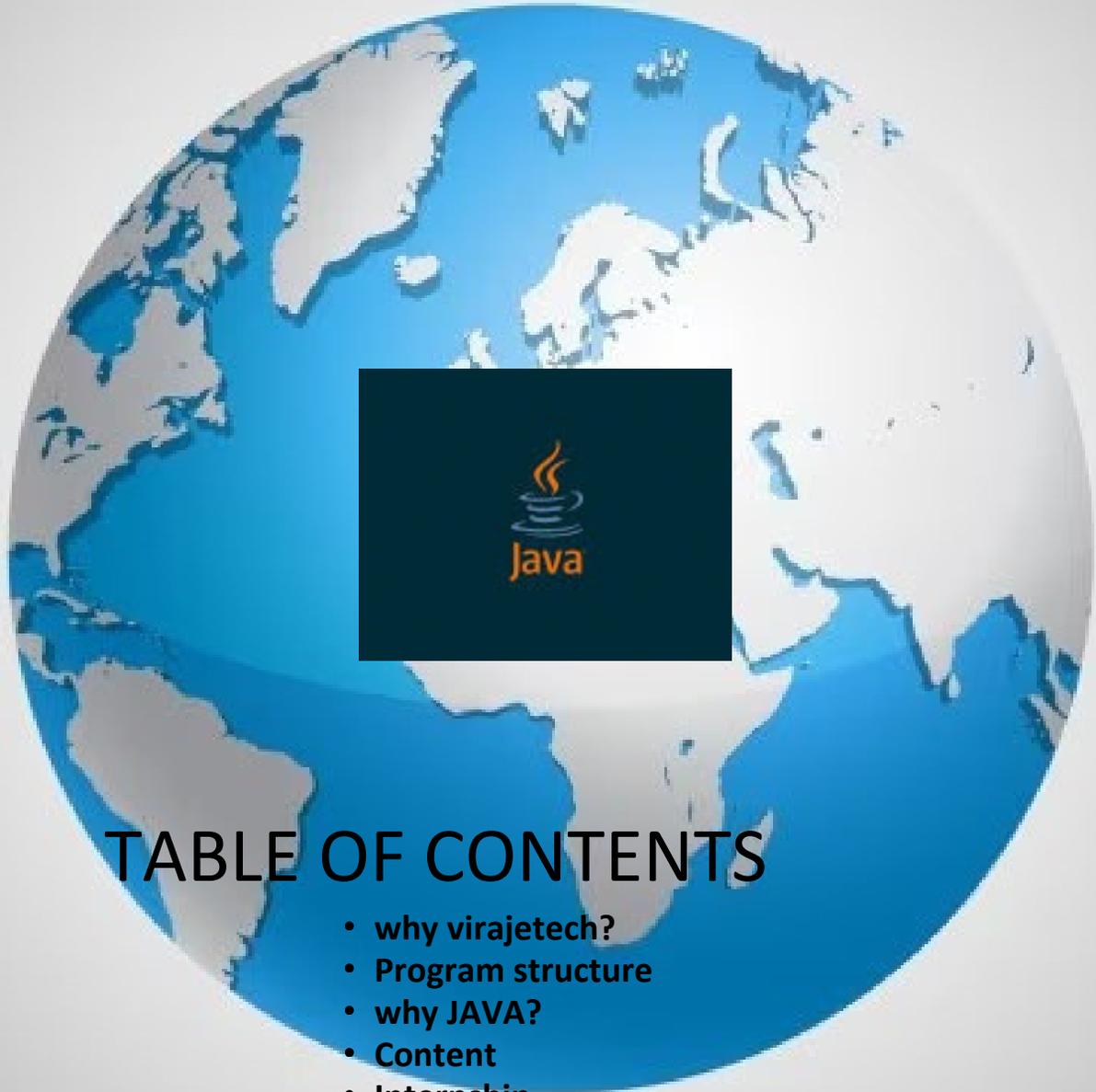
Java

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E - Learning Platform

WHY VIRAJETECH?

"OUR VISION"

To be the safest, most progressive Technology Provider, relentless in the pursuit of Client and employee excellence

VirajeTech's Placement Team boasts industry-leading success, aiding thousands in seamless transitions to JAVA careers.

EXPERT TRAINERS

10+year experianced and Elite faculty from Industry Experts Prestigious universities with deep research and coaching expertise

JOB ASSISTANCE

End to End job Support
Personalized resume and interview preparation support Job updates and connects

COMPREHENSIVE

30 hours & 700+ Learning Hrs.
Syllabus aligned with virajetech standards and rigorously updated to match with latest industry requirements

REALTIME EXPERIENCE

Projects and Internships
20 capstone projects and 1 client projects with active interaction Internship -developing POCs

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PROGRAM STRUCTURE

THE COURSE FOR BEGINNERS' PROFESSIONALS AND INTERMEDIATE LEARNERS IN THE FIELD OF

JAVA THIS IS A CAREER- ORIENTED PROGRAM, DESIGNED TO IMPART A STRONG FOUNDATION

MICROSERVICES

APACHE kafka
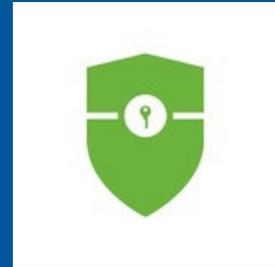
Java

- PRE COURSE SELF-STUDY
- HIGH QUALITY VIDEOS WITH
- EASY LEARNING APPROACH
- CERTIFICATIONS
- JOB READY PROGRAM

- LIVE TRAINING
- 30 HOUR A WEEK
- COMPREHENSIVE SYLLABUS
- HANDS-ON PROJECTS
- EXPERT TRAINERS AND MENTORS

Java Programming in Ajax

WHY JAVA?

A Java e-learning course is highly advantageous for the IT industry due to Java's widespread use and versatility. The course equips IT professionals with essential programming skills, as Java remains a cornerstone in developing robust and scalable applications. The online format provides flexibility, enabling learners to acquire Java proficiency at their own pace, a crucial aspect in the fast-paced IT environment. Java's cross-platform compatibility makes it indispensable for diverse IT projects, and the e-learning course ensures accessibility for a global audience, fostering a collaborative and interconnected IT community. Practical exercises within the course enhance hands-on experience, empowering IT professionals to apply Java effectively in real-world scenarios. Continuous updates in the e-learning curriculum keep learners abreast of Java's evolving features and industry best practices, making the course a valuable investment for career advancement in the IT sector.

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Java Programming in Ajax

1 Introduction to Ajax

- *Definition and Overview of Ajax*
- *Role in Modern Web Development*
- *Key Concepts: Asynchronous Requests, DOM Manipulation*
- *Evolution of Web Development*
- *Advantages in Web Applications*
- *Ajax vs. Traditional Web Applications*
- *Historical Context of Ajax*
- *Ajax Use Cases and Scenarios*
- *Impact on User Experience*
- *Ajax in Progressive Web Apps (PWAs)*

2 Core Technologies in Ajax

- *Understanding Event-Driven Programming*
- *XMLHttpRequest Object*
- *JSON (JavaScript Object Notation)*
- *HTML and CSS for Ajax*
- *DOM Traversal and Manipulation*
- *Browser Compatibility and Cross-Browser Issues*
- *Debugging Tools and Techniques for Ajax*
- *Error Handling in Ajax*
- *Cross-Origin Resource Sharing (CORS) and Security Considerations*

3   Asynchronous Communication

- *Making Asynchronous HTTP Requests with Ajax*
- *Differentiating Synchronous vs. Asynchronous*
- *Handling Responses: Callbacks, Events*
- *Dynamic Loading into Web Pages*
- *Real-time Data Updates with Ajax*
- *Handling Timeouts and Delays*
- *Concurrent Asynchronous Requests*
- *Optimizing Asynchronous Requests for Performance*
- *Polling and Long Polling Techniques*

4   DOM Manipulation with Ajax

- *Modifying HTML Elements with JavaScript*
- *Creating and Deleting DOM Elements*
- *Animation and Effects with Ajax*
- *Enhancing UI with Ajax*
- *Templating Engines for Dynamic Content*
- *Client-Side Data Storage (Cookies, Local Storage)*
- *Responsive Design Principles with Ajax*
- *Offline Web Applications with Ajax*
- *Accessibility Considerations in Ajax Applications*

5   Ajax Frameworks and Libraries

- *Popular Libraries: jQuery, Prototype, etc.*
- *Pros and Cons of Frameworks vs. Vanilla JavaScript*
- *Ajax in Modern Front-End Frameworks (Angular, React, Vue)*
- *Integrating Ajax with Backend Frameworks (Spring, Django, etc.)*
- *Customizing Ajax Frameworks for Project Needs*
- *Optimizing Framework Performance*
- *Choosing the Right Framework for the Project*
- *Ajax in Microservices Architectures*
- *Trends and Future Developments in Ajax Frameworks*

6   Handling Data Formats in Ajax

- *Parsing XML Responses*
- *JSON Data Handling in Ajax*
- *Serializing and Deserializing JSON*
- *Integrating External APIs with Ajax*
- *GraphQL in Ajax Applications*
- *Efficient Data Transfer with Binary Formats*
- *Handling Large Datasets with Ajax*
- *Custom Data Formats in Ajax*
- *Choosing the Right Data Format for the Task*

7   Ajax Security

- *CSRF Protection*
- *Content Security Policy (CSP) in Ajax*
- *Secure Coding Practices*
- *HTTPS and SSL/TLS Considerations*
- *Secure Communication with Backends*
- *Token-Based Authentication in Ajax*
- *Best Practices for Handling Sensitive Data*
- *Security Auditing and Testing for Ajax*
- *Evolving Security Threats in Ajax Applications*

8   Ajax and Java Integration

- *Implementing Ajax in Java Web Apps*
- *Ajax with Java Frameworks (Spring, Struts, etc.)*
- *WebSocket Integration with Java and Ajax*
- *Reactive Programming with Ajax and Java*
- *Asynchronous Servlets in Java*
- *Error Handling and Logging in Java Ajax Apps*
- *Optimizing Java Backend for Ajax Communication*
- *Integrating Java Microservices with Ajax*
- *Real-Time Collaboration with Ajax and Java*

9   Single Page Applications (SPA)

- *Architectural Patterns for SPAs*
- *Building SPAs with Ajax and Java*
- *State Management in SPAs*
- *Client-Side Routing and Navigation in SPAs*
- *Progressive Enhancement with Ajax in SPAs*
- *SPAs vs. Multi-Page Applications (MPAs)*
- *Optimizing Performance in SPAs*
- *Handling Authentication and Authorization in SPAs*
- *Challenges and Solutions in SPA Development*

10   Ajax Best Practices and Real-World Applications

- *Code Organization and Modularization*
- *Performance Optimization Strategies*
- *Debugging and Profiling Ajax Applications*
- *Responsive Web Design Best Practices*
- *User Experience Optimization with Ajax*
- *Code Reviews and Collaboration in Ajax Projects*
- *Continuous Integration and Deployment for Ajax*
- *Case Studies of Ajax in Real-World Applications*
- *Emerging Trends and Innovations in Ajax Development*

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11   jQuery and Asynchronous Programming

- *Callbacks and Callback Hell*
- *jQuery Deferred and Promises*
- *Chaining Asynchronous Calls*
- *Handling Parallel and Sequential Asynchronous Operations*
- *Async/Await in jQuery*
- *AJAX with Promises*
- *Efficient Data Loading Strategies*
- *Loading Data from External APIs*
- *Real-Time Data Updates with Asynchronous Calls*

12   jQuery and Cross-Browser Compatibility

- *Feature Detection vs. User-Agent Sniffing Browser-Specific*
- *CSS and JavaScript*
- *Vendor Prefixing for CSS Properties*
- *Polyfills and Shims in jQuery*
- *Handling Browser Differences in Event Handling Testing*
- *and Debugging Cross-Browser Issues*
- *Browser Compatibility Tools and Services*
- *Progressive Enhancement for Cross-Browser Support Best*
- *Practices for Writing Cross-Browser Code*

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13   jQuery and Web Performance Optimization

- *Minification and Compression of jQuery*
- *Code Lazy Loading of jQuery and Assets*
- *Optimizing Images and Media*
- *Efficient DOM Manipulation Techniques*
- *Reducing HTTP Requests with CDNs*
- *Caching Strategies for jQuery*
- *Applications Measuring and Analyzing*
- *Web Performance Performance Budgeting*
- *for jQuery Projects Continuous Performance Monitoring*

14   jQuery and Cross-Browser Compatibility

- *Integrating jQuery with Server-Side Rendering (SSR)*
- *Frameworks Progressive Enhancement with jQuery*
- *jQuery and WebAssembly*
- *Advanced DOM Manipulation Techniques*
- *State Management with jQuery*
- *Advanced jQuery Plugins*
- *Exploring jQuery's Source Code*
- *Extending jQuery with Custom Utilities*
- *Advanced Customization of jQuery UI Widgets*

INTERNSHIP

Explore valuable internship opportunities with us! Join a dynamic and innovative environment, collaborate on real-world projects, and enhance your skills. We're seeking motivated individuals with a passion for learning and strong communication skills. This internship offers hands-on experience, exposure to industry best practices, and potential career pathways.

VIRAJETECH EXPERTISE CLASS

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JOB READY PROGRAM

PROJECT MENTORING

100 hoursLive Mentoring inindustr y projects

DOUBTS SESSIONS

Twice a week, Live doubts session from mentors and experts

INTERVIEW QUESTIONS

Frequently asked interview questions course included

PLACEMENT ASSISTANCE TEAM

JOB COUNSELLING

Mapping your profile TO suitable job role

RESUME SUPPORT

Personalized resume creation support from professionals

ALUMINI CONNECT

Connect with successful Alumni to learn from experience

PLACEMENT ASSISTANCE

hp · accenture High performance. Delivered. · genpact · Capgemini

cognizant · SAMSUNG · amazon · accenture

amazon · TATA CONSULTANCY SERVICES · ORACLE · HCL

SUTHERLAND · Mercedes-Benz

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OUR LEARNER'S FEED BACK

HIGHEST LEVEL OF CUSTOMER DELIGHT

r **ruchi s**
1 review · 3 photos
⋮
★★★★★ 3 months ago

VirajeTech has been a game-changer for me. Their training courses have provided me with the skills I needed to excel in my career 4X. The instructors and Arjun sir are passionate about what they do, and it shows in their teaching. Hands on and practical way of teaching, I highly recommend VirajeTech to anyone looking to further their knowledge and skills

A **Anoop G**
6 reviews
⋮
★★★★★ 3 months ago

Getting placed at Amency was a dream come true, and I owe a big thank you to VirajeTech for making it possible. The instructors were experts in their field, and they created a supportive learning environment. The hands-on approach and practical exercises made all the difference.

S **Sachidanand Shahane**
3 reviews
⋮
★★★★★ 7 months ago

I am part of the AWS Associate master Class. The course was designed in a fashion that we are able to cover most of the content in a very short time. our trainer Kumar sir clarified any doubt we had and also pushed us to do the practicals which is really helpful in the learning process. Hi having vast knowledge and experience in Devops and Multi cloud platform(AWS,Azure,GCP),he provide the opportunity to get as much knowledge and guidance as possible. each session are interactive has real time use cases.

Sayali Gawde
2 reviews
⋮
★★★★☆ a year ago

Thanks for the AWS tutoring by Virajtech. The best decision I have taken in my career so far. Instructor was very helpful and gave all possible solutions related to the problem which we faced in real time scenarios. This is what I have experienced in this course, a very practical and beneficial one.

Piyush Poply
2 reviews
⋮
★★★★★ 3 years ago

I am connected with this organization since its inception. This is one of the best places to learn, practice and grow your skills up to the standards of the industry. As in IT industry, maintaining your skills and updating yourself is the most important thing, we should never stop learning and this is exactly what this institute provides. The online classes are really great as well as the trainers.

H **Harpreet Singh**
12 reviews
⋮
★★★★★ 7 months ago

Give very detailed explanation and also live teaching classes. Covering all latest topics which for sure help in getting jobs in today's market

ADMISSIONS AND CONTACTS

ENQUIRE FOR DETAILED INFORMATION FOR ENROLLMENT

DURATION:35 HOURS

LEARNING : ONLINE MODE

b 1st floor, 64, 3rd Cross Rd, Electronics City Phase
1, Electronic City, Bengaluru, Karnataka 560100
PHN NO:8618501719

8 HRS/WEEK

SELF STUDY

8 HRS/WEEK

++NSTRUCTOR LED LIVE ONLINE LEARNING

4 HRS/WEEK

PROJECTS & ASSESSMENTS

20 HOURS A WEEK COMMIMENT

JAVA *IS RATED AS* **THE TOP CAREER**

HIGHEST PAID –RECESSION PROOF –MILLIONS OF JOBS

TAKE YOUR FIRST STEP TOWARDS JAVA CAREER

ENQUIRE NOW

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THANK you

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