TS
TECH TEACH
EDUCATIONAL SOLUTIO

JAVA FULL STACK

OUR MISSION :

"Our mission is to empower learners worldwide through innovative technology, personalized learning experiences, and accessible educational resources. We strive to cultivate a community where every individual can achieve their full potential, regardless of their background or circumstances."

OUR VALUES :

"To pioneer the future of education by leveraging cutting-edge technology to make learning more engaging, effective, and inclusive. We envision a world where education transcends boundaries, creating opportunities for lifelong learning and fostering a society enriched by knowledge and creativity."

COURSE CURRICULUM:

Week 1: Introduction to Full Stack Development

- Day 1-2: Overview of Full Stack Development
  - Introduction to full stack development concepts.
  - Overview of the Java technology stack.
- Day 3-4: Setting Up the Development Environment
  - Installing Java, IntelliJ IDEA/Eclipse, Node.js, and other necessary tool
  - Introduction to version control with Git and GitHub.
- Day 5: Introduction to Web Technologies
  - HTML, CSS, and JavaScript basics.
  - Creating a simple web page.

COURSE CURRICULUM:

Week 2: Front-End Development with HTML, CSS, and JavaScript

- Day 1-2: Advanced HTML and CSS
  - Semantic HTML and responsive design with CSS.
  - CSS frameworks (Bootstrap).
- Day 3-4: JavaScript Fundamentals
  - Basic syntax, functions, and DOM manipulation.
  - Modern JavaScript (ES6+ features).
- Day 5: Introduction to Front-End Frameworks
  - Overview of front-end frameworks (React, Angular, Vue.js).
  - Setting up a basic React application.

COURSE CURRICULUM:

Week 3: Advanced Front-End Development

- Day 1-2: React.js Deep Dive
  - React components, state, and props.
  - React hooks and context API.
- Day 3-4: State Management
  - Managing state with Redux.
  - Hands-on: Creating a small project with React and Redux.
- Day 5: RESTful APIs and HTTP Requests
  - Introduction to RESTful APIs.
  - Making HTTP requests with Axios or Fetch API.

COURSE CURRICULUM:

Week 4: Back-End Development with Java

- Day 1-2: Introduction to Java and Spring Boot
  - Overview of Java basics (syntax, OOP principles).
  - Setting up a Spring Boot project.
- Day 3-4: Spring Boot Basics
  - Creating RESTful APIs with Spring Boot.
  - Dependency injection and Spring Boot annotations.
- Day 5: Data Persistence with JPA/Hibernate
  - Introduction to JPA and Hibernate.
  - CRUD operations with Spring Data JPA.

COURSE CURRICULUM:

Week 5: Advanced Back-End Development

- Day 1-2: Spring Security
  - Implementing authentication and authorization.
  - Securing RESTful APIs with JWT.
- Day 3-4: Microservices Architecture
  - Introduction to microservices with Spring Cloud.
  - Creating and managing microservices.
- Day 5: Integration and Testing
  - Writing unit and integration tests with JUnit and Mockito.
  - Testing RESTful APIs.

COURSE CURRICULUM:

Week 6: Database Management

- Day 1-2: Introduction to Databases
  - Overview of relational and non-relational databases.
  - Setting up and using MySQL/PostgreSQL.
- Day 3-4: Advanced Database Concepts
  - Database design and normalization.
  - Using NoSQL databases (MongoDB).
- Day 5: Data Access Layer
  - Creating repositories with Spring Data JPA.
  - Handling database transactions.

COURSE CURRICULUM:

Week 7: DevOps and Deployment

- Day 1-2: Introduction to DevOps
  - Overview of CI/CD concepts.
  - Setting up a CI/CD pipeline with GitLab CI/Jenkins.
- Day 3-4: Containerization with Docker
  - Creating and managing Docker containers.
  - Dockerizing a Java Spring Boot application.
- Day 5: Deployment to Cloud Platforms
  - Deploying applications to AWS/GCP/Azure.
  - Managing environments and scalability.

COURSE CURRICULUM:

Week 8: Final Project and Presentations

- Day 1-4: Project Development
  - Students work on a comprehensive final project that integrates multiple aspects of the curriculum.
- Day 5: Project Presentation and Evaluation
  - Students present their projects.
  - Feedback and evaluation.

Our Partners Company's

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THANK YOU

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