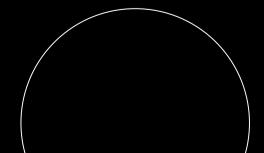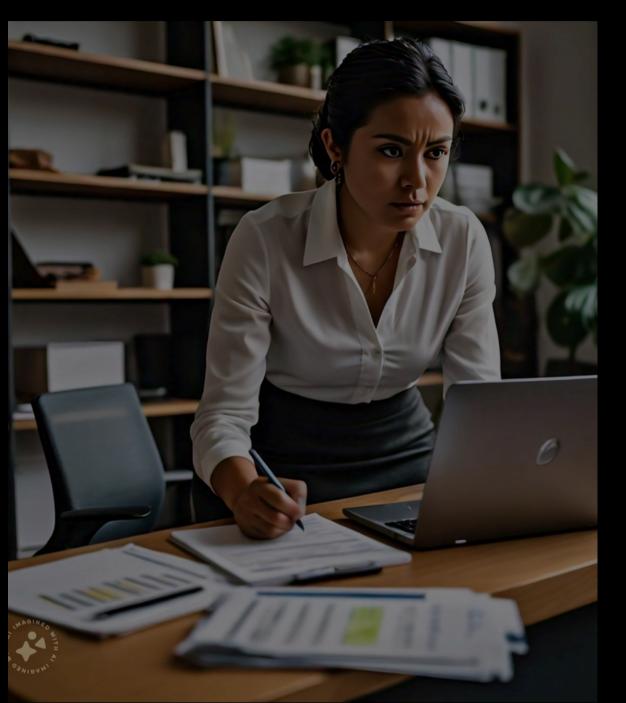**TS** TECH TEACH EDUCATIONALSOLUTIO

App Development

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: Advanced App Development Fundamentals
- Day 1-2: Review of Core Concepts
  - Overview of mobile and web app development.
  - Setting up the development environment (Xcode, Android Studio, VS Code).
- Day 3-4: Advanced UI/UX Design
  - Principles of advanced UI/UX design.
  - Hands-on: Creating complex UI components and layouts.
- Day 5: State Management
  - State management techniques (Redux, MobX, Vuex).
  - Hands-on: Implementing state management in a sample app.

COURSE CURRICULUM:

Week 2: Advanced Mobile App Development (iOS)
- Day 1-2: Advanced Swift Programming
  - Deep dive into Swift language features.
  - Hands-on: Writing complex Swift code.
- Day 3-4: Advanced iOS Frameworks
  - Using advanced iOS frameworks (Core Data, Combine, ARKit).
  - Hands-on: Building features using these frameworks.
- Day 5: Integrating Third-Party Libraries
  - Using CocoaPods and Swift Package Manager.
  - Hands-on: Integrating and using third-party libraries.

COURSE CURRICULUM:

Week 3: Advanced Mobile App Development (Android)
- Day 1-2: Advanced Kotlin Programming
  - Deep dive into Kotlin language features.
  - Hands-on: Writing complex Kotlin code.
- Day 3-4: Advanced Android Frameworks
  - Using advanced Android frameworks (Jetpack Compose, WorkManager, Room).
  - Hands-on: Building features using these frameworks.
- Day 5: Integrating Third-Party Libraries
  - Using Gradle and third-party libraries.
  - Hands-on: Integrating and using third-party libraries.

COURSE CURRICULUM:

Week 4: Cross-Platform Mobile Development
- Day 1-2: Introduction to React Native/Flutter
  - Overview of React Native or Flutter.
  - Setting up the development environment.
- Day 3-4: Building Cross-Platform Apps
  - Hands-on: Building a cross-platform app using React Native or Flutter.
- Day 5: Advanced Cross-Platform Features
  - Implementing platform-specific features.
  - Hands-on: Using native modules and plugins.

COURSE CURRICULUM:

Week 5: Advanced Web App Development (Frontend)
- Day 1-2: Advanced JavaScript and TypeScript
  - Deep dive into JavaScript ES6+ features and TypeScript.
  - Hands-on: Writing complex JavaScript and TypeScript code.
- Day 3-4: Advanced Frontend Frameworks
  - Using advanced features of React, Angular, or Vue.js.
  - Hands-on: Building complex components and single-page applications.
- Day 5: State Management in Web Apps
  - Using Redux, Vuex, or NgRx for state management.
  - Hands-on: Implementing state management in a web app.

COURSE CURRICULUM:

Week 6: Advanced Web App Development (Backend)
- Day 1-2: Advanced Node.js
  - Deep dive into Node.js features.
  - Hands-on: Writing complex Node.js code.
- Day 3-4: Backend Frameworks
  - Using Express, NestJS, or Koa for building APIs.
  - Hands-on: Building RESTful APIs and GraphQL endpoints.
- Day 5: Database Integration
  - Using SQL (PostgreSQL, MySQL) and NoSQL (MongoDB) databases.
  - Hands-on: Integrating databases with backend frameworks.

COURSE CURRICULUM:

Week 7: Testing, Performance, and Security
- Day 1-2: Automated Testing
  - Writing unit, integration, and end-to-end tests.
  - Hands-on: Implementing tests using Jest, Mocha, Cypress.
- Day 3-4: Performance Optimization
  - Techniques for optimizing app performance.
  - Hands-on: Profiling and optimizing apps.
- Day 5: Security Best Practices
  - Implementing security best practices.
  - Hands-on: Securing web and mobile applications.

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.

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