IOS Application Programming

Duration - 18 Days / 144 Hours

Program Description

The objective of this iOS training program is to provide participants with a comprehensive understanding of iOS app development, enabling them to create, test, and deploy high-quality mobile applications.

By combining theoretical knowledge with hands-on experience, learners will explore the iOS ecosystem, including its architecture, tools, and best practices.

The program aims to foster proficiency in Swift programming, user interface design, data management, and application lifecycle management, preparing participants to meet the demands of the ever-evolving mobile development landscape.

Learning Goals

- ❖ Understand iOS architecture and ecosystem.
- ❖ Set up Xcode and project structure.
- ❖ Design responsive user interfaces using SwiftUI and UIKit.
- ❖ Manage view controller lifecycle and navigation.
- ❖ Utilize Core Data and User Defaults for data storage.
- ❖ Execute background tasks with Grand Central Dispatch (GCD).
- ❖ Implement inter-app communication with URL schemes and notifications.
- ❖ Perform networking and integrate APIs using URL Session.
- ❖ Create custom views and ensure accessibility.
- ❖ Apply testing and debugging techniques.
- ❖ Publish applications on the App Store

Course Topics

- ❖ Introduction to iOS
- ❖ Development Environment
- ❖ UI Design
- ❖ View Controller Management
- ❖ Data Management
- ❖ Concurrency and Background Tasks
- ❖ Inter-App Communication
- ❖ Networking and API Integration
- ❖ Advanced Topics
- ❖ Testing and Debugging
- ❖ Publishing Applications