



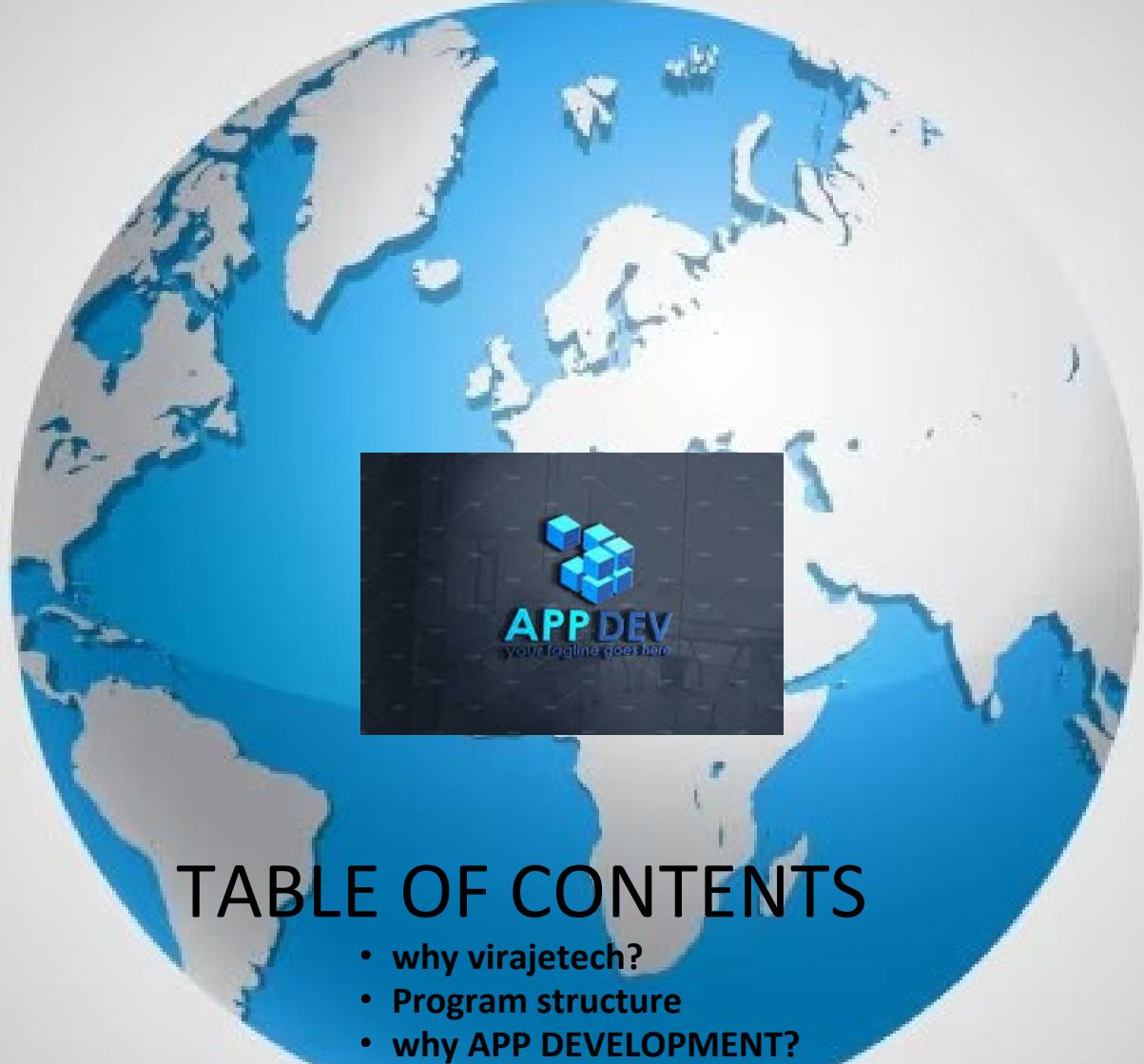
info@virajetech.com



8618501719



# CERTIFIED APP DEVELOPMENT PROGRAM BROCHURE



## TABLE OF CONTENTS

- why virajetech?
- Program structure
- why APP DEVELOPMENT?
- Content
- Internship
- Virajetech expertise classes
- job ready programs
- our learner's feedback
- Admissions and contacts

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# 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 APP DEVELOPMENT careers.



### EXPERT TRAINERS

10+year experienced and Industry Experts  
Elite Faculty from Prestigious universities with deep research and coaching expertise



### COMPREHENSIVE

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

### JOB ASSISTANCE

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

### REALTIME EXPERIENCE

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

# PROGRAM STRUCTURE

THE COURSE FOR BEGINNER'S PROFESSIONALS AND INTERMEDIATE LEARNERS IN THE FIELD OF APP DEVELOPMENT THIS IS A CAREER- ORIENTED PROGRAM, DESIGNED TO IMPART A STRONG FOUNDATION



- 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



# App Development iOS

# APP Development

## WHY APP DEVELOPMENT?

App development courses are crucial for the IT industry due to the escalating demand for mobile applications. In an era dominated by smartphones and tablets, proficiency in app development has become a sought-after skill. This course not only opens up abundant career opportunities but also diversifies the skill set of IT professionals. Beyond traditional programming and system administration roles, app development equips individuals to meet the evolving needs of the tech landscape. The dynamic nature of app development ensures that professionals remain abreast of the latest tools and technologies, fostering adaptability. Moreover, app development fosters innovation and creativity, instilling problem-solving skills vital in the IT industry. Whether aiming for entrepreneurial ventures or contributing to global projects, app development provides a pathway to success. The emphasis on user-centric design and integration with emerging technologies further underscores the significance of app development courses in nurturing a continuous learning culture within the IT sector.



# App Development iOS



## 1. Introduction to iOS Development

- *Overview of iOS Ecosystem*
- *Introduction to Swift Programming Language*
- *Setting Up Xcode IDE*
- *Building Your First iOS App*
- *Understanding the Model-View-Controller (MVC) Architecture*
- *Interface Builder Basics*
- *App Lifecycle and App States*
- *App Navigation and Storyboard Segues*
- *Debugging Tools in Xcode*
- *Version Control with Git*
- *App Distribution and Certificates*
- *Basics of UI/UX Design for iOS*

## 2. Swift Programming Fundamentals

- *Variables, Constants, and Data Types*
- *Control Flow and Conditional Statements*
- *Functions and Methods in Swift*
- *Optionals and Error Handling*
- *Object-Oriented Programming (OOP) Concepts in Swift*
- *Enums and Structs*
- *Closures and Functional Programming*

- *Memory Management in Swift*
- *Advanced Swift Features*
- *Designing Swift APIs*
- *Unit Testing in Swift*
- *Swift Package Manager*

### 3. User Interface (UI) Design in iOS

- *UIKit Framework Overview*
- *Interface Builder and Storyboards*
- *UI Components: Buttons, Labels, Text Fields, etc.*
- *Auto Layout and Constraints*
- *Creating Custom Views and Controls*
- *Animation and Core Animation*
- *Adaptive Layout and Size Classes*
- *Accessibility Features in iOS*
- *Theming and Styling in iOS*
- *Localization and Internationalization*

### 4. iOS App Architecture and Design Patterns

- *Model-View-ViewModel (MVVM) Design Pattern*
- *Delegation and Notification Patterns*
- *Singleton Pattern in iOS*
- *Protocol-Oriented Programming (POP)*
- *Dependency Injection in iOS*
- *Coordinator Pattern*
- *Clean Architecture in iOS*
- *Redux Architecture in iOS*
- *Architectural Patterns for Large-Scale Apps Code*
- *Modularity and Reusability*
- *Testing Patterns in iOS*

## 5. Working with Data in iOS Apps

- ***Core Data Framework***
- ***Working with SQLite Databases***
- ***Networking and URLSession***
- ***Consuming RESTful APIs in Swift***
- ***Codable and JSON Parsing***
- ***Core Location and Maps Integration***
- ***HealthKit and Core Motion***
- ***CloudKit for Data Synchronization***
- ***Offline Data Storage Strategies***
- ***Integrating Machine Learning Models in iOS Apps***

## 6. Multimedia and Device Features

- ***Integrating Images and Icons***
- ***Audio and Video Playback***
- ***Using the Camera and Photo Library***
- ***Core Motion and Sensors***
- ***Location-Based Services and Maps***
- ***Augmented Reality (ARKit)***
- ***Integrating Machine Learning for Image Recognition***
- ***Face ID and Touch ID Authentication***
- ***Core Bluetooth and External Accessories***
- ***Using ARKit for Augmented Reality Experiences***
- ***Core NFC for Near Field Communication***

## 7. Advanced Topics in iOS Development

- ***Background Processing and Multitasking***
- ***Core Animation and Core Graphics***
- ***Integrating Push Notifications***
- ***In-App Purchases***
- ***Accessibility and VoiceOver***
- ***Advanced Animation Techniques***

- *Integrating SiriKit*
- *Integrating HealthKit*
- *Creating Custom Keyboard Extensions*
- *Widget Development*
- *Integrating App Clips*

## 8. Testing and Debugging in Xcode

- *Unit Testing and Test-Driven Development (TDD)*
- *Debugging Techniques in Xcode*
- *Performance Profiling and Optimization*
- *UI Testing in Xcode*
- *Code Review Best Practices*
- *Continuous Integration and Deployment (CI/CD) for iOS*
- *Monitoring and Crash Reporting*
- *Beta Testing and TestFlight*
- *Automated UI Testing with XCTest*

## 9. App Deployment and Distribution

- *App Store Guidelines and Submission Process*
- *Code Signing and Provisioning Profiles*
- *Building Ad-Hoc and Distribution Builds*
- *Beta Testing and TestFlight*
- *App Analytics and User Feedback*
- *Versioning and Release Management*
- *Handling App Store Rejections*
- *Implementing Rate My App and Feedback Mechanisms*
- *Marketing and App Promotion Strategies*
- *App Store Optimization (ASO)*

## 10. Real-world Project Development

- ***Collaborative App Development***
- ***Agile Methodologies for App Development***
- ***User-Centered Design Principles***
- ***Accessibility Testing and Compliance***
- ***Usability Testing and Feedback Iteration***
- ***Performance Optimization in Real-world Apps***
- ***Implementing User Analytics***
- ***Integrating Machine Learning for Predictive Features***
- ***Showcase and Presenting Your App***
- ***Career and Marketplace Considerations in iOS Development***

## 11. IOS App Design Patterns and code structure

- ***Checking Answers using 2-Dimensional Arrays***
- ***Creating a Question Struct***
- ***Giving the User Feedback and working with a ProgressView***
- ***Understand the MVC Design Pattern***
- ***Implementing MVC and Understanding Parameter Names***
- ***[Swift Deep Dive] Functions with Outputs and Return Types***
- ***Refactoring to Implement the MVC Design Pattern***
- ***[Swift Deep Dive] Immutability***
- ***Using Mutating Functions to Track the Score***

# 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



## VIRAJETECH EXPERTISE CLASS

# JOB READY PROGRAM

## PROJECT MENTORING

100 Mentoring projects hoursLive in industry



## INTERVIEW QUESTIONS

Frequently interview asked questions course included



## PLACEMENT ASSISTANCE TEAM



## DOUBTS SESSIONS

Twice a week, Live doubts session from mentors and experts

## JOB COUNSELLING

Mapping your profile to suitable job role



## RESUME SUPPORT

Personalized resume creation support from professionals



## ALUMNI CONNECT

Connect with successful Alumni to learn from experience



## PLACEMENT ASSISTANCE



Mercedes-Benz



**VIRAJETECH**  
E - Learning Platform

# OUR LEARNER'S FEED BACK

## HIGHEST LEVEL OF CUSTOMER DELIGHT

 **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

 **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.

 **Sachidanand Shahane**  
3 reviews  
 7 months ago

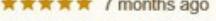
I am part of the AWS Associate master Class. The course was designed in a fashion that we are able to cover most of the content in a very short time. our trainer Kumar sir clarified any doubt we had and also pushed us to do the practicals which is really helpful in the learning process. He having vast 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.

 **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



APP DEVELOPMENT IS RATED AS THE TOP CAREER  
HIGHEST PAID – RECESSION PROOF – MILLIONS OF JOBS



INSTRUCTOR LED LIVE ONLINE LEARNING



4 HRS/WEEK

PROJECTS & ASSESSMENTS

20 HOURS A WEEK COMMITMENT

TAKE YOUR FIRST STEP TOWARDS APP DEVELOPMENT CAREER

ENQUIRE NOW

# THANK you



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