BOARD INFINITY

COURSE 1 OF 3 · HOLISTIC MOBILE APP DESIGN & DEVELOPMENT SPECIALIZATION

Cross Platform Mobile Development with React Native

Full course syllabus - every module, video lesson, reading and assignment, from React Native's architecture to live data in your app.

Board Infinity
Instructor · Offered on Coursera

3	34	14	2 weeks
Modules	Video lessons	Assignments	At 10 hours a week

INSIDE THE COURSE

01	Introduction to React Native and Mobile Development	5 hours to complete
02	Core Concepts of React Native	6 hours to complete
03	Working with Data in React Native	4 hours to complete

Enroll on Coursera

https://www.coursera.org/learn/v2-cross-platform-mobile-development-with-react-native

01 ABOUT THE COURSE

One codebase, two app stores.

Cross Platform Mobile Development with React Native teaches you to build iOS and Android apps from a single JavaScript codebase. Across three modules you learn how React Native works and set up your environment, build interactive screens with navigation, and bring state and live data into your app.

Everything is delivered through short video lectures, coding demos, readings and graded quizzes - 34 videos, 11 readings and 14 assignments in all. It is an intermediate-level course; comfort with JavaScript will help.

WHO IT'S FOR

New mobile developers
Building up from cross-platform basics to a data-driven app.

Native developers
Moving from Swift, Kotlin or Java to one codebase.

Software engineers
Turning JavaScript and React experience into mobile apps.

Computer science students
Following a structured path from architecture to APIs.

WHAT YOU'LL LEARN

01 **Describe React Native's architecture** Module 1
Describe cross-platform development principles and how React Native's architecture works

02 **Develop responsive, interactive apps** Module 2
Develop responsive, interactive apps using components, styling, user input and navigation

03 **Manage state and data** Module 3
Implement state management with hooks and the Context API, data fetching, and media handling

04 **Troubleshoot your app** Modules 1-3
Evaluate and troubleshoot issues in scaffolding, navigation and performance as you build

02 SYLLABUS

Three modules, one cross-platform app.

2 weeks to complete at 10 hours a week. Flexible schedule - learn at your own pace.

01

Introduction to React Native and Mobile Development

Cross-platform principles, architecture, setup and your first app

5 hours

12 videos

BY THE END OF THIS MODULE YOU CAN

- ✓ Compare native and cross-platform development
- ✓ Describe how React Native works, including the bridge and native components
- ✓ Set up Node.js, the React Native CLI, Android Studio and Xcode
- ✓ Create, structure, run and debug a basic React Native app

CONTENTS: 12 videos (71 min) · 4 readings (120 min) · 5 assignments (120 min) · 1 plugin (5 min)

TOPICS: Cross-Platform Development · React Native's Architecture · Environment Setup · Scaffolding Your First App

You'll leave with: a working React Native environment, a first app running on it, and a clear picture of how the framework works.

02

Core Concepts of React Native

Components and JSX, styling, user interaction and navigation

6 hours

13 videos

BY THE END OF THIS MODULE YOU CAN

- ✓ Build functional and class components with JSX, props and state
- ✓ Style screens with StyleSheets and responsive layouts
- ✓ Handle buttons, inputs, touchables and forms
- ✓ Move between screens with stack, tab and drawer navigation

CONTENTS: 13 videos (96 min) · 4 readings (120 min) · 5 assignments (120 min)

TOPICS: React Components · Styling · User Interactions · Navigation Between Screens

You'll leave with: responsive screens users can tap, type into and move between - the building blocks of every app.

03

Working with Data in React Native

State with hooks and Context, API data and lists, media and files

4 hours

9 videos

BY THE END OF THIS MODULE YOU CAN

- ✓ Manage state with useState and useEffect, lifted state and the Context API
- ✓ Fetch data from APIs with Fetch and Axios
- ✓ Display data in FlatList and SectionList with pull-to-refresh and pagination
- ✓ Handle images, video, audio, and file uploads and downloads

CONTENTS 9 videos (66 min) · 3 readings (90 min) · 4 assignments (105 min)

TOPICS Managing State | Fetching and Displaying Data | Storing Data Locally | Media and File Handling

You'll leave with: an app that manages its own state, loads live data from an API, and handles media and files.

03 TOOLS & SKILLS

The tools that run through the course.

React Native

Core theme

One JavaScript codebase for iOS and Android apps.

In this course: Used in every module, from architecture and setup to live data.

Android Studio, Xcode & CLI

Environment

Node.js, the React Native CLI and both platform toolchains.

In this course: Module 1 sets them up and scaffolds, runs and debugs a first app.

Components & React Navigation

User interface

JSX, StyleSheets, forms, and stack, tab and drawer navigators.

In this course: Module 2 builds responsive screens users can move between.

Hooks, Context & Axios

Data

State management, API requests, lists, and media handling.

In this course: Module 3 brings live data and media into the app.

SKILLS YOU LEAVE WITH

Foundations

- Cross-platform principles
- React Native architecture
- Environment setup
- Scaffolding & debugging

User interface

- Components, JSX & props
- Styling & responsive layouts
- Forms & user input
- Stack, tab & drawer navigation

Data

- Hooks & Context API
- Fetch & Axios requests
- Lists, refresh & pagination
- Media & file handling

04 CERTIFICATE & CAREER

Finish with a shareable certificate.

Add it to LinkedIn

Add this credential to your LinkedIn profile, resume, or CV.

Share it anywhere

Share it on social media and in your performance review.

Earned, not attended

Awarded on completion of the graded quizzes in all three modules.

Course 1 of 3

Starts the Holistic Mobile App Design & Development Specialization.

ROLES THESE SKILLS SUPPORT

React Native Developer · Mobile App Developer · Front-End Developer · Full-Stack Developer · iOS / Android Developer · Freelance App Developer

Board Infinity

Instructor · Offered on Coursera

Intermediate level · Taught in English · 9 languages available · Flexible schedule

Ready to ship to both app stores?

Enrollment, lessons, grading and the certificate all happen on Coursera.

Enroll on Coursera

Course page: coursera.org/learn/v2-cross-platform-mobile-development-with-react-native

Want a coach alongside the course?

Board Infinity 1:1 coaching is a separate, optional Board Infinity offering - it is not part of the Coursera course. Details: https://www.boardinfinity.com/career-coaching/

Board Infinity is an independent education provider. Coursera and the Coursera logo are trademarks of Coursera, Inc. React Native is a trademark of Meta Platforms, Inc. This independent educational resource is for informational and educational purposes only and is not affiliated with, endorsed by, sponsored by, or officially associated with any company, organization, or certification body unless explicitly stated.