

Master App Development: 31-Day Strategy to Crack React Native, Express, and MongoDB with Coding Genius .

Week 1: Introduction and Setup

Day 1: Introduction to React Native

- Overview of mobile app development
- Setting up the development environment

Day 2: Basics of React Native

- Components, state, and props
- Creating a simple "Hello World" app

Day 3: Styling and Layout

- Flexbox for layout
- Stylesheets in React Native
- Responsive design principles

Day 4: Handling User Input

- Text input, buttons, and touchable components
- Forms and validation

Day 5: Navigation in React Native

- React Navigation setup
- Stack, tab, and drawer navigators

Day 6: Working with Lists

- FlatList and SectionList
- Optimizing list performance

Day 7: Review and Practice

- Recap of the week's topics
- Hands-on practice and mini-project

Week 2: Advanced React Native Concepts

Day 8: Networking and API Integration

- Fetch API and Axios
- Handling API requests and responses

Day 9: State Management with Redux

- Introduction to Redux
- Setting up Redux in a React Native app

Day 10: Advanced State Management

- Actions, reducers, and the store
- Connecting components to Redux

Day 11: Asynchronous Actions with Redux Thunk

- Setting up Redux Thunk
- Handling async operations in Redux

Day 12: AsyncStorage for Local Storage

- Storing and retrieving data with AsyncStorage
- Managing app state with local storage

Day 13: Animations in React Native

- Basic animations with Animated API
- Using third-party animation libraries

Day 14: Review and Practice

- Recap of the week's topics
- Hands-on practice and mini-project

Week 3: Backend with Express.js

Day 15: Introduction to Node.js and Express.js

- Setting up Node.js and Express
- Basic routing and middleware

Day 16: Building a RESTful API

- CRUD operations
- RESTful principles and practices

Day 17: Connecting to MongoDB

- Introduction to MongoDB

- Setting up MongoDB and Mongoose

Day 18: Creating Models and Schemas

- Defining data models with Mongoose
- Validations and schema types

Day 19: Authentication and Authorization

- JWT-based authentication
- Protecting routes and user roles

Day 20: Error Handling and Validation

- Handling errors gracefully
- Input validation with express-validator

Day 21: Review and Practice

- Recap of the week's topics
- Hands-on practice and mini-project

Week 4: Integrating Frontend and Backend

Day 22: Setting Up the Frontend-Backend Connection

- Connecting React Native with Express API
- Environment variables and configuration

Day 23: User Authentication

- Implementing login and signup
- Managing user sessions

Day 24: Data Fetching and State Management

- Fetching data from the backend
- Managing data with Redux

Day 25: Real-time Data with WebSockets

- Introduction to WebSockets
- Implementing real-time features

Day 26: Advanced Navigation

- Deep linking and navigation guards
- Custom navigation logic

Day 27: Performance Optimization

- Profiling and optimizing React Native apps
- Backend performance tips

Day 28: Building the Final Project (Part 1)

- Project requirements and scope
- Setting up the project structure
- Frontend development

Day 29: Building the Final Project (Part 2)

- Backend development
- Implementing core features

Day 30: Integrating and Testing

- Connecting frontend and backend
- End-to-end testing

Day 31: Review and Wrap-Up

- Final project presentation
- Review and Q&A
- Next steps and advanced topics