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**MERN Stack Course Outline**

React Native is a great option for creating performant iOS and Android applications that feel at home on their respective platforms, all while building on any previous web development experience. One of its greatest advantages is that it is written in JavaScript and with that you can maximize code reuse between platforms. This course is going to go through the basics of React Native, Redux, third party API integration and the best ways to structure your React Native projects for success. In this course we will be building the ultimate superhero app. This app will let you build the superhero team of your dreams, well if you dream in Marvel that is. By the end of this course you should have the confidence to build upon the app that we started and take it to the next level.

React Native lets you build mobile apps using only JavaScript. It uses the same design as React, letting you compose a rich mobile UI from declarative components.  A React Native app is a real mobile app that's indistinguishable from an app built using Objective-C or Java. The DEV6 “React Native Jumpstart” training course provides the essential knowledge for developers who need to start building apps using React Native.

The course provides in-depth training on:

* Components
* State Management and Redux
* Fetch API
* Native Styling and Animations
* Debugging React Native Apps
* Platform Specific Code
* And much, much more

 As the React Native training class is delivered, you will be given numerous practical examples and demonstrations.  You will also build a complete React Native application as the course is being taught.  On the last day of the course, you will receive expert advice and guidance for starting your first solo React Native project.

This training course was designed and developed by web application developers who use React Native on real-life projects.   As such, the training includes many React Native best practices that can’t be found elsewhere. The course is highly interactive and features significant hands-on coding.

**1st month ECMAScript ES6**

**1 Programming in Typescript**

* ES6 overview
* ES6 enrolment
* ES6 Syntax
* ES6 Variable
* ES6 Operators
* ES6 Decision
* ES6 Loops
* ES6 Functions
* ES6 Events
* ES6 Cookies
* ES6 Page Redirect
* ES6 Dialog box
* ES6 Void Keyword
* ES6 Objects
* ES6 Loops
* ES6 Numbers
* ES6 Booleans
* ES6 String
* ES6 NEW String Methods
* ES6 Arrays
* ES6 Dates
* ES6 Math
* ES6 RegExp
* ES6 Collections
* ES6 Classes
* ES6 Promises
* ES6 Modules
* ES6 Validations
* ES6 Animation
* ES6 Image Maps
* ES6 Loops
* ES6 Map

**Typescript Programming**

**1 Programming in Typescript**

* Create a Simple Program
* Define a Simple Class
* Create and Initialize Variables
* Write an Expression
* Work with Arrays

**2 - Controlling Program Flow**

* Write If Statements
* Write a Switch Statement
* Write a For Loop
* Write While and Do...While Loops

**3 - Working with Java Class Libraries**

* Use the typescript Class Library
* Invoke Attributes of an Object

**4 - Creating Classes**

* Define Methods
* Overload a Method
* Define Constructors
* Create Static Class Members
* Use Command-Line Arguments
* Define

**5 - Implementing Inheritance**

* Import a Class
* Extend a Class
* Override Methods
* Create Interfaces
* Implement Interfaces
* Work with Objects

# 2nd months React Native Framework

**Environment Setup – Hello World**

* Reviewing Dependency Management, the Build Toolchain and Flow
* React Native application starter kits
* Android SDK Setup

**Debugging React Native Apps**

* Using the In-App Developer Menu
* Chrome Developer Tools
* Using the integrated debugger with an IDE

**Building Components**

* Reviewing JSX and React Component Basics
* RN Core Components
* Other Libraries (NativeBase)

**State Management and Redux**

* Reviewing Redux
* Navigator and Redux Navigation

**Fetch API**

* Network Requests
* Consuming APIs
* Network Error Handling

**Native Styling and Animations**

* FlexBox
* StyleSheet
* Animated API
* Performance

**Platform Specific Code**

* Platform API
* Following UX Guidelines
* Native Extensions

# React Native Framework

* React Native Overview
* React Native Environment setup
* React Native JSX
* React Native App
* React Native State
* React Native Props
* React Native Styling
* React Native Flexbox
* React Native List
* React Native Text inputs
* React Native ScrollView
* React Native Images
* React Native Https
* React Native Buttons Events
* React Native Animation
* React Native Routers
* React Native Runnig IOS

# React Native Component Api

* React Native View
* React Native Webview
* React Native Model
* React Native Picker
* React Native Status Bar
* React Native Switch
* React Native Text
* React Native Alert
* React Native Geolocation
* React Native Todo app

# ReactJS Framework

* ReactJS Environment setup
* ReactJS JSX
* ReactJS component
* ReactJS state
* ReactJS Props views
* ReactJS Props Validation
* ReactJS Component API
* ReactJS Component life cycle
* ReactJS Forms
* ReactJS Events
* ReactJS Refs
* ReactJS Keys
* ReactJS Routers
* ReactJS Flux
* ReactJS Using Flux
* ReactJS Animation
* ReactJS High order Components
* ReactJS Geo LOoaction
* ReactJS Status Bar
* ReactJS web view

**3rd months Nodejs**

* + First Application
  + PERL terminal
  + Nodejs npm
  + Nodejs Callback
  + Event loop
  + Event Emitter
  + Nodejs Buffer
  + Nodejs Streem
  + Nodejs File
  + Node js Global object
  + Nodejs Utile module
  + Web modules
  + Express Frame Work
  + Nodejs RestFUL Api
  + Nodejs Scaling Application
  + Nodejs package

**Expressjs**

* ExpressJS Environment
* ExpressJS Routing
* ExpressJS HTTP method
* ExpressJS URL building
* ExpressJS middleware
* ExpressJS Templating
* ExpressJS Static file
* ExpressJS from data
* ExpressJS DATABASE
* ExpressJS Cookies
* ExpressJS Session
* ExpressJS Authentications
* ExpressJS RESTFULL Api
* ExpressJS Error Handling

**Mongodb Database noSQL**

# 4th MongoDB Database

* MongoDB environment
* MongoDB Data modeling
* MongoDB create database
* MongoDB Drop database
* MongoDB Create Collections
* MongoDB Drop Collection
* MongoDB Datatypes
* MongoDB Insert Document
* MongoDB Query Document
* MongoDB Update Documents
* MongoDB Delete Documents
* MongoDB Projection
* MongoDB Limite Record
* MongoDB Indexing
* MongoDB Aggregation
* MongoDB shading
* MongoDB Create Backup

Advance MongoDB

* MongoDB Relationship
* MongoDB Database Reference
* MongoDB Coverd Query
* MongoDB Anylysis Queries
* MongoDB Advance Indexing
* MongoDB Indexing Limiting
* MongoDB ObjectId
* MongoDB Text Search
* MongoDB Regular Expression
* MongoDB Rockmongo
* MongoDB Auto increment

**Projects real time Firebase DataBase**

**FIREBASE**

1) AngularJS & ReactJS working with Firebase Realtime Database

2) AngularJS & ReactJS Push Notifications using Firebase Cloud Messaging

3) AngularJS & ReactJS Firebase – Integrating Analytics

4) AngularJS & ReactJS Getting Started with Firebase – Login and Registration Authentication

5) AngularJS & ReactJS Building Realtime Chat App using GCM, PHP & MySQL

6) AngularJS & ReactJS Build Core databse

7) AngularJS & ReactJS Location API using

8) AngularJS & ReactJS Play YouTube Video in Android App

9) AngularJS & ReactJS App store And play Store

**Team Members:**

**Shahnawaz Shah : Senior Android & iOs Developer**

5 years Experience as a Native & Hybrid Application Developer ( Zaaviyah Solutions)

**Khurram Khan : Senior Software developer**

4 years Experience .Net , Hybrid Applications ( Zaaviyah Solutions)

**Ejaz Yousafzai :Software Developer**

2 years Experience Mobile Apps Developments ( Zaaviyah Solutions)

**Waqar : Software developer**

3 years Experience Mean Stack ( Zaaviyah Solutions)

**Abdullah Shahid: Mean Statck developer**

1 years Experience Mean Stack (Apptron Technologies )

**Noreen Qamar : Front-end developer**

4 years Experience (UI ,UX)