Application Development (React native/Expo)

**What is an App/Application?**

.An app is computer software, or a program, most commonly a small, specific one used for mobile devices.

The word "app" is an abbreviation for "application."

programmers are Mostly used two types of platformes to develop the application

1. Library
2. Frameworks

**Different between library & Frameworks.**

Simply, when programmers are use library, they can customize the command as they want.its mean programmer can give command to library but when use frameworks,programmer should work accoding to the frameworks command.

**Command Command**

**Programmer Library Framework Programmer**

**Types of frameworks**

A framework is a platform to develop an application.

There are lots of frameworks types used to develop the application, game, web app & software.in programming different types of frameworks used accoding to language that used to coding. Most famous frameworks are based on java script(JS)

**Exampale for JS Frameworks**

1.Aureliya Js

2.Emben

3.polymer

4.meteor

5.nodejs(Library)

6.BackBoneJs

7.Jquery(Library)

8.VueJs

9.ReactJs

10. Angular

**Types of Mobile Frameworks**

There are three types of main mobile frameworks and This classification use accoding to the types of mbile app.

**1.Web App**

**2.Native App**

**3.Hybrid App**

* **Web App**

**What is a web app?**

Web app is an application built like regular website and design looks good on mobile device.specially this web app runs inside the browser.

Framework Examples

1.Angular Js

2.React Native

3.Native Script

4.Blazor

5. ionic

Web app vs **Proggrasive web app (PWA)**

The difference is that **PWA** is a “boosted” **Web App**.it is safe & Progressive.

* **Native App**

**What is a Native app?**

Native app is an application buil for specific platform.

Framework examples

1.X code

2.Android studio

* **Hybrid Apps**

**What is a Hybrid app?**

**Hybrid mobile apps** are **applications** that are installed on a device. And programmers are use web develop languge and programming language to develop the app.

* **Cross Platforms Native**

Cross platforms app also use the same frameworks and accoding to the frameworks programmers are use web, programming languages to develop the cross platforms native app.and another thing is cross platform is native container app

Framework Examples

1.Xamarin

2.React Native

3.Flutter

4.Uno

5.Kotlin Native

**Framework for ” ToDoNotes ” App**

Choosed Framework is **React Native.**

React native is developed by facebook to develop mobile app for multiple platforms.that is the main feature of React Native.low requirement need to develop the app.React Native use Java script to develop the app. Another important thing is React is Open source Framework. React Native use to develop Cross platforms native,Hybrid and Prograssive web app

**React Native supported Platforms.**

Android, Android TV, iOS, macOS, tvOS, Web, Windows

**X Code / Android Studio Vs React Native**

**X Code / Android Studio**

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| **Pros** | **Cons** |
| Preformence very Hight |  |
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**React Native**

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| **Pros** | **Cons** |
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**Considerations**

* Development cost -
* Time to Market
* Maintaning cost
* Preformence
* Availability
* Sequrity
* Hiring
* UX