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 platforms 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 according 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 according to language that used to code. Most famous frameworks are based on java script (JS)

**Example 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 according to the types of mobile 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 **Progressive 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 built 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 language and programming language to develop the app.

* **Cross Platforms Native**

Cross platforms app also use the same frameworks and according 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**

Choose 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 needs to develop the approach 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 Progressive web app

**React Native supported Platforms.**

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

|  |  |  |  |
| --- | --- | --- | --- |
| **React Native** |  | **Other Frameworks** |  |
| **pros** | **cons** | **pros** | **cons** |
| One code for all platforms | Lack of some work | Excellent documentation | High maintaining cost |
| Live reload | Debugging failure | Templates can be update | Not an open source |
| Less maintains cost | Less features have to work | Hi level features | Code work only single platform |
| Strong community support | Price is cheap | Modern IDE |  |
| Open source |  | Strong CLI |  |

**Value Added Future**

Now, people are use multiple apps every day, when use these app that most of app have this type of feature. people need to save their important things to save somewhere.

When coding this type of app, the app needs this type of feature to add some value to save.

**Considerations**

* Development cost -
* Time to Market
* Maintaining cost
* Performance
* Availability
* Security
* Hiring
* UX

**Favorite mobile app**

Favorite mobile app: Facebook

* Hi level features.
* Hi level Security.
* Multiple Usages.
* Some features are very complicate but that features are very useful.
* No Useless UI Design.
* Good User Experience.
* Easy to Communicate with other apps.
* The features very useful to day-to-day life.
* Good for Business.