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.

<u>Framework examples</u>

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

<u>Framework Examples</u>

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.