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Welcome, Supriya Sen!



React Native CLI Vs EXPO

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React Native CLI

1. Overview:

React Native CLI is the original method to create React Native apps. It
provides a more flexible and customizable environment.

2. Features:

- **Native Code Access:** Direct access to native code allows for greater flexibility and customization.
- **Custom Native Modules:** You can add custom native modules or third-party libraries that require native code.
- Advanced Configuration: More control over the configuration of Android and iOS builds.
- **Complex Integrations:** Suitable for projects requiring complex integrations with native SDKs or extensive native code.

3. Setup and Configuration:

- **Installation:** Requires setting up a development environment with Android Studio (for Android) and Xcode (for iOS, macOS only).
- **Customization:** High level of customization for native code and build configurations.

4. Pros:

• **Full Control:** Provides full control over the app's native code and configuration.

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• Flexibility: Allows for custom native code and third-party libraries.

 Performance: May offer better performance for apps with complex native interactions.

5. Cons:

- Complexity: More complex setup and configuration compared to Expo.
- Maintenance: Requires managing native code and dependencies manually.

Expo CLI

1. Overview:

 Expo CLI is a framework and platform for universal React applications. It simplifies the development process with a managed workflow.

2. Features:

- Managed Workflow: Provides a managed environment with pre-configured settings and libraries.
- Easy Setup: Simplifies setup with no need for native code configuration.
- Expo Go App: Allows you to run and test your app on physical devices without installing a development environment.
- Over-the-Air (OTA) Updates: Supports pushing updates directly to users without needing to go through app store reviews.

3. Setup and Configuration:

- **Installation:** Easier setup with the Expo CLI and does not require Android Studio or Xcode (for basic development).
- Managed Build: Limited control over native code; focuses on a set of preconfigured libraries and components.

4. Pros:

- Simplicity: Easier to get started with a pre-configured environment.
- Rapid Development: Faster development with less configuration and setup.
- Cross-Platform: Provides tools for cross-platform development and testing.

5. Cons:

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• **Limited Customization:** Less flexibility in adding custom native modules or libraries.

- **Performance:** May have performance limitations for apps requiring extensive native code or custom native modules.
- **Expo SDK Limitations:** Depends on the Expo SDK; some native libraries might not be supported.

When to Use Which

- Use React Native CLI if:
- You need full control over native code and configuration.
- Your app requires custom native modules or third-party libraries with native dependencies.
- You are working on a complex project with specific native requirements.
- Use Expo CLI if:
- You want a simpler, more streamlined development process.
- You are building a prototype or a project that fits within the capabilities of the Expo SDK.
- You want to avoid dealing with native code and complex configurations.
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Both tools have their strengths and are suitable for different types of projects. Choosing the right tool depends on your specific needs and the level of customization required.