

Mobile App Development



Theory Assignment # 1

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Explore the different frameworks/Tech Stacks available for cross platform mobile application development. Prepare a report that include following:

1. A comparison of Native and Cross Platform mobile app development.

Native Mobile App Development:

- High performing apps that are presto, responsive, and less likely to crash.
- High cost of development since it requires erecting further than one app if you wish to distribute your products or services to multiple platforms.
- Maintenance is equally time-consuming and costly.
- High, as codes must be written from scratch for each platform.
- Platform SDK ensures access to device's API without any hindrance.
- Lower dependent on other open- source libraries or platforms.
- harmonious with the UI factors of the device.
- Native apps are developed in platform specific language.

Cross Platform Mobile App Development:

- Cross-platform apps are frequently agonized with performance issues.
- Cross-platform apps are comparatively slower than the native bones.
- fairly cheaper in terms of both development and conservation.
- Low, as single law can be used on multiple platforms.
- No assured access to device's API.
- Needed moxie is easier to find as utmost cross platform fabrics are web grounde d.
- Largely dependent on colorful libraries and tools.
- Cross-platform apps are developed in JavaScript which is compatible with multiple platforms.
- Limited consistency.

2. Different scenarios where each native and cross platform mobile app development is preferred.

Native app development:

Native app is preferred in case where you want an app installs directly on a mobile device and it works offline. Data associated with the native app is stored on

the device or ever-- similar as in pall- grounded storehouse. With the capability to tap into specific coffers, native apps can snappily pierce multiple services on a device, similar as the microphone, accelerometer or push announcements. exemplifications of native operations range from navigation programs, similar as Waze, to social apps, similar as Twitter, or games, similar as Pokémon GO. Native apps do not bear complex law that has to work on multiple platforms, which is why similar apps are suitable to display rudiments briskly. It also generally turns out to be a cost-effective process. It's also an accessible option for druggies because an app can work offline. They can get access to the services they need without using Internet connection.

Cross platform app:

When you want to build an app in low cost and want Reusable Codebase & Good Product Maintenance then cross platform app is best.

Choosing across-platform development option gives your inventors an occasion to use a common codebase and transfer law to other platforms without writing unique law for each zilch's. therefore, the testing stage becomes a lot easier for your platoon. The deployment of upgrades and fixes will lead to indefectible labors because everybody will know what to anticipate.

Cross-platform app development ensures reduction of the outspoken charges and helps you to cover a wider request and increase fashion ability of your brand.

3. List of frameworks/Tech Stack for cross platform mobile Application development.

Cross-platform is a type of software that can run on multiple computing platforms i.e., Android, iOS, Windows, Blackberry, etc.

List of frameworks:

- Ionic
- React Native

- Flutter
- Xamarin
- Native Script
- Node.js
- Appcelerator Titanium
- PhoneGap
- Sencha Touch
- Corona SDK