

**MAD Theory Assignment 01**

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**Question:01**

**Native Mobile Development vs Cross Mobile Development**

**Native development** is defined as to make app which is made for some specific Operating System i.e., Android, Mac, iOS. It makes apps for single platform. They are known to deliver exceptional user experience as they are generally high performance. It has Broad functionality, Better User experience increased Scalability. The offline capability allows businesses to operate in regions with low internet connectivity.

On the other hand, **Cross Mobile development** is used for creating apps which works on several platforms. This is done by using tools like Flutter and React Native. Through it we can save cost and time but risk Quality. Startups will favor the reduction in time and cost with cross-platform development. However, it might be more difficult to customize the app beyond what’s allowed in the framework. It is single code base but slower app and less Functionality.

**Question:02**

Cross-platform apps are comparatively slower than the native ones. Relatively low as it gets difficult for developers and designers to cater to all the UX requirements of multiple platforms in a single app. Moreover, an attempt to enhance UX often hampers speed.

Native platform refers high cost of development since it requires building more than one app if you wish to distribute your products or services to multiple platforms.

Maintenance is equally time-consuming and costly.

Native apps are developed in platform specific language. For instance, Objective C and Swift for iOS, while Java or Kotlin for Android.

If you want a reliable app with fantastic performance, no budget and time constraint, and targeted to only Android or iOS user base, choosing native over cross-platform development would be like hitting the bull’s eye.

On the other hand, if you want to develop apps which focus on a broader user base and are developed in the most cost & time effective way, cross-platform apps would be best bet.

We realize that every business has its unique set of requirements to address its challenges. This is why we offer services to our clients in various technologies, including native and cross-platform, to build the perfect mobile application, tailor-made for their enterprise.

**Question no 3:**

List of Frameworks/tech stack for cross platform mobile Application development.

**List of Frameworks**

* Node js
* Appcelerator Titanium
* PhoneGap
* Sencha touch
* Xamarine
* Native Script
* Corona SDK
* Ionic
* React Native
* Flutter