Task 01

Mobile Application Framework

01)

I would propose hybrid mobile application framework to develop "Todo Notes". And here are the reasons to choose Hybrid Mobile Application framework.

- Hybrid Mobile Applications are easier and faster to maintain and develop.
- Hybrid applications use a single code base for various platform.
- The other main advantage is, mobile applications usually suffer from limitations due to the lack of offline support. But this problem does not exist in hybrid mobile applications because of the offline accessibility feature.
- Also, hybrid applications offer high speed and performance. And the reason is that there is no dependence on network communication.

02)

Hybrid Mobile Application

Pros

- A hybrid application is cheaper to create than a native application.
- Hybrid applications are usually faster to build and deploy.
- It's generally simpler to maintain and update web technology.
- A hybrid application can be built just once and released on both Android and IOS.

Cons

- Limited functionalities.
- Users will need to open their web browser to run the application.\
- A hybrid application develops only one code base for both platforms, but sometimes certain features or designs in both devices are not supported.

Native Mobile Application

Pros

- Native apps can be used offline.
- Native app development provides fast graphics, fluid animation and smooth transitions.
- Native apps can be more secure.
- There are many other support documentation and online resources dedicated iOS and android development.
- There are better testing and debugging tools and environments available for native app development.

Cons

- Native apps are more expensive to build and deploy.
- Native apps are built using more technical languages.
- It takes a lot of time to develop and deploy a native mobile app.

Hybrid apps are typically easier and faster to develop than native apps. The other advantage of hybrid apps is developers can build them on a single base. They also require less maintenance.

03)

04)

- Target audience
    - We have to identify what kind of users will be most interested in our app, we can plan the design and functionality according to their preferences.

- Mobile platform

- Database

    - Data structure
    - Size of data to be stored
    - Speed and stability
    - Accessibility of data
    - Safety and security of data

- Accepting payment
    - This allowed customers to easily pay for various goods and services.

- Maintenance and Security

- Design

    - Poor user-interface can turn off users and make them uninstall our application.

- Budget and time frame

05)

<u>Instagram</u>

Instagram is one of the most popular mobile photo, video sharing application. We interact with other users on Instagram by following them, being followed by them, commenting, liking, tagging, and private messaging. Also, Instagram is a great way of making new friends.

<u>Discord</u>

Discord is popular among the gaming community and it is a powerful and useful online voice and text chat application for gamers. As a gamer, we can chat and talk to our gaming partners in real-time while playing the multiplayer games. We can create our own server if we need a private community.