Task 1 (Mobile Application Framework)

1. **With your knowledge on application development frameworks provide the framework solution you would propose to develop "ToDoNotes". Justify your answer.**

   There are two kinds of app development frameworks. Which are native apps and cross-platform apps.

   The term native app development refers to building a mobile app exclusively for a single platform. The app is built with programming languages and tools that are specific to a single platform. For example, you can develop a native Android app with Java or Kotlin and choose Swift and Objective-C for iOS apps. And when it comes Cross-platform development, it points to the process of creating an app that works on several platforms. Where the apps created can be deployed on both Android and iOS.

   To develop ToDoNotes, I'm going to for cross platform application development. And I'd be using the tool called React Native. Because It provides a slick, smooth and responsive user interface, while significantly reducing load time. It's also much faster and cheaper to build apps in React Native as opposed to building native ones, without the need to compromise on quality and functionality.

2. **Compare and contrast your frameworks with other available mobile frameworks stating the pros and cons (3 points each for pros and cons)**

   Native App Development – Ex: for IOS – Xcode, for Android – Android Studio

Pros	Cons
Broad Functionality	Costly
Better Store Support	Time Consuming
Increased Scalability	Only for one operating System
High Performance	
Great UX	

   Cross Platform App Development – Ex: Xamarin, React Native, Uno, Kotlin Native, Flutter

Pros	Cons
Less Costly	Limited Functionality
Faster Development	Limited UX
Single Code Base	

   (Source: Lecture Slides)

3. **Suggest a value-added feature for "ToDoNotes" showing your creativity**

   Time Tracking Feature

   Users get to track their time they spend on each task, this would be a useful feature specially for project managers.

4. **What are the considerations done when deciding a mobile application framework?**

   Development cost
   Maintenance
   Performance
   Security
   Hiring
   User Experience

5. **State your favorite mobile application explaining why**

   Asana

   I have used more than 10 project management apps and so far Asana is the best project management app I have used

   Asana mobile app is designed to make it easier for team to work together and track their work. Users can organize tasks and projects, manage to-do lists, get updates from coworkers and more, all on their mobile devices.

   Users can also comment on tasks to help clarify instructions or to ask questions. It has everything that desktop version has

   User experience wise it is simple and fast that is why I like this app more than any other app. This has helped me to complete more than thousands of tasks without any delays. It is a great tool specially for Entrepreneurs who has multiple businesses like myself.