

Task 1 (Mobile Application Framework)

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

Available types of frameworks

Native, Cross Platform, Progressive Web apps

To-do Notes framework

Cross Platform Native – React Native Framework.

To-do App features

- Basic Interface
- Simple User Experience
- Ability to work on Android and IOS
- Ability to build in a short time with less cost
- No hardware features used

Taking the above important features of the app into consideration, A PWA cannot be created as this to do app doesn't have a website. Therefore, the two remaining would be native and cross platform apps. I would go with React Native which is a cross platform as it is much faster and less costly to create the to do app. The app can run in Apple and IOS with one code base.

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

	Pros	Cons
Native	<ul style="list-style-type: none">• Best User Experience• Fastest and Most Responsive• Can use device hardware	<ul style="list-style-type: none">• Separate versions need to be built for android and IOS• Very Expensive• Time consuming
Cross Platform Native - Hybrid	<ul style="list-style-type: none">• One code base for Android and IOS• Cheaper to build• Faster Development	<ul style="list-style-type: none">• Slow Performance• Functionality Limitaitons• Long wait for new features
Progressive Web Apps	<ul style="list-style-type: none">• Works for any user regardless of browser used• Responsive• Secure	<ul style="list-style-type: none">• IOS features are limited• App store traffic• Drains battery power

3. Suggest a value-added feature for “ToDoNotes” showing your creativity

Ability to add timers for the to-do points

eg: Recurring To-dos

Check Internet data every Monday – the to-do reminds you every Monday

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

Development and Maintenance Cost

Timeline to develop

Performance

Security

Hiring

5. State your favorite mobile application explaining why

Flo App

It's a menstrual app that helps me keep track of my menstrual cycles and reminds me when the dates are close, helps me prepare for it. It also gives tips and exercises to reduce cramps etc. It also has a discussion forum where people are able to discuss issues anonymously.