



SNS COLLEGE OF TECHNOLOGY



Coimbatore-35

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A++' Grade

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DEPARTMENT OF COMPUTER APPLICATIONS

23CAT607- CROSS-PLATFORM APP DEVELOPMENT

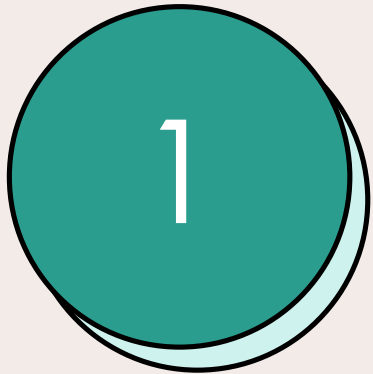
I YEAR II SEM

UNIT 1 – INTRODUCTION WEB DESIGN

TOPIC 3 – Criteria for creating Cross-platform App



Agenda



What is Cross-platform App



Criteria of Cross platform app



What are the criteria's



Diagrams



Summary



Criteria of Cross-platform App



Platform Support

- ✓ Determine the target platforms you want your app to run on, such as iOS, Android, Web, Windows, macOS, or Linux.



- ✓ This will help you choose the appropriate cross-platform technology and framework



Criteria of Cross-platform App



Development Approach

- ✓ Decide whether you want to use a native approach (building separate codebases for each platform), a hybrid approach (using web technologies like HTML, CSS, and JavaScript wrapped in a native container), or a cross-platform framework (**like React Native, Flutter, or Xamarin**) that allows you to write code once and deploy it across multiple platforms.





Criteria of Cross-platform App



User Experience

- ✓ Ensure that your cross-platform app provides a native-like user experience on each target platform. Users expect apps to look and feel like they were built specifically for their device's operating system.





Criteria of Cross-platform App



Performance

- ✓ Cross-platform apps should perform as well as native apps.
- ✓ Consider the performance implications of your chosen technology, especially for resource-intensive applications like games or video editing software.





Criteria of Cross-platform App



Access to Native Features

- ✓ Evaluate your app's requirements for accessing native device features like cameras, sensors, Bluetooth, or push notifications.
- ✓ Cross-platform frameworks often provide plugins or modules to bridge the gap between the cross-platform code and native platform APIs.



Developer Experience

- ✓ Choose a cross-platform technology that aligns with your team's existing skills and development workflows.
- ✓ Frameworks with active communities, good documentation, and robust tooling can greatly improve the developer experience.

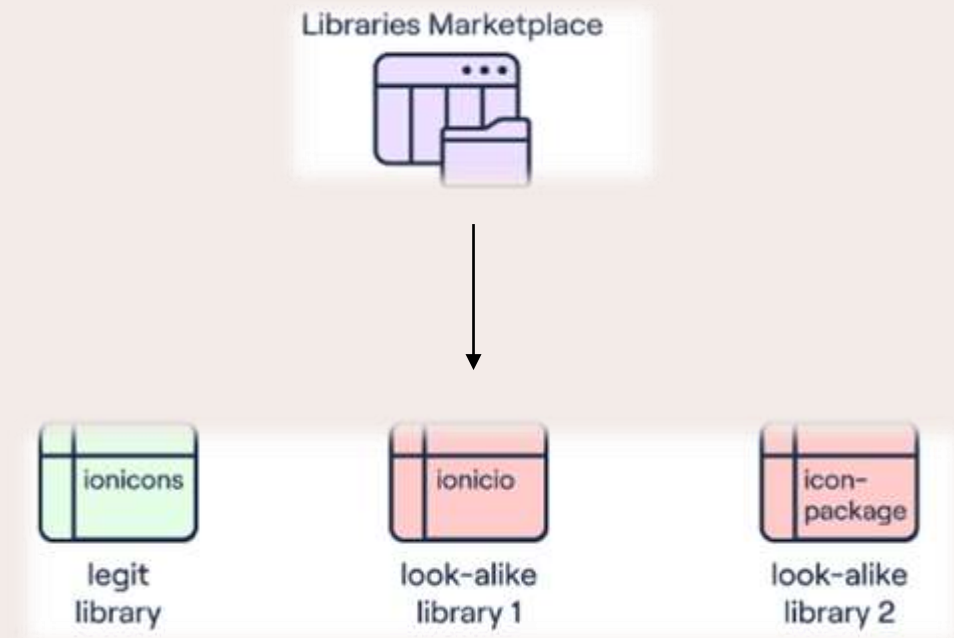


Criteria of Cross-platform App



Third-Party Library Support

- ✓ Assess the availability and quality of third-party libraries and plugins for the cross-platform technology you choose.





Criteria of Cross-platform App



Testability and Debugging

- ✓ Consider the tools and processes available for testing and debugging your cross-platform app.
- ✓ Good tooling can help you catch issues early and ensure a stable, high-quality app across all platforms.

Cost and Time-to-Market

Cross-platform development can potentially reduce development costs and accelerate time-to-market compared to building separate native apps for each platform.



Thank you

REFERENCE:

- ✓ [A Complete Guide to Cross-Platform App Development 2023 \(ongraph.com\)](https://ongraph.com)
- ✓ [Introduction to cross-platform app development - itCraft blog \(itcraftapps.com\)](https://itcraftapps.com)
- ✓ [Introduction to Cross-Platform App Development | AppMaster](#)

