



SNS COLLEGE OF TECHNOLOGY, COIMBATORE –35  
(An Autonomous Institution)  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
(UG&PG)  
19CSB303 and Composing Mobile Apps  
UNIT 1



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### Mobile Apps Development

#### APP Development Approaches:

Three broad approaches:

1. Native
2. Web
3. Hybrid

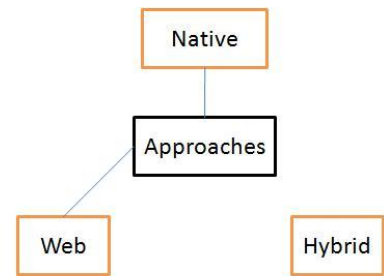


Figure: Mobile App Development Approaches

(1) Native Approach:

- native app,
- developed for native platform using platform specific APIs
- distributed through online app stores
- preferred when app requires a native look and feel

(2) Web Approach:

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- mobile web app,
  - developed using web technologies such as HTML5, CSS3, and JavaScript
  - not installed on mobile device, gets rendered in a mobile browser, over the network
  - preferred when app requires to cater to diverse devices using a single codebase
  - no native L&F and no high-end device capabilities
- Hybrid Approach:
- mixed approach (features of native + web approaches)
  - developed using mobile cross platforms
  - hybrid platforms do not power device
  - facilitate multiplatform development



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- 
- same codebase of a mobile app translated to fit into any of the supported native platforms

### App development approaches

		
<ul style="list-style-type: none"><li>• Rich user experience</li><li>• Platform specific</li><li>• Proven path for mobile apps</li></ul>	<ul style="list-style-type: none"><li>• App-like experience</li><li>• Leverages device capabilities</li><li>• Multiple platforms</li></ul>	<ul style="list-style-type: none"><li>• Fast development cycles</li><li>• Cross-platform</li><li>• Instant updates</li></ul>
<b>NATIVE</b>	<b>HYBRID</b>	<b>WEB/HTML5</b>



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## App development approaches

