



















	Features of Some New Mobile Handsets				
		iPhone 4	Nokia N9	BlackBerry 9860	Samsung Galaxy SII
	Display (pixels)	640 x 960	480 x 854	480 × 800	480 × 800
	RAM	512 MB	I GB	768 MB	I GB
	Processor	I GHz	I GHz	I.2 GHz	I.2 GHz
	Data	GPRS, EDGE, 3G, WLAN, Bluetooth, USB	GPRS, EDGE, 3G, WLAN, Bluetooth, USB	GPRS, EDGE, 3G, WLAN, Bluetooth, USB	GPRS, EDGE, 3G, WLAN, Bluetooth, USB
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- Developers Want to Keep on Adding Features in Devices
- If Not Done Carefully, Add-On Features may Affect User Experience Badly
- Don't Make the Device into Something it was Not Intended to Be.























## Data Security

- Data Security over Network
  Communication Channel is Critical
- How Does Application Interact with Underlying Platform? Can it Delete some Sensitive User Data?





## **Application Testing**

- Depending upon the Type of Application, Testing may Need to be Done in Multiple Situations such as:
  - Availability and Unavailability of Network Signals
  - Availability and Unavailability of Data Services
  - Availability and Unavailability of Location Data









## Mobilize, Don't Miniaturize

- Simple Transformation of a Full-Sized Computer Application to the Mobile Environment almost Always Results in a Suboptimal Mobile Experience.
- Attempting to Construct an Application that Works the Same on Both PC and Mobile Platforms will Most Likely Reduce its Quality in Both Places.





## Conclusion

- It is not Possible to Treat all the Factors Discussed in Previous Slides at Equal Priority when Developing an Application for Mobile Devices.
- Tradeoff is the Only Solution—Decide which Factors are Important and Prioritize Them

