

SNS COLLEGE OF TECHNOLOGY



(An Autonomous Institution)

Re-accredited by NAAC with A+ grade, Accredited by NBA(CSE, IT, ECE, EEE & Mechanical) Approvedy by AICTE, New Delhi, Recognized by UGC, Affiliated to Anna University, Chennai



Department of MCA

Topic: Mobile Platform

Course: Mobile Application Development

Unit: I – Getting started with Mobility

Class / Semester: II MCA / III Semester

Mobile Platforms

- A suite of software tools used for designing, creating and maintaining *mobile* applications
- Also provides testing applications, measuring mobile analytics and creating interfaces for profiling application performance

Mobile enterprise application platform, which provides mobile application tools for businesses



Mobile Platforms

- Operating systems (OS) is stack of programs that manages the computing resources
- A mobile platform is not just an operating system, but a software stack that typically comprises
 - ☐ An operating system, core features are memory management, process management, and various device drivers
 - ☐ Libraries furnish media libraries that provide codecs, libraries for native data storage, libraries for rendering screens and drawing surfaces, and libraries for graphics
 - ☐ Application development framework(s) the set of Application
 Programming Interfaces (APIs) that in turn interact with the underlying libraries, and are exposed to the developers for app development

Application Development

- ☐ Three key aspects driven the mobile application development
 - 1. Business use case that the app is going to mobilize. It can be
 - Business-to-consumer (B2C)
 - Business-to-Employee(B2E)
 - Business to Business (B2B)
 - 2. Business-Profile of the user who is going to use the app
 - 3. Device that plays app

Application Development

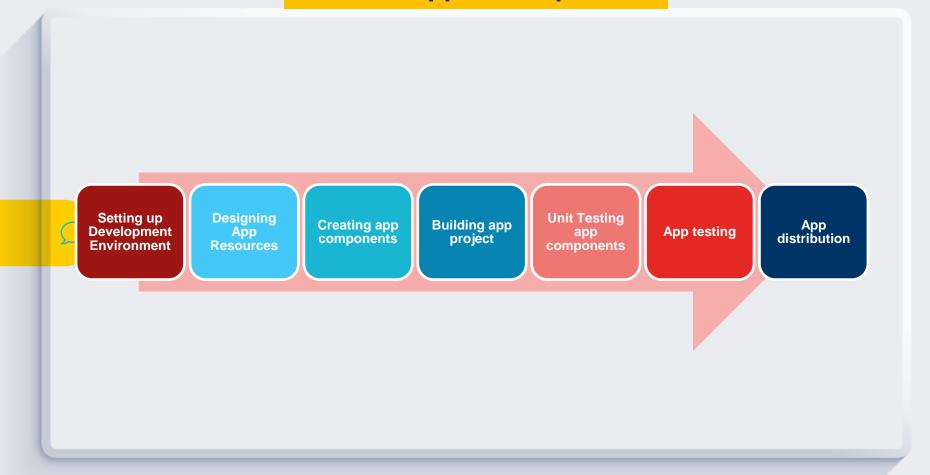
- ☐ These 3 factors determine the app development requirements with respect to
 - user experience
 - device diversity
 - offline capabilities
 - security, backend integration,
 - app life cycle management, etc

Criteria for Mobile Platform

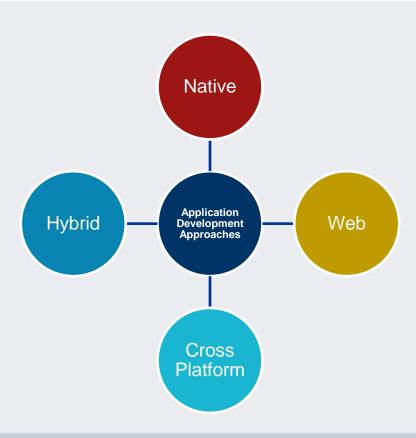
- ☐ Multi-platform and multi-channel capability
- ☐ Support for Agile programming
- □ Security
- ☐ Open standards
- ☐ Governance
- ☐ Support for future



Mobile App Development



Criteria for Mobile Platform





References





- Anubhav Pradhan, Anil V Deshpande,
 "Composing Mobile Apps using Android", Wiley Edition, 2014
- https://www3.microstrategy.com/getme dia/3b8a2ee7-7629-4da4-9d1bf02bd129a051/mobility-landscapemicrostrategy.pdf



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Mobile App Development



- Structure
- Simplicity
- Visibility
- Feedback
- Tolerance
- Reuse

2. Mobile App Design Process

- Notifications
- Home Screen
- Tracking Progress
- Viewing a Lesson
- Viewing a Word

3. How Do We Build It?

- Sketching Our App
- Onboarding

4. Testing Your Designs

 Determine Layout With Boxes

5. Designing a Mobile App

Mobile App Development

- A mobile app wireframe is a 2D sketch that serves as a visual guide and illustrates how an application will work
- App owner and development team can use a wireframe to agree and clarify the entire project's direction and scope
- A wireframe doesn't represent the full design of the app, but only the key screens and interface elements
- ☐ Most wireframes make use of grayscale only
- ☐ Wireframe Helps You Understand Your App Better
- ☐ It Keeps the Development Process User-Centric



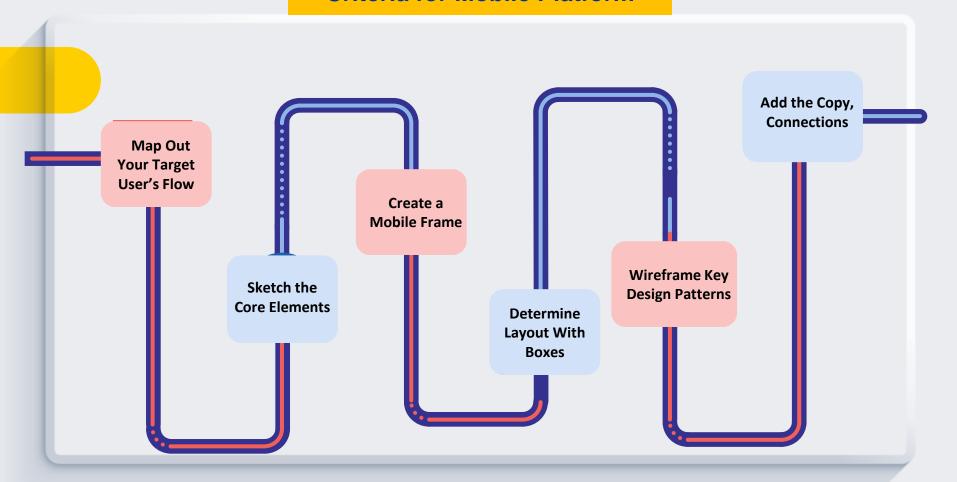
Grey Design



Principles

- User focused and color psychology
- Consistency
- ☐ Minimize input
- ☐ Fast loading
- ☐ Predictable Navigation
- ☐ Do app design for humans

Criteria for Mobile Platform





References





- Anubhav Pradhan, Anil V Deshpande,
 "Composing Mobile Apps using Android", Wiley Edition, 2014
- https://www3.microstrategy.com/getme dia/3b8a2ee7-7629-4da4-9d1b-f02bd129a051/mobility-landscape-microstrategy.pdf