Mobile Platforms and Applications

UNIT 5 RAJASEKARAN AP/IT

Overview

- Mobile Device Operating Systems
- Special Constraints & Requirements
- Commercial Mobile Operating Systems
- Software Development Kit
 - > iOS, Android
 - ➤ BlackBerry, Windows Phone
- M-Commerce
 - Structure
 - Pros & Cons.
- Mobile Payment System
- Security Issues.

Mobile Device Operating Systems

- Grown user needs and technology plays vital role in a development of internet and depended systems.
- Smartphones are essential requirement that is targeted to every user must have access to daytoday things in technology.
- Two types of phones
 - > Feature phone
 - > Smart phone
- Smartphone requires an operating system and it must have some responsibilities too.

Operating System Responsibilities

Managing Resources

- Efficient use of resources and devices by multiple tasking.
- ➤ OS must manage multiple devices.
 - Processor, RAM, Storage, Camera, Speaker, Keyboard and Screen.
- OS must run multiple applications at a same time that applications contains multiple threads.

Providing Different Interface

- OS must able to handle Interactive interface as well network interface.
- > Must able communicate with mobile network at the same time it must interact with user too.

Mobile Operating System

- OS must have 2 parts Kernel and Shell.
- Kernel is core that actually interacts with hardware.
- Kernel Types:
 - ➤ Monolithic Kernel.
 - > Microkernel.
- Two mode of Operations
 - Kernel Mode.
 - ➤ User Mode.

Monolithic Kernel



