Operating System Review
Android Introduction

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1   Chapter Objecttives

Review the knowledge of operating system and introduce the basic concept of android

2   Operating System

1. Description

   - Software between Hardware System and Application Software that controls hardware and manages software
   - Resources management
   - Protect hardware and facilitate software developers.

2. Example

   - OS organizes data on the disk
   - Kernel module is a small part to communicate with CPU, RAM and I/O

3   Android

1. Description

   - Operating System for Mobile , not a device
   - Linux Distribution and Java
   - Requirement: OOP, Java, Networking, Data representation

2. Details and Examples

   - Package: set of classes

- Inheritance: parent and children
- Method overriding
- Polymorphism: allow children to modify, to do more things than parent
- Interface: a class implement an interface
- Casting: cast a type to another type
- Exception: handling error
- Asynchronous programming: do not have to wait (response from server for example)
- Separation of UI and functionality (functions not depend on UI)
  e.g: HTML/CSS (view) for presentation, UI design; JavaScript/PHP (controller) for functionality.
- Client-server model: client sends request to server and server performs back to client.