

# MOBILE APPLICATION DEVELOPMENT

## UNIT - I

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J2ME OVERVIEW: JAVA2 Micro Edition and the world of Java, Inside J2ME, J2ME and wireless Devices, What J2ME is not other platforms.

Small Computing Technology: wireless Technology, Radio Data Networks, Microwave Technology, Mobile Radio Networks, Messaging, personal Digital Assistants.

J2ME - J2ME is a family of specifications that defines various downsized versions of the standard Java 2 platform, these downsized versions of can be used to program consumer electronic devices ranging from cell phones to highly capable personal Digital Assistants (PDAs), smartphones, and set-top boxes.

Java2 Micro Edition and the world of Java  
Java is a programming Language developed by

Sun Microsystems  
Required a virtual Machine to interpret the source codes and generated bytecode.

Syntax is similar to C++. It is platform independent.

Java includes three different editions

J2SE - Java 2 Standard Edition

J2EE - Java 2 Enterprise Edition

J2ME - Java 2 Micro Edition

The above three editions target for different devices or systems.

J2SE - provides a complete environment for applications development on desktop and servers.

J2EE - (Server Based Applications)

Target for business use.

Large scale of systems which may contain tens of servers and millions of users. It is used for web based services. Machines are of high performance.

J2ME (For Handheld and embedded devices)

The Micro Edition of the Java 2 platform provides an application environment that specifically addresses the needs of commodities in the vast and rapidly growing consumer and embedded space, including mobile phones, pagers, PDA's, set-top boxes, and vehicle telematics systems.

J2ME is designed for designing applications for small computing devices.

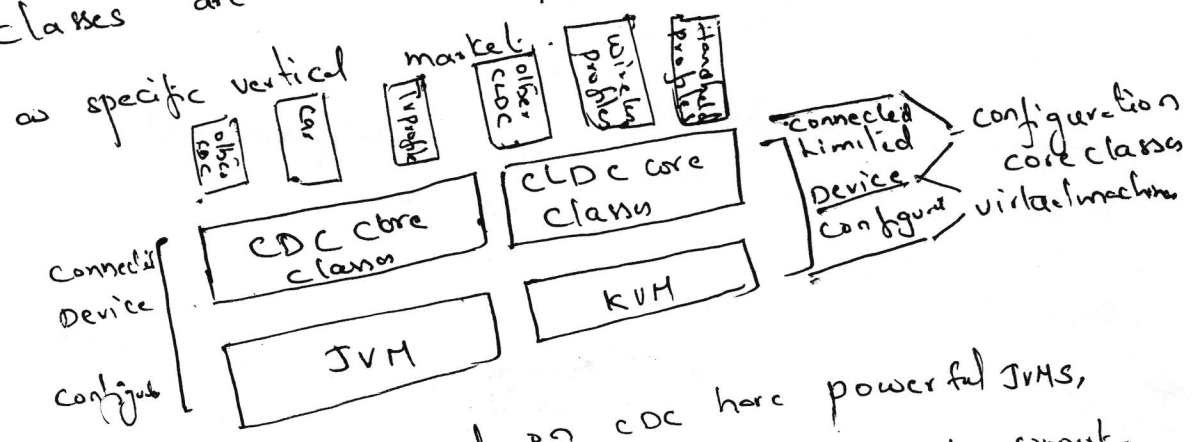
Organization of J2ME : J2ME is organized

- by two categories
- 1) configuration and
  - 2) profile

Configuration : configuration is defined as a complete Java runtime environment. It consists of set of core Java run time classes and interface to the underlying system. J2ME supports two basic configurations -

- 1) connected Device configuration
- 2) connected limited Device configuration

Profile : A collection of Java classes selected from one or more Java core, extension or vertical APIs. classes are chosen to provide a complete solution for



Hardware which based on CDC have powerful JVMs, and hardware which base on CLDC have KVM to support.