

28.07.2011



Campus Wi Fi

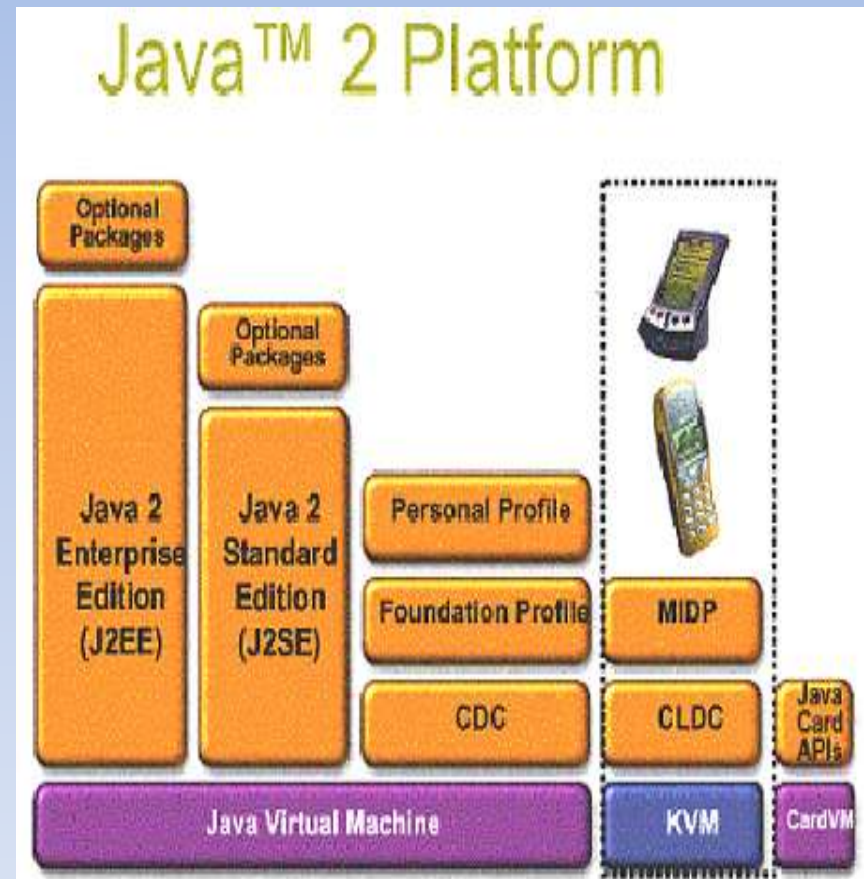


Objectives

- Service provider for Students .
- Real time alerts & Updates on mobile phones within the campus.
- Chat Facility “Post Request.”
- Documents sharing.

Why Java for Mobile Application

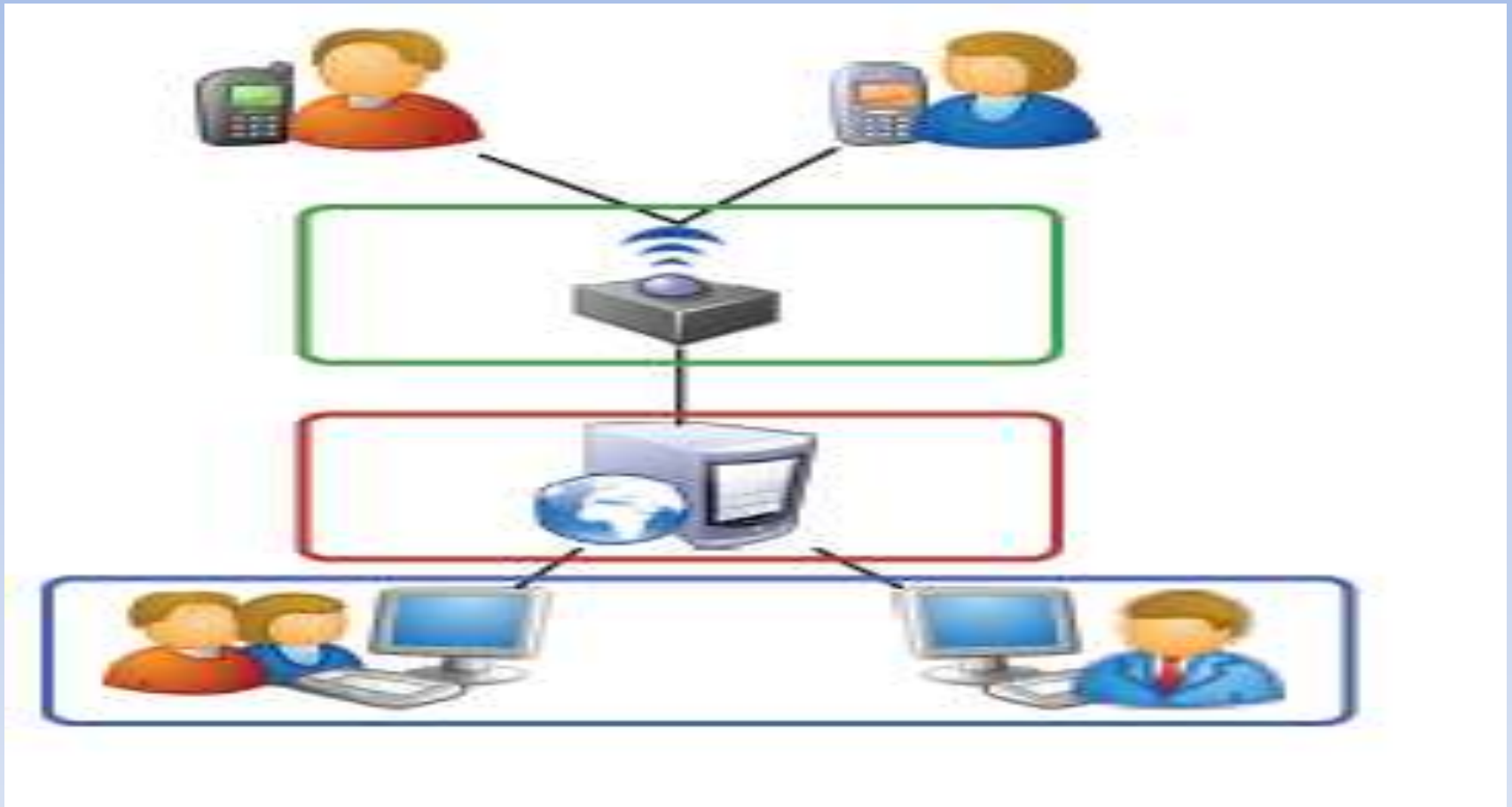
- Cross platform
- Robust
- Secure
- Object Oriented



Proposed System

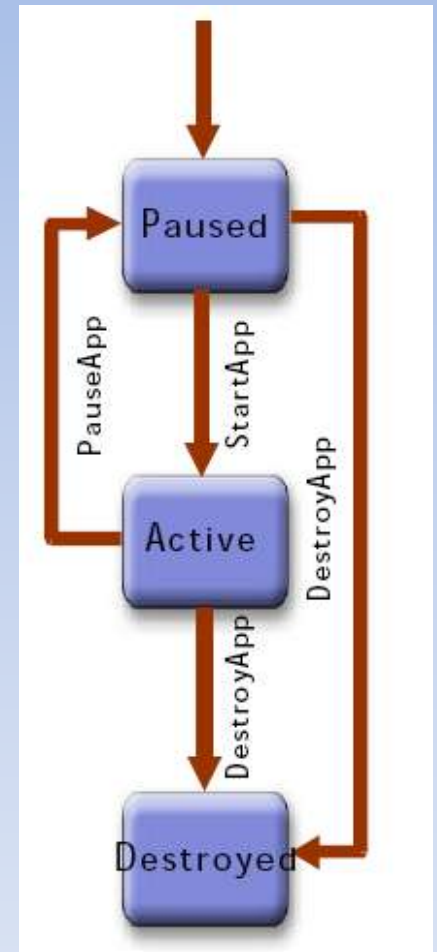
- Defined a Semantic Mobile Environment.
- In such an Environment ,so called service nodes are installed at chosen point of interest.
- These service nodes broadcast messages to nearby mobile users Using Wi-Fi technology.

System Architecture



Java ME Midlets

- MIDP application are known as MIDlet
- Midlets are executed by device-specific Application Security Manager (ASM)
- ASM defines security restrictions for each MIDlet
- ASM can interrupt MIDlet
- Midlets move from state to state in the lifecycle



Achievements So Far

- Establishing Connection between Admin and Mobile User
- Sending Messages From Admin to Student
- Student able to reply from mobile device“Post Request”

Admin Browser



Sending Message By Admin

The image shows a web browser window with a URL ending in 'addMessage.jsp'. The page has a navigation bar with 'MANAGE MESSAGE', 'MANAGE STUDENT POST', 'MANAGE RESOURCES', and 'LOGOUT'. Below this is a 'Post Message' form with the following fields:

Message Type	--TYPE1--
Student	--ALL--
Message	Hello, Just want to inform you all. Timing for tomorrow Lecture of Object Oriented Programming is changed and new Timing is 1 pm to 2pm Wednesday.
<input type="button" value="ADD"/> <input type="button" value="CANCEL"/>	

Overlaid on the left is a mobile phone emulator for a 'DefaultColorPhone' with the 'Sun Microsystems' logo. The phone screen displays 'Welcome to Campus WIFI System' and 'Inbox (0 / 4)'. The phone's keypad and navigation buttons are visible at the bottom.

Message Received in Mobile Device

The image shows a desktop environment with a web browser window and a mobile device emulator. The browser window displays a message record table with the following data:

Message	Message Post Date
Just want to inform you all. Timing for tomorrow Lecture of Computer Games Technology is changed and new Timing is 11 am to 12pm Wednesday.	27-Jul-2011
This is demo for sending messgae	22-Jul-2011
This is a second message	21-Jul-2011
Hi all i am Mahesh	21-Jul-2011
o, Just want to inform you all. Timing for tomorrow Lecture of Object Oriented Programming is changed and new Timing is 1 pm to 2pm Wednesday.	2011-07-27

The mobile device emulator on the left shows a 'BroadCast Message' with the text: 'Hello, Just want to inform you all. Timing for tomorrow Lecture of Object Oriented Programming is changed and new Timing is 1 pm to 2pm Wednesday.'

Post Request

The image shows a mobile phone on the left and a web browser on the right. The phone screen displays a 'Post Detail' with a student's question and an administrator's reply. The browser shows a 'Reply Post By Student' form with fields for Posting Type, Student Name, and Communication, along with 'ADD' and 'CANCEL' buttons.

Mobile Phone Screen:

Post Detail

chintan : Hi, i want to know about the university gym charges..

ADMIN : We have a package annual deal only which is 40 GBP per Semester

Web Browser Screen:

sting/update/updatePost.jsp?postid=POST_2

ITS | MANAGE MESSAGE | MANAGE STUDENT POST | MANAGE RESOURCES | LOGOUT

Reply Post By Student

Posting Type	ADMIN
Student Name	CHINTAN PAREKH
Communication	chintan : Hi, i want to know about the university gym charges. ADMIN : We have a package annual deal only which is 40 GBP per Semester
Administrator Reply	

ADD CANCEL

Windows taskbar: start, Java - Campus/src..., Campus WIFI - Go..., +5550000 - Defau..., Microsoft PowerPo..., New Microsoft Offi..., 6:32 PM

Questions



References

- <http://developers.sun.com/mobility/getstart/>
- <http://www.slideshare.net/mobiledevelopmentindia/java-me-mobile-application-development-5189885>
- Pagani, M. 2004. “Determinants of Adoption of Third Generation Mobile Multimedia Services”. Journal of Interactive Marketing, Vol. 18, no. 3, pp. 46-59.
- Jarvenpaa, S.L., K.R. Lang, Y. Takeda & V. Tuunainen. 2003. “Mobile Commerce at Crossroads”. Communications of the ACM. Vol. 26, no. 12, pp. 41- 44.