

This week, I made some general research about the following subjects:

- Mobile Application Development Platforms
  - Symbian
  - J2ME,
  - Palm OS
  - iPhone (SDK) etc.
- Major Possible Problems about the Application
  - Speed
  - Data Access
  - User Interface
  - Security Issues
  - Connection (Bluetooth and GPRS) etc.

Among the available platforms, J2ME (Java 2, Micro Edition) would most probably be our choice thanks to the portability offered for vertical applications such as ours. Symbian seems to be its biggest competitor with its wide range of use.

The most concerning problem seems to be about the connection. My prediction depends on two points:

- 1- Our experience and knowledge about optimizing an application to run faster and handling problems about data and user interfaces.
- 2- Our unfamiliarity to the mobile world and BT, GPRS connections

The second major problem would be about security (if we need it). As far as I learned, J2ME does not support any security algorithms by default, in other words there is no inbuilt security technology in most recent mobile devices because of the low CPU and memory available on the device. If we need any security, we have to develop our own algorithms and implement them for securing data transfer between server and the client.