Mobile Google - Mobile web search

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March 21, 2007
Background

"The mobile phone becomes a full member of the web"

Imagine millions of accessible web servers running in millions of mobile phones.
Overview of the system
Challenges - How to search for data?

Major concerns identified:

- Availability - Mobile phones can run out of battery; can be switched off
- Scalability - The system has to perform well with an elevated number of devices
- Efficiency/Performance - Battery consumption; Efficient search
- Website context - Changes constantly and may affect the content
Purpose of this work

- I am going to work on this problem for 5 months
- Study how to solve the problem presented and implement a prototype
- Currently I am studying different architectural Models for the system
Index architecture

- Document-Distributed Architectures.
- Term-Distributed Architectures.
- Mobile Apache - a ported version of Apache to Symbian
- Mod_Python - an Apache module that integrates the Python programming language into the Apache server
Possible future work

- To run tests in order to build a model
- Evaluate the model precision
- Use the model to improve the system