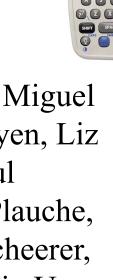
Application Development and Business Planning for the Motorola Timeport



Wireless Device

Presented April 27, 2001

By:

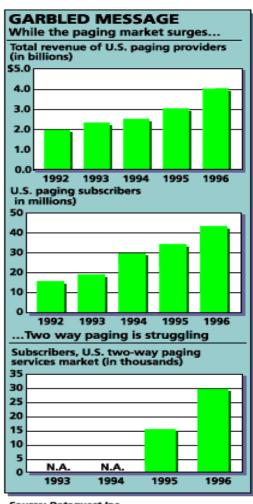


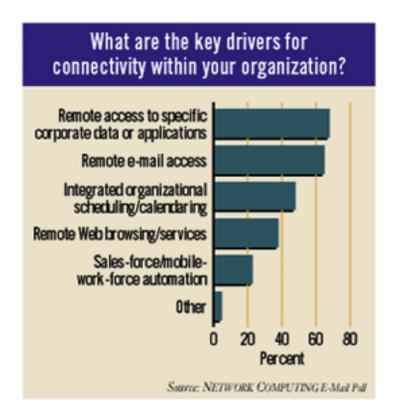
Kostadin Chikov, Farhan Chowdhury, Miguel Comparan, Brent Lagesse, James Nguyen, Liz Nguyen, Mulyadi Oey, John Paul Pagcatipunan, Gregory Pawlik, Alec Plauche, Andrew Prost, Aman Sareen, Steve Scheerer, Joshua Schultz, Sara Swiderski, Erwin Uy

Background - 1

- The world is becoming increasingly more reliant on wireless communications.
- People are striving for ways to efficiently and effectively collaborate and communicate with each other.

Wireless Communication Trends





Source: Dataquest Inc.

Motorola Timeport - 1

- The Motorola Timeport is a two-way messaging/paging device.
- Communications features include voice mail, e-mail, paging, and short 2-way messaging.
- Applications include calendar and games, and other applications for various purposes can easily be downloaded to the device.

Motorola Timeport - 2



Project Goals

- To determine how to best market the Motorola Timeport two-way messaging device to universities as a tool for students, faculty, and staff.
- To develop applications that would be useful for the university environment.

Approach

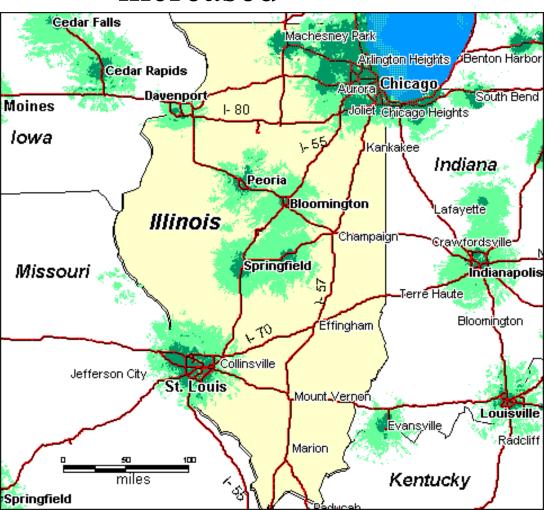
- Divided into 4 teams, each of which focused on a different aspect of the project.
 - Needs and Features Analysis Team
 - Device Comparison Team
 - Software Development Team
 - Usability Testing Team

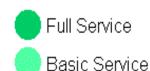
Needs and Features Analysis Team

- Goal To determine various features that would be necessary to market the Timeport as a tool for university students.
- General device features determined to be necessary include:
 - Make the device cheaper
 - A user manual included with the device

Device Needs - 1

• The device's coverage area should be increased





Device Needs - 2

• The device needs a new navigation method



Device Needs - 3

- Software applications determined to be useful for the device include:
 - An application to query a university's master calendar
 - An application to query a university's phone listing
 - Web browsing software

Device Comparison Team

Goals: - To examine the features of various wireless devices including pagers, cellular phones, and personal digital assistants.

-To determine which devices are best suited for university



Pagers



-Short text messaging; SMS

-alpha-numeric data

-PIM functions:

Calendar, Tasks-List, Memos



Device Features



The Ideal device would take on the necessary aspects of all devices





-Voice capability

-real time communication

-Email

-Web Query

-HTML browser



Internet Features



Device comparisons

		Motorola V. Series V100		RIM
	Motorola's	Personal Interactive	Motorola's	(Research In
Pagers	Accompli 009	Communicator	Timeport	Motion) Pager
Voice Capability	yes	yes	no	no
Calendar	yes	yes	yes	yes
SMS	yes	yes	no	no
Short Text Mgs.	yes	yes	yes	yes
Email Access	yes	yes	yes	yes
Web Query	yes	yes	no	yes
HTML Browser	no	no	no	yes
Color Display	yes	no	no	no
Available Currently	no	no	yes	yes
		· · · · · · · · · · · · · · · · · · ·		

PDA's	Handspring Visor Prism	Palm VIIx	Sony Clie	Microsoft Pocket PC
Voice Capability	yes*	no	no	no
Calendar	yes	yes	yes	yes
SMS	no	no	no	no
Short Text Mgs.	no	no	no	no
Email Access	yes*	yes	no	yes**
Web Query	yes*	yes	no	yes**
HTML Browser	yes*	yes	no	yes**
Color Display	yes	no	no	yes
Available Currently	yes	yes	yes	yes

^{*} w/ visor phone or modem

^{**}requires phone and CompactFlash modem

			W Visci piloi		requires priorie
Cell Phones	Ericsson R380	Ericsson A2628s	Motorola's V. Series™ V8162 Phone	Samsung Uproar	Samsung Stinger (expected release later this year)
Voice Capability	yes	yes	yes	yes	yes
Calendar	yes	no	no	yes	yes
SMS	yes	yes	yes	yes	yes
Short Text Mgs.	no	no	no	no	no
Email Access	yes	yes	yes	yes	yes
Web Query	yes	yes	yes	yes	yes
HTML Browser	no	no	no	no	yes
Color Display	no	no	no	no	yes
Available Currently	yes	yes	yes	yes	no

Ericsson R380



-possesses most of our defined features

-lacks an HTML browser and color display

Motorola Timeport

P935 Accompli 009



Timeport offers a few key features which make it an ideal device for the university student:

- -Simple interface using a QWERTY keypad for quick messaging
- -Software development kit allowing for user-defined applications

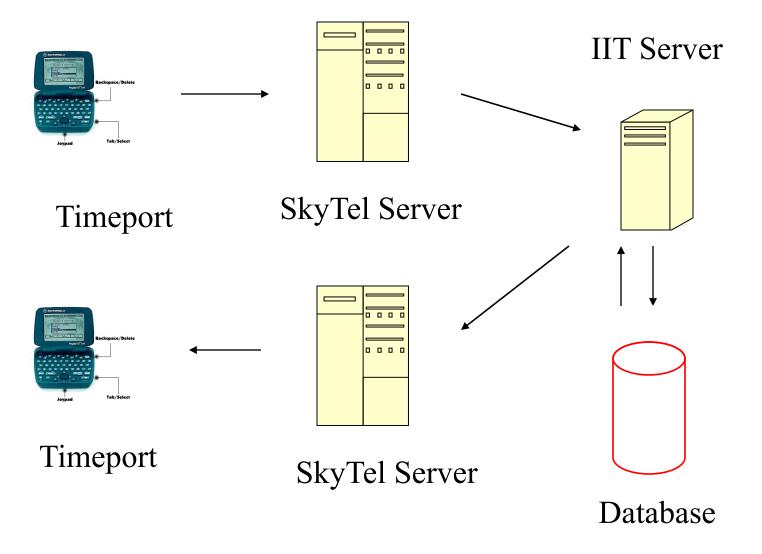
Software Development Team

• Goal – Implementing software applications for the Timeport determined by the Needs and Features Analysis Team to be valuable for university students.

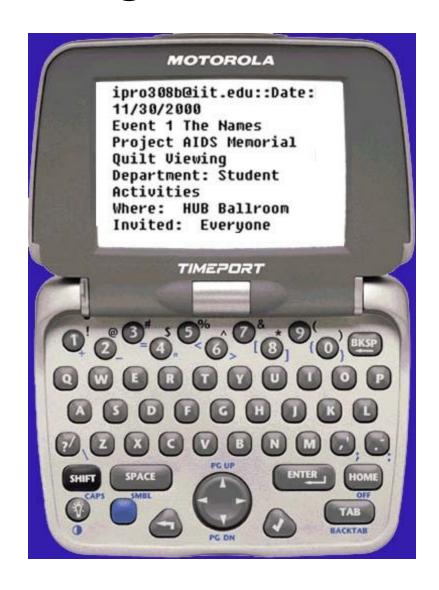
Calendar Query Application -User Requests A Query

The same of the sa
MOTOROLA
CALENDAR QUERY
Month 4 11
Day 4 30 F
Year 4 2000 ▶ Send
Illinois Institute of Technology
Send Query
TIMEPORT
6! @3" s 5% s 0" * 0"
Q'2 3 4 5 6 0 0 0 0 0 0
QWERTYUIOP
ASDFGHIKL
7.ZXCVBNMP.
SHIFT SPACE PG UP ENTER HOME
CAP'S SMBL OFF
D PG DN EACKTAIL
Po Dri

Message Being Processed



Message is Received



Usability Testing Team

- Goal To conduct usability testing on the Timeport device and the software applications developed for it by the Software Development Team.
- Procedure and Methods for Testing
- Results and Recommendations

Business Plan Team

 Goal – To develop a business plan for Motorola and Skytel for marketing the Timeport device to universities as a tool for students, faculty, and staff, using the findings of the IPRO team.

Business Plan - Analysis

- Cellular Phones are typically superior wireless devices
- Universities contain untapped potential for consumers and providers
- Timeport can be adapted to tap into this potential

Business Plan - Solutions

- Start by advertising the "wired campus" to small schools, then increase in size
- Attract both faculty and students to use the Timeport
- Train students to operate a help desk
- This will open doors for further technological integration in universities