WELCOME TO THE SEMINAR

ON

"Simputer Technology "

by

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Simputer: Not for the common man anymore

CONTENTS:

INTRODUCTION

➤ The simputer is a low cost portable alternative to pcs.

➤ It has a special role in third world because it ensures that illiteracy is no longer a barrier to handling a computer.

HISTORY

✓ The invention of simputer was announced in 2001.

✓ Simputer inventors professors at Bangalores Indian Institute of Science formed PicoPeta Simputers Pvt. Ltd.

✓ It uses Microsoft's Windows XP operating system.

✓ Other computers are weighed several kilos, but Simputer fit snugly your shirt pocket and your wallet

✓ For the first time in history, a computer was designed in the third world, to be used by people in all worlds.

✓ We have now Amida Simputer { A commercial-strength Simputer}

What Is Simputer?

- A Simputer is a multilingual, mass access, low cost, portable alternative to PC's by which the benefits of IT can reach the common man.

- It has a special role in the third world because it is ensures that illiteracy is no longer barrier in handling a computer.

- The key to bridging the digital divide is to have shared devices that permit truly simple and natural users interfaces based on sight, touch and studio.

- The Simputer meets these demands through a browser for the Information Markup Language (IML).

- IML has been created to provide a uniform experience to users to allow rapid development of solutions on any platform

What are the Needs?

- **I want to reserve a train ticket to Mumbai.**
  -Use the Simputer to submit a reservation form

- **Can I meet the Tashildar today?**
  - It seems that I can use my Simputer to check his availability. I don't have to trek two miles to find out.

- **Dear Postman, can I withdraw Rs 100 from my account?**
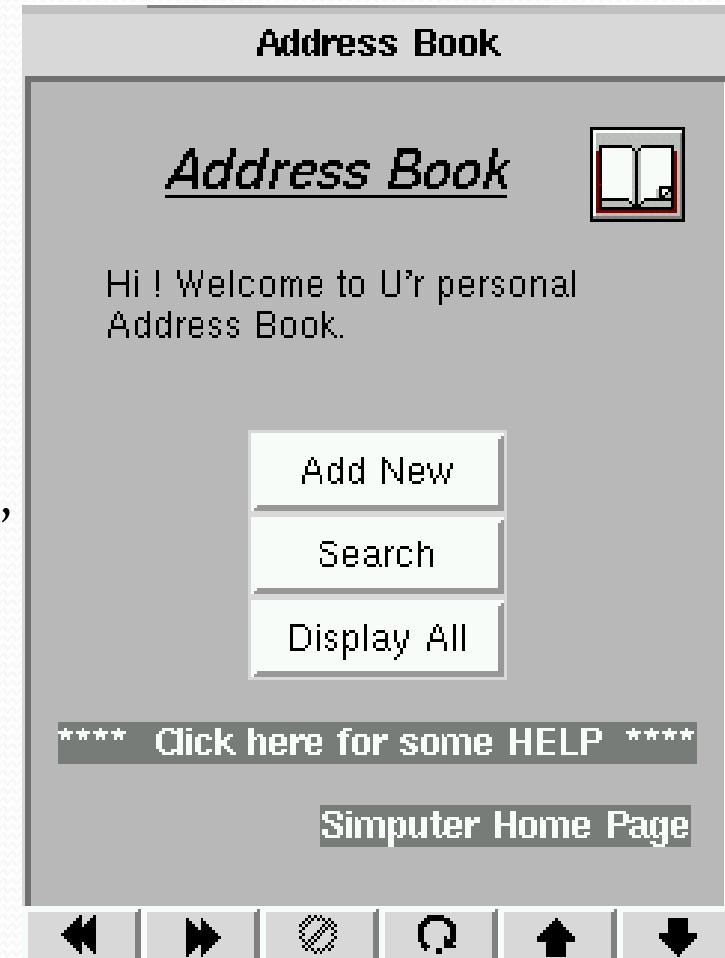 **-**Here is my smart card.

Needs ... 2

- **EDUCATION / LITERACY :**

-Simputer's high-resolution display facilitates images, local-language text. Combined with audio files and text-to-speech in local languages, this will facilitate literacy, self-learning .

-Digital Library.

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Needs ... 3

- **MICRO-BANKING :**

  -Use the Simputer to take banking to the individual's doorstep, not the other way around. On-the-spot receipts electronically generated.

- **RURAL HEALTH STATISTICS :**

  -State Health Depatments can empower their health workers with Simputers for collection of health statistics in the villages, regardless of location.
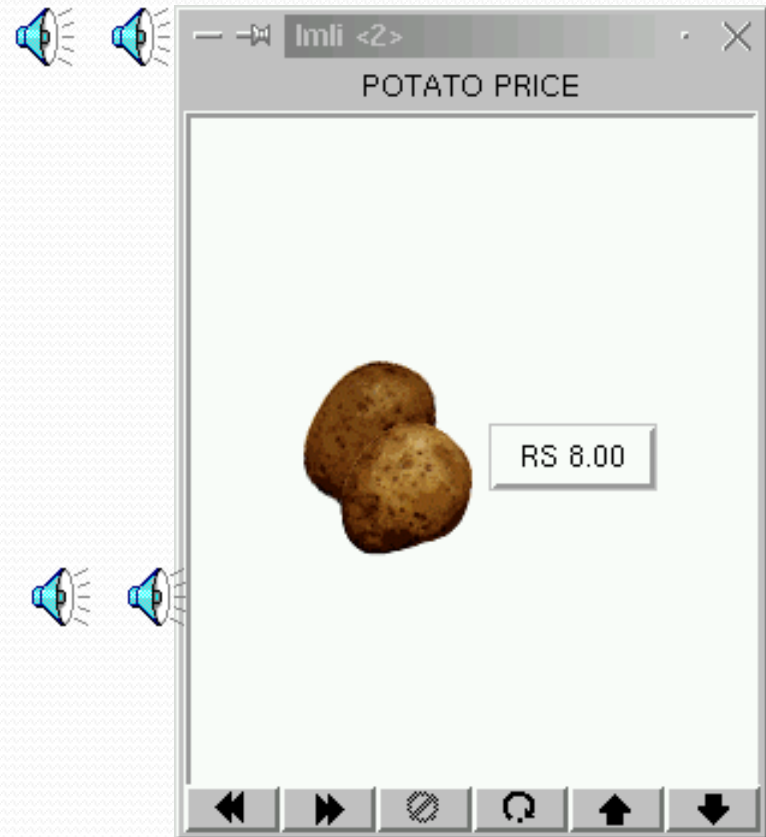
Needs ... 4

- **HEALTH :**
    - -Foetal Monitoring
    - -Portable Ultrasound
    - -Telemedicine
- **DRINKING WATER :**

    -Simputer with appropriate sensor interfaces can facilitate quality checks

Overcoming Limitations:

•**At what price should I sell potatoes today?**

Connect Simputer to the telephone and find out.

What Makes Simputer Different From Regular PCs?

- Simputer is not a personal computer.

- It could however be a pocket computer.

- It is much more powerful than a Palm, with screen size 320 x 240)touch screen,uUSB keyboard and memory capability (64MB RAM).

- The Wintel (Windows + Intel) architecture of the de facto standard PC is quite unsuitable for deployment on the low cost mass market. The entry barrier due to software licensing is just too high.

- While the Wintel PC provides a de facto level f standardization, it is not an open architecture.

- The Simputer mean while is centered around Linux which is freely available, open and modular
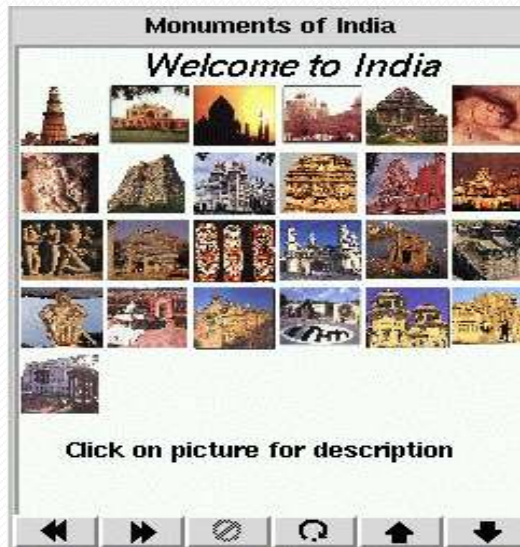
FEATURES

Internet :

      -Internet Browser

      -Email

      -Headlines

PLAY:

      -MP3 Music Player

      -Photo Album

      -Games

      -E-Library

      -Education

Monuments of India
Welcome to India
Click on picture for description

Mail Reader
Hi ! You can read your mails, but can't send out mail yet!

Server	orange.csa.iisc.ernet.
Userid	rishi
Passwd	*********

Get some help
Click on button for the status of mails
enter

WORk:

-Khatha

-Paper

-Notebook

-Bhasha Notebook

-Voice Recorder

TOOLS:

1 Calendar

2 Panchanga

3 Smart Card

4 Health Manager

5 Conversion Calculator

6 World Clock

7 Stop Clock

8 Address book

9 Calculator

10 Network

Specifications of Simputer

- **HARDWARE**
  - ❖ CPU 32 bit.
  - ❖ 64MB of DRAM.
  - ❖ 24MB flash for permanent storage.
  - ❖ Display I/F 32 x 240 monochrome LCD display pane.l

- **INTERFACES**
  - ❖ Touch panel overlay on LCD Display used with a plastic stylus (pen).
  - ❖ Speaker, Microphone, MIC jacks, Smart card connector.
  - ❖ RJ-II telephone jack .
  - ❖ USB connector.

- **DIMENSIONS**
  - ❖ Approximately 8cm x 13cm x 2cm .
  - ❖ Power supply 3AAA sized batteries.

System Software

❖ Linux kernel(2.4.18 kernel as of july2005)

❖ Alchemy windows manager

Application Software

❖ *Internet Access*

❖ *Music*

❖ *PIM Applications*

ADVANTAGES

- Simputer is a small, cheap device, similar to personal digital assistant (palmtop).
- The Simple to use,perceptual computing
- The radical simplicity of universal access
- Rich in interfaces
- Soft modem
- Smart card
- Infra red data access
- USB port
- Audio
- Designed to be shared(smart card personalizer)
-

APPLICATIONS

- The architecture of the Simputer integrates various devices such as Smart Card reader, a Modem, a Touch Screen, a Multi-lingual Texto-Speech system. This makes Simputer an ideal device for: e-governance

- Smart Card enabled citizen services(Voter IDs, driving license, ration card, etc.)

- Data collection and processing Land and revenue records Education, health care and information access e-mail device

- Micro banking

- A Smart Card pass book Synchronizing transactional details through modem connectivity Interactive multi-lingual transaction log book Human error eliminated, increasing the integrity of the calculations

DISADVANTAGES:

- Data inaccuracy.

- Require Training Of Maintenance Staff.

- Information Overlad.

- Software unreliability.

Future scope:

❑Launch with Prototypes (November 2000)

❑ Manufacture
   o Licensed by the Simputer Trust
   o Open to suggestions

❑ Wireless Simputer
   o IEEE 802•11B / Bluetooth
   o GSM / CDMA

Conclusion

- Simputer holds promise for bringing low cost computing to poor countries.

- Given the high illiteracy rates in developing countries, the devices uses image and sound as primary outputs and touch as its primary input.

- It employs Unicode and so it support multilingual text along with text to speech capabilities.

- Developers said the simputer is somewhere between a personal digital assistant and a PC given its power, storage capacity, display size and smart card based connectivity.

- The production began in March 2001 the final product is available on the market on the end of 2002

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THANK YOU ALL…