Some Other Topics

(just mention other interesting topics; besides many others)
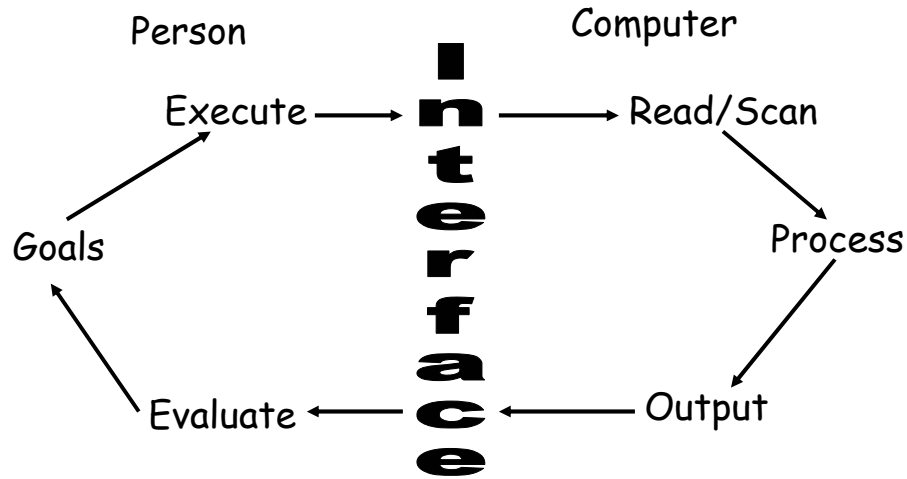

Payment Systems

- Credit card works → restricted liability
  - !!! Never use debit card on the web !!!
- Centralized payment systems
  - PayPal and co
- Electronic Cash
  - Great application of cryptographic systems
  - See for example DigiCash (David Chaum)
  - Micropayment systems possible
- Electronic Checks
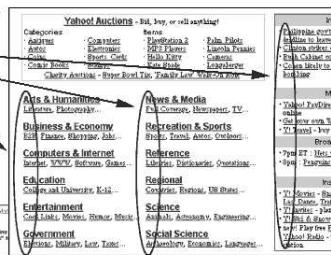- SET (Secure Electronic Transactions)
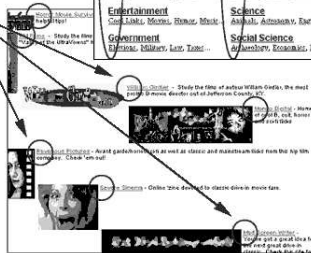
Web Design and Usability: HCI

Person   Computer

Interface

Execute → ... → Read/Scan

Goals

Process

Evaluate ← ... ← Output

3

Jamie Blustein' resources: http://www.cs.dal.ca/~jamie/course/CS/4173/Resources/#UI

… for example: http://www.usability.gov/guidelines/

4

(Ro)bots, agents, spiders, search engines

Program that `travel the web' to gather information

→ Static argents
→ Mobile agents

For example, search engines, web tools such as inactive-link alert, news agents, e-mail harvesting for spamming, …

5

M(obile)-commerce

Global number of mobile phone users

2000	2002/3*	2010*
570 million	1 billion	1.6 billion

Global m-commerce revenues

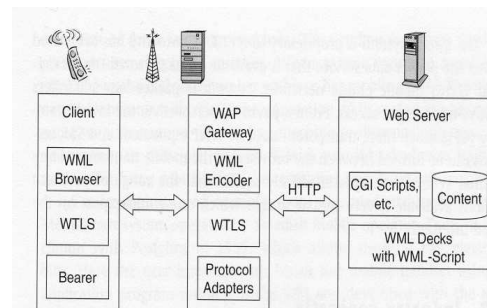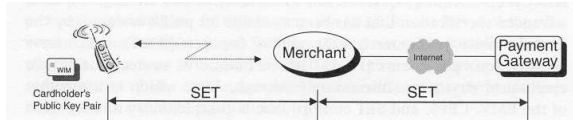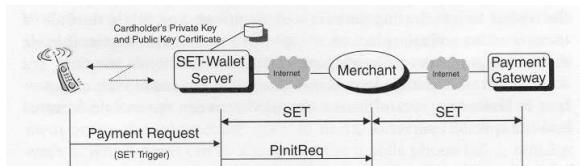| 1999	2003*	201
3 billion	13 billion	270 billion

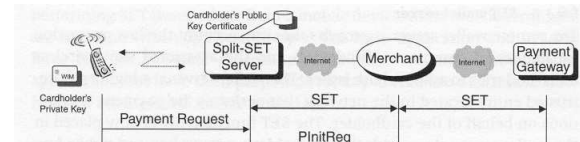Figure 8.1 The WAP architecture.

6

Wireless and SET

Handset-based SET wallet

SET wallet server

Split-SET

7

Smart Card

Card Topology

8
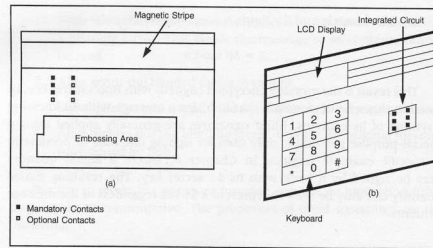
Figure 3.27 (a) Smart card with magnetic stripe, and (b) third-generation super smart card.
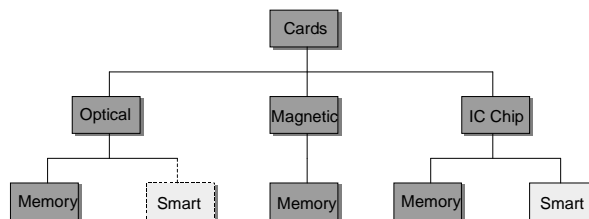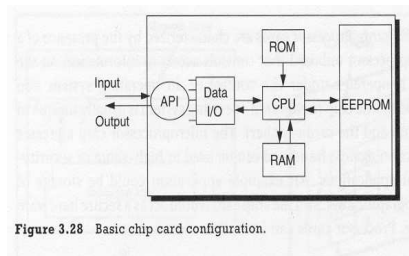
Figure 3.28 Basic chip card configuration.
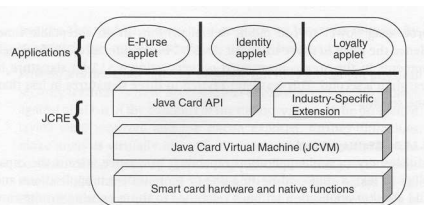
Figure 3.29 Java Card system architecture.

9

Advanced Card Technology
Association of Canada

http://www.scia.org/

CARDTECHNOLOGY.COM
TRACKING THE FUTURE OF CARD SYSTEMS AND APPLICATIONS

(January 2002):

http://www.ct-ctst.com/CT/

"There will be nearly 30 million chip-based credit cards circulating in the United States by the end of the year, up from 17.5 million at the end of 2001"

"... the cost of a Visa smart card dropping from $3.50 two years ago to $1.62 today. He says smart card prices will soon approach the under-50 cent cost of a mag-stripe card, as volumes increase."

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