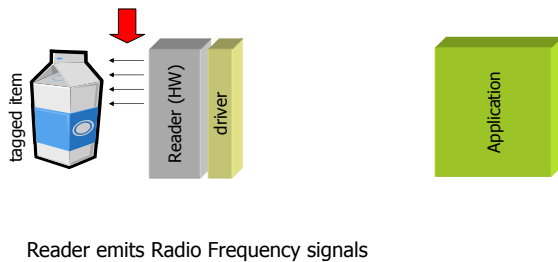


## Practical Activities

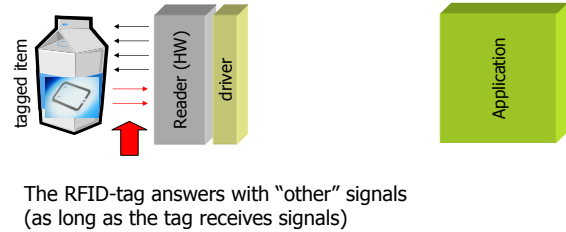
## List of Possible Practical Activities

- AutoID
  - Inventory Manager
  - Assistance
    - Blind People
    - Vegetarians/Athletes
  - EPC-IS
- Inter-Faculty Games
- Infrastructure for Technology Centers
- WebTop – Groupware
- EPG: Electronic Programme Guide

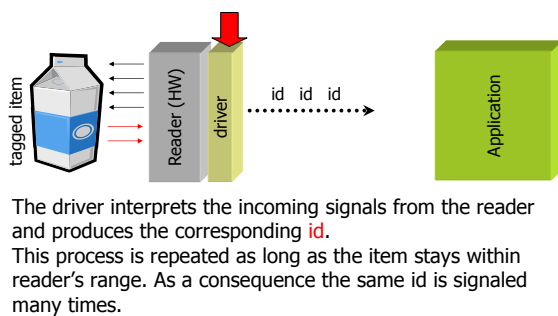
## How does it work? (abstract)



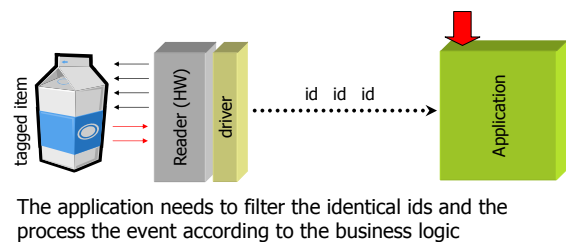
## How does it work? (abstract)



## How does it work? (abstract)



## How does it work? (abstract)



## Inventory Manager

- Receipt definition (XML)
  - Look up
  - Adopt/define
  - How to flatten it into tables?
- Analyze ePC categories
  - Electronics, Food, ...
  - What to show depending on it
    - Electronics: bought when? at? guarantee till?
    - Food: ingredients?, expiration date?
- Activities
  - On incoming receipt, flatten it into rDB
  - On id from reader, lookup on rDB and show:
    - Corresponding data according to categories
- Offer the possibility to write the original id on RFID tag (e.g. return the object)

## Assistance

- Blind People
  - Readout product description
  - Involved Technologies:
    - XML, VoiceXML?
- Vegetarians/Athletes
  - Check if all ingredients:
    - are vegetables
    - do not contain prohibited substances
  - Involved Technologies:
    - XML, XML Databases?, Swing? Laszlo? AJAX?
- Queries on my inventory: Cooking Assistance
  - Based on my inventory suggest what to cook

## EPC Information Service (IS)

- Maintains Item descriptions up-to-date
  - Semi-structured data
  - Static data
    - Physical description, ...
  - Dynamic data
    - Traceable data
    - Location (+date), owner

## AutoID - Some Recommendations

- Java 1.3?
- HSQLDB
  - tiny DBMS, JDBC
  - <http://hsqldb.sourceforge.net/>
- XML DBMS
  - eXist, xindice
- Interface definition
  - Reader and Listener
  - Exception handling
- Data Structure
  - RFIDEvent / TagData
  - XML

## Inter-Faculty Games

- You already know the domain
- Provide a solution
  - It's now only about web pages...
  - Messaging (status of games)
  - How to disseminate status info to interested consumers
    - Different kind of clients?

## Infra. 4 Technology Centers

- Principal Actors
  - Companies
  - Students
  - Graduates
  - Projects
  - Offices
- Your imagination ...
  - Current state of contracts
  - How many people is working
  - Flow of money

## Groupware: Server-side

- Groupware functionality as services
  - Calendar
  - Contacts
  - Projects
- Exposed as services
- Wrap already developed Groupware servers
  - (server-side) Zimbra
  - E-Groupware

## Groupware: Client-side

- Rich User interactions
  - We have seen many examples yesterday
  - You are allowed to "reuse" code from others
  - OpenLaszlo, AJAX
- What about a WebTop (instead of Desktop?)
  - Text editor, notes, cal, email, ...
  - Running on client but with server-side support

## EPG

- Electronic Programme Guide
- Offer a rich interface to select a program (on TV)
  - remember the idea of flight tickets!
  - Richer interaction allowing to select by
    - genre
    - set of channels (favorites, groups:news, ...)
    - time frame
    - repetition?
    - actors, director
    - Year
- Use
  - Internet
  - embedded in SAT receivers

## Admin Review

- Goal
  - Experience with technology
  - Hands-on
    - XML, Messaging, Distri. Objects, J2EE, Web Services, RIA, ...
- Deadline:
  - March/April 2005
- Each group:
  - Running Prototype
  - Documentation
    - Report on design decisions and how it was implemented
    - Preferable in english

## Assistance & Acknowledgements

- These guys will assist you (if they can)
  - Jose Antollini
  - Sebastian Salvucci
  - Alejandro Houspanossian

## Where to find Information?

- Apart from Google...
  - Auto-ID Labs
  - EPCglobal
  - Managing RFID Data, VLDB 2004
  - ACM Queue, Special Issue on RFID, Oct 2004
- Yahoo! Group
  - [groups.yahoo.com/group/tecmmod](http://groups.yahoo.com/group/tecmmod)