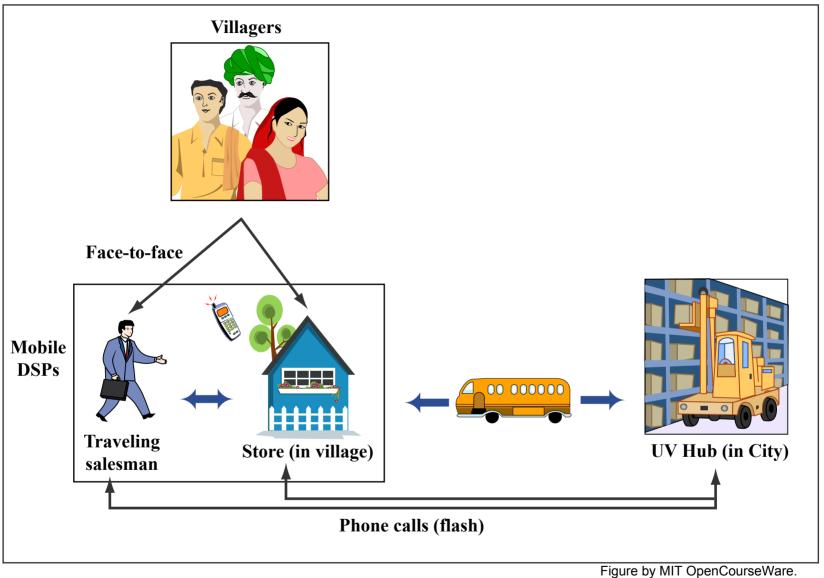
UV M-Commerce Interface System Design

Anastasios Dimas Michael Gordon Anonymous MIT student Dev Sengupta





The Situation







Feedback From United Villages

- We are not targeting the Villagers, we are targeting the shop owners and travelling salesmen
- UV wants a J2ME solution, no more voice phone calls!
 - Version 1, simple
 - Place order
 - Order confirmation/history
 - Version 2, advanced features
 - Registration of customers
 - Payment via pre-paid cards
 - Price negotiations
- UV wants 2 deliverables
 - J2ME solution, Version 0.8
 - Study of effectiveness of solution



Feedback from United Villages

- Piloted an SMS ordering system
 MDSPs willing to absorb cost of SMS
- It failed (call volume did not decrease):
 - Order products not in the catalog
 - Catalog does not have prices
 - Price negotiation
- (Will a J2ME implementation address these problems?)





Changes to the Ordering System

- Add prices to Catalog
- Set policy for volume discounts
- Items numbers more phone-input friendly



Technology Survey

• What type of devices are being used by the Mobile DakNet Service Providers (MDSPs)?

- 20 responses
 - 15 of 20 phones don't support J2ME!
 - 10 of 20 phones don't have color screens!
 - Maximum screen size is 176x200 pixels





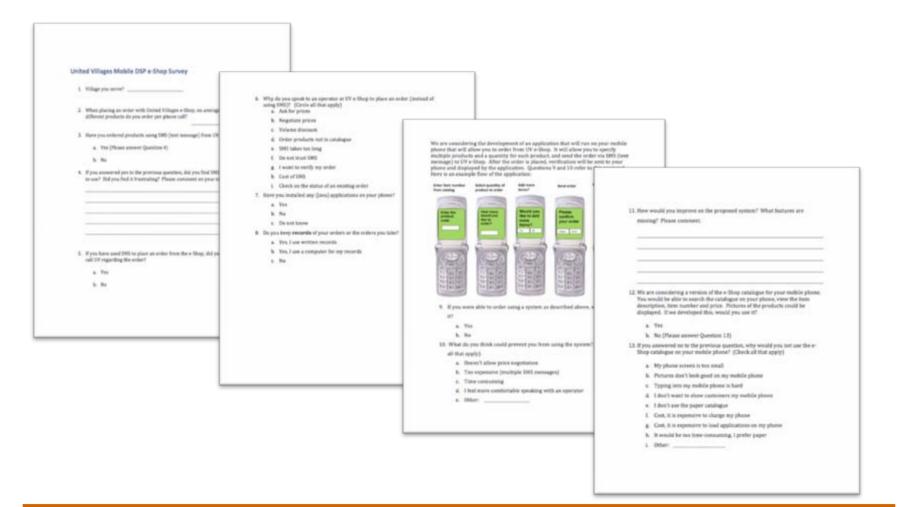
Solution

- Require the MDSPs to have a J2ME-enabled phone
- Currently deciding on suggested phone
 - MIDP 2.0
 - JSR 75 (persistent storage)
 - JSR 205 (Wireless messaging API 2.0)
 - Bluetooth for app install





Needs Assessment







Needs Assessment

- 13 questions
- Questions focus on:
 - Why didn't you use/like the SMS ordering system?
 - Why do you speak with an operator at UV?
 - Would you use an application for ordering from the e-Shop?



Use Cases

- 1. MDSP orders product(s)
 - Searching for product(s)
 - Specifying quantity of each product
 - Receiving confirmation from UV hub
- 2. Check on status of order
- 3. MDSP checks his/her order history
 - Reorders
 - Check his/her profits

Massachusetts Institute of Technology

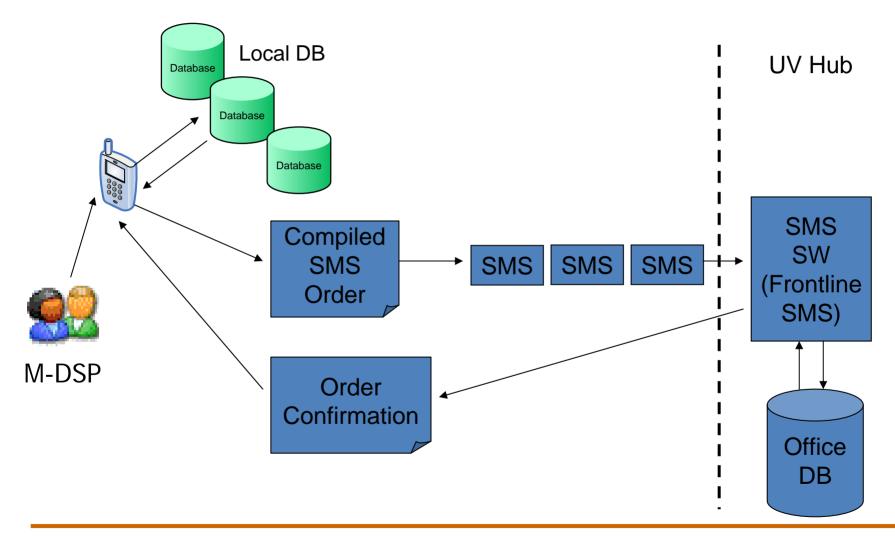


J2ME Proposed Design





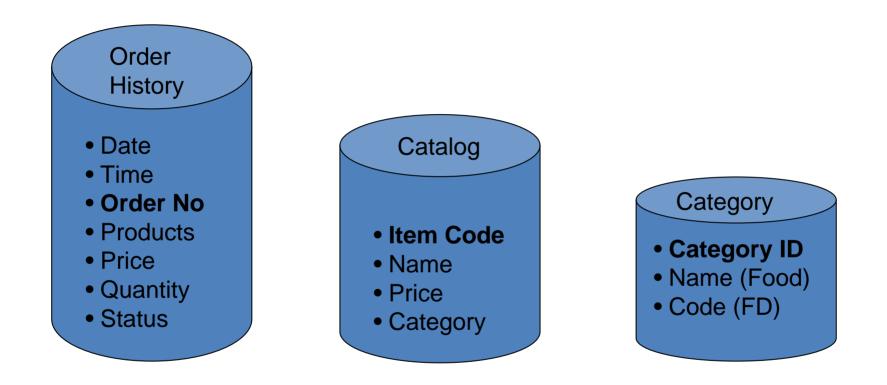
System Diagram







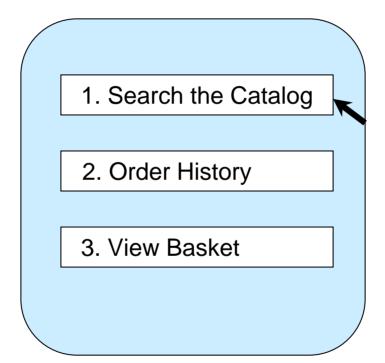
Databases







User Interface Design







Search the Catalog

Menu

	١
Item Code	
Paper Item Name	
Back Search	

Steps (Screens):

- 1. Search by item code, name
- 2. Browse Listings (name, price)
 - Select Item
- 3. Enter Quantity
 - show total price
- 4. Add to Basket





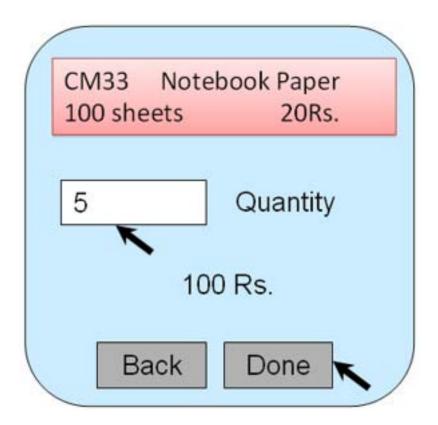
Browse Listings

FM15	Printer Paper 200
sheets	20Rs.
CM33	Notebook Paper
100 she	ets 20Rs.
FM15	Inkjet Paper
Echoot	s 20Rs.





Enter Quantity

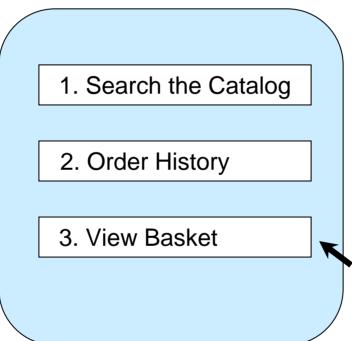






User Interface Design

• Top level Menu

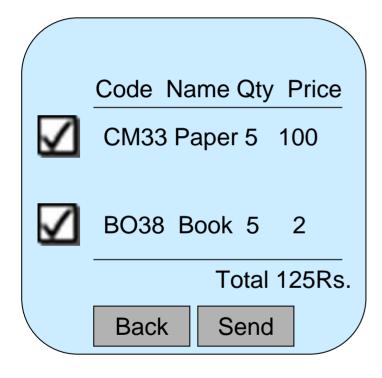






View Basket

Menu



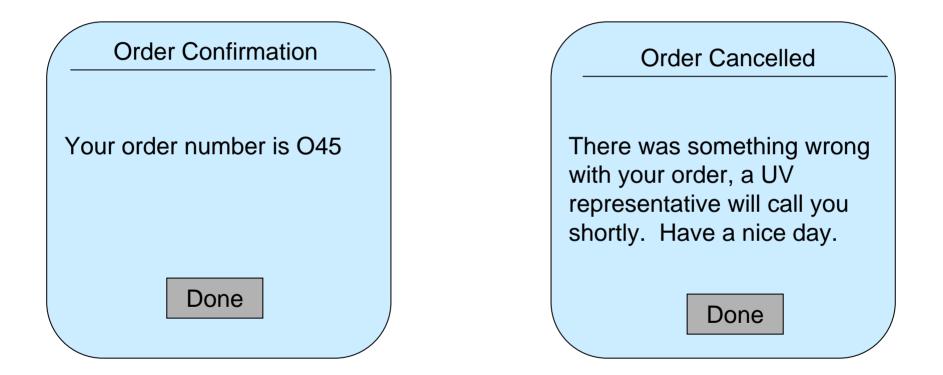
Steps:

- 1. Select/Deselect add/remove
- 2. Check total price
- 3. Send





Order Confirmation

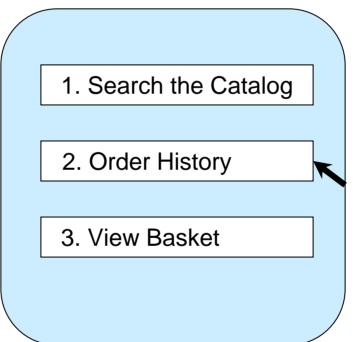






User Interface Design

• Top level Menu

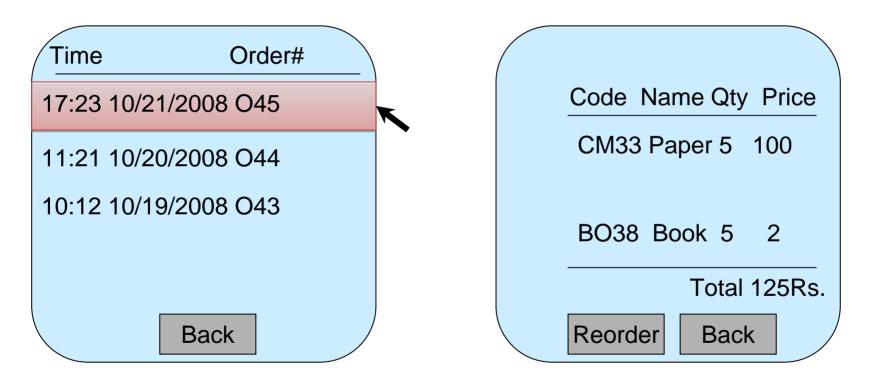






Order History

Menu







MAS.965 / 6.976 / ES.S06 NextLab I: Designing Mobile Technologies for the Next Billion Users Fall 2008

For information about citing these materials or our Terms of Use, visit: http://ocw.mit.edu/terms.