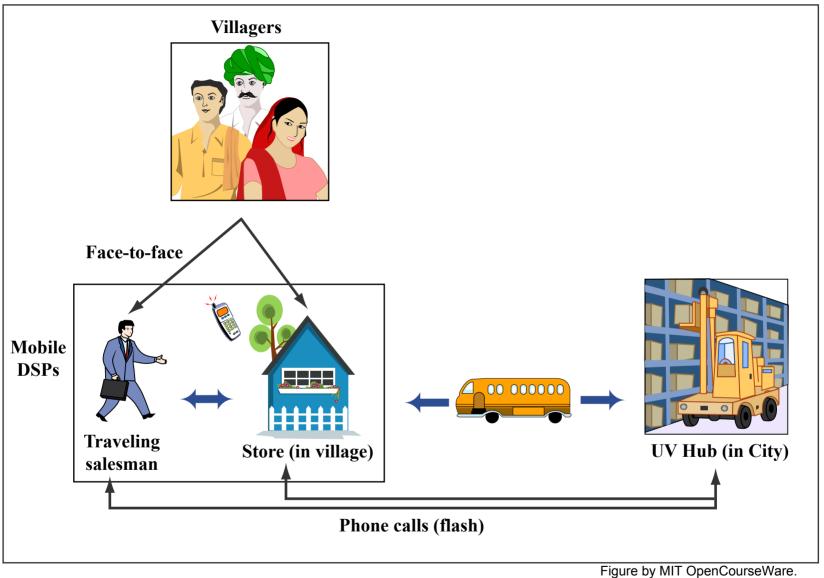
# UV M-Commerce Interface System Design

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#### 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





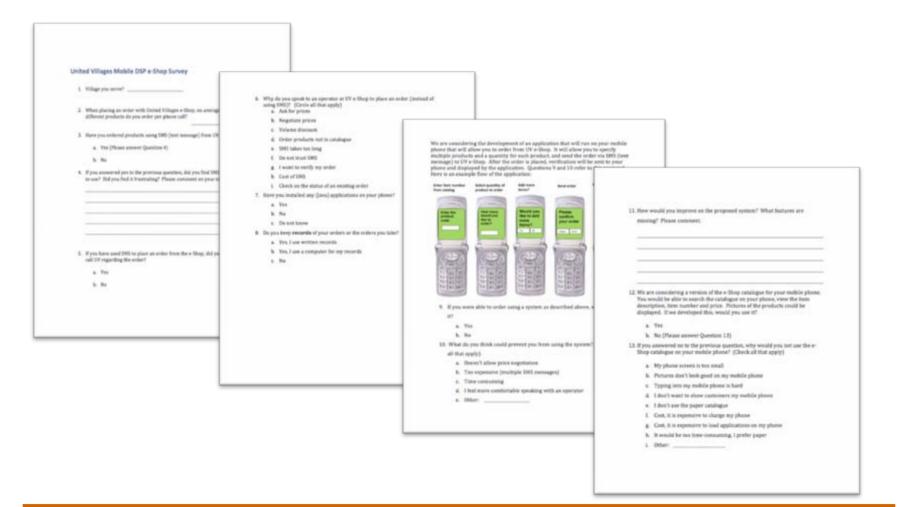
# Solution

- 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

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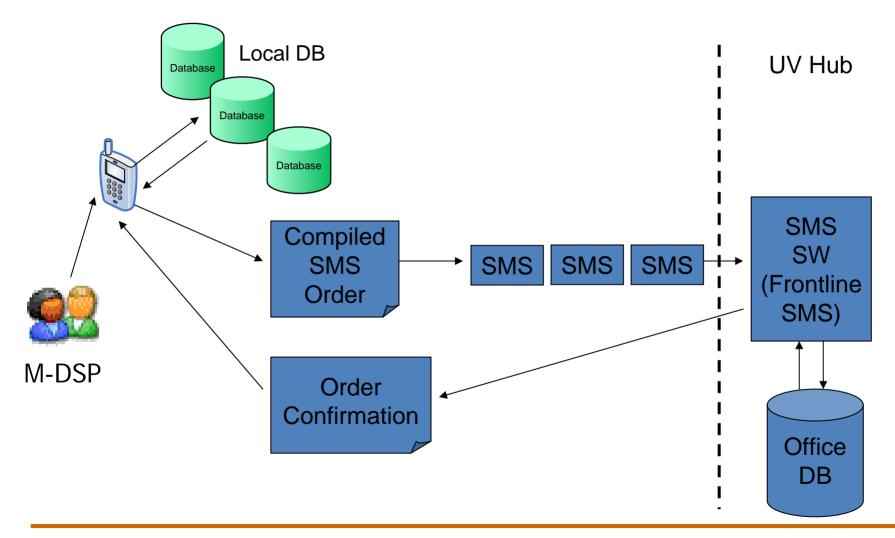


## J2ME Proposed Design





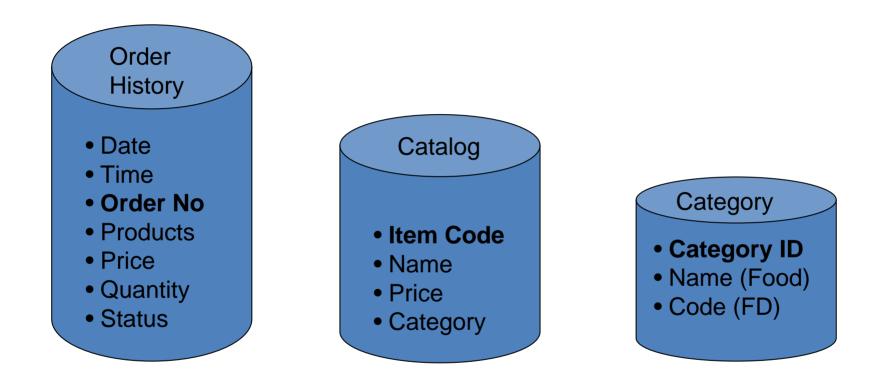
#### System Diagram







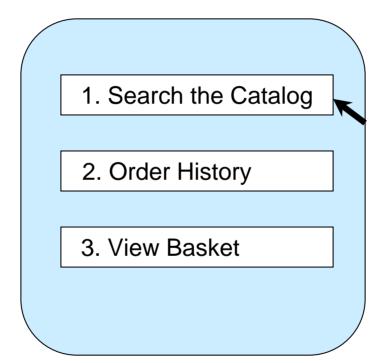
#### Databases







### 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





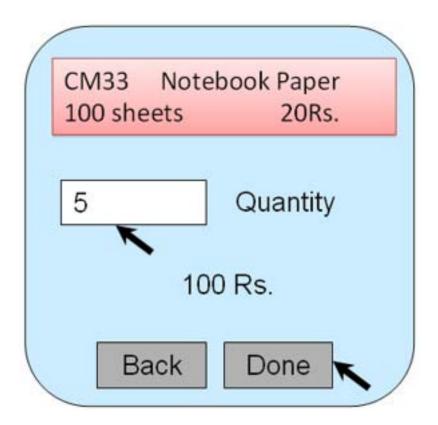
### **Browse Listings**

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





### **Enter Quantity**

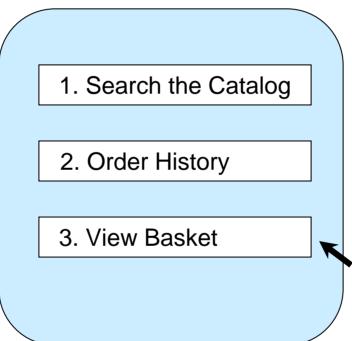






### **User Interface Design**

• Top level Menu

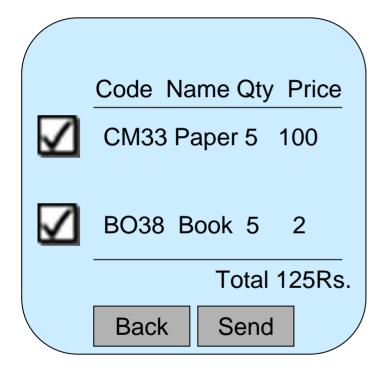






## View Basket

#### Menu



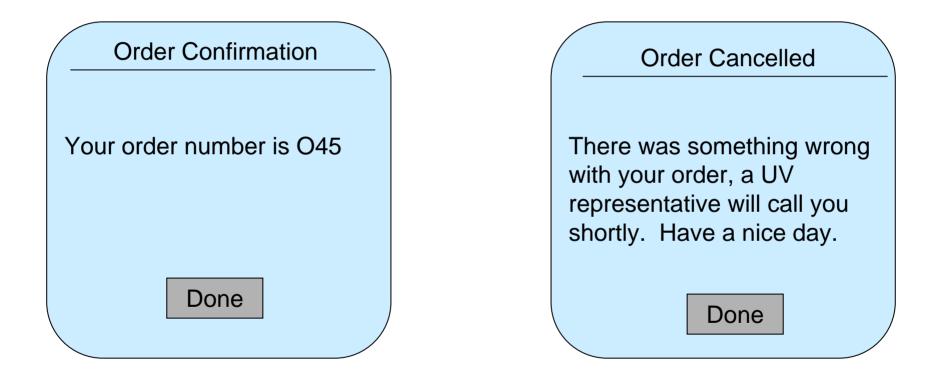
Steps:

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





### **Order Confirmation**

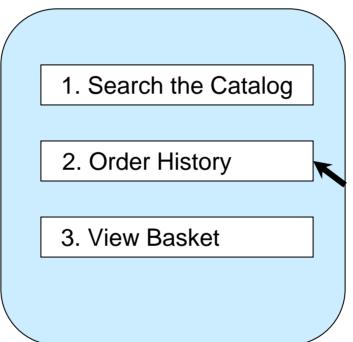






### **User Interface Design**

• Top level Menu

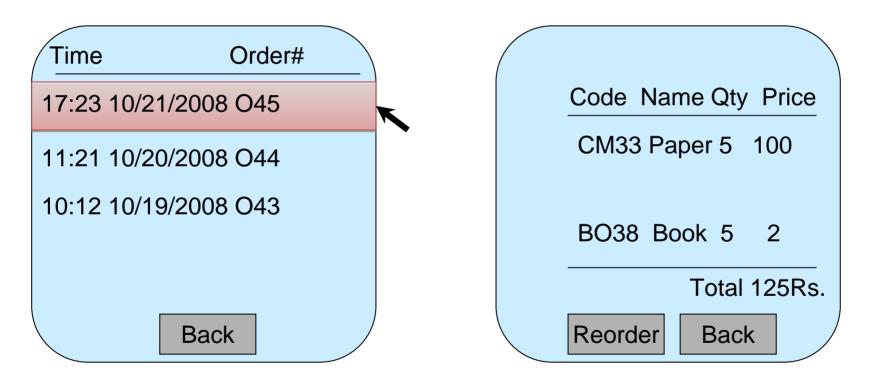






### **Order History**

#### Menu







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