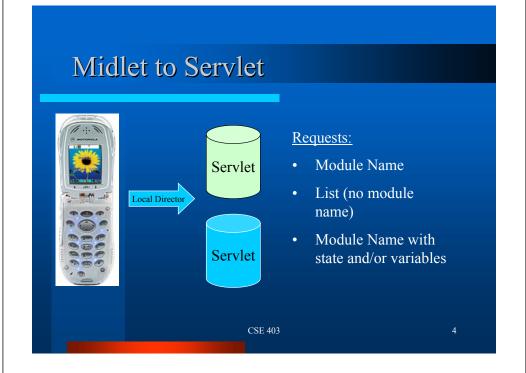
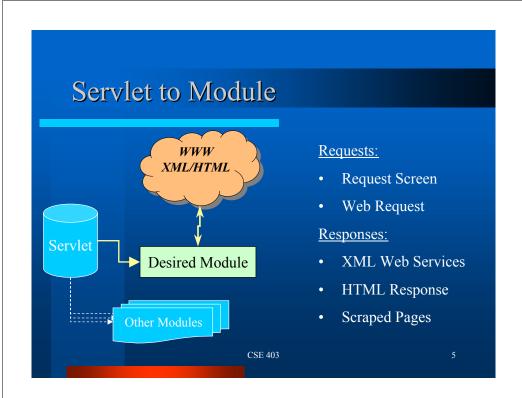
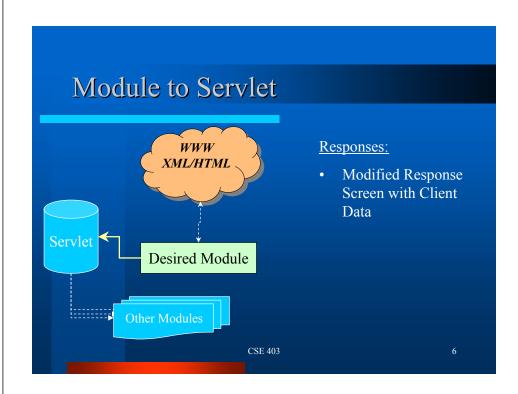


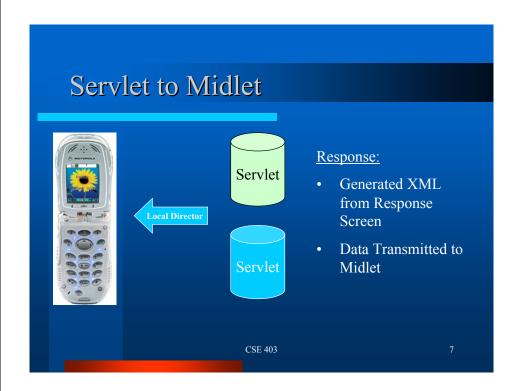
# PocketWeb Project The PocketWeb Project Fetch Data from Web Display on Phone User Manipulation Program Module Ideas News Email Bus Schedules Plane Tickets Sports Scores

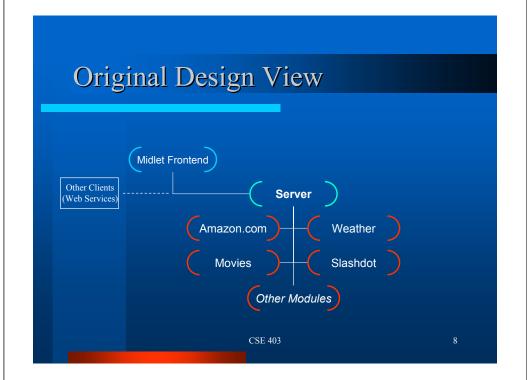
# Server Application .WAR file designed for Tomcat 4 .JAR files, libraries and modules Midlet Application .JAD file for phone .JAR file











# Release Design View Other Clients (Web Services) Amazon.com Test Stocks Weather Email Bible Recipes MapQuest

### Software Pieces: Midlet

- XML Browser
  - Converts XML to MIDP 1.0 Components
  - Only Diverse as MIDP 1.0 Spec
  - MMAPI Not fully used
  - No Streaming support
  - Basic data I/O
  - No caching
  - No user profile
  - Did we do anything?

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### Software Pieces: Servlet

- Interfaces with Framework
  - Abstraction layer between phone data and module layer
- Processes requests
  - Phone to module and back
- Configurable from Database
  - Fast integration/update/removal of modules

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Not fast enough

### Software Pieces: Framework

- Simple Java Classes Hierarchy
- Useful for Developers
  - Can simulate requests
    - Test Bed
    - JTest
    - Fast development of modules!
  - WebServices Toolkit
    - SOAP Requests
    - XML Parsing with XPath
- Link Application Code and Server

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### Software Pieces: Modules

- Amazon v1.1
  - Can View all of Amazon's Inventory, Searchable
- Bible
  - Can View King James Bible, Searchable
- MapQuest
  - Can Get Directions from one place to another
- Recipes
  - 67,000 Recipes Available, Searchable
- Weather
  - Weather for 7 days Available for your ZIP code
- More...

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## Missing Features

- Spec'd
  - Database Redrive
  - Some Module Ideas (RSS News etc)
  - User Module Selection (Web Page)
- Not Spec'd
  - New J2ME
  - MMAPI Elements (music, games)
  - Streaming Data
- Kinda Spec'd
  - State Processing Engine for Server/Framework

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# **State Processing Engine**

- Database of Module-Phone Connection States
- Midlet Interruptions
  - Phone Calls, Car Crashes etc.
- Intelligent Re-Drive
  - Database URL Queries for Continuation of Client Connection
  - Re-Drive initiated by request from known device

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- Optionally Disabled by Module
  - Transactions!!!

### What can I do?

- PocketWeb v2.0
  - Tasks:
    - Revised Specs
      - SOAP Requests
      - Server Administration
      - Web Page stuff
    - New Specs
      - MMAPI Elements
      - More Modules
      - (What do you want to do?)

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### What can I do?

- PocketWeb v2.0 (cont.)
  - Tasks:
    - Midlet Code
      - Upgrades for new Elements
      - Support for Streaming Data
      - User Management
    - Servlet / Database
      - User Management
      - Database Re-Drive
      - Safety / Security

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### Resources

- Code!!!!
  - Everything we did
  - Everything we didn't = )
- Documentation
  - Specs, Beta, IOC, etc...
  - Every document we wrote
    - For better or worse = )

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## Nutshell

- Real World Problems
  - Update a Spec
  - Implement Features "Triaged" by Previous Developers
  - Devise the next Version
    - Usability Decisions
    - Your Creativity
  - Spec the Next Version
  - Implement the new Spec

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