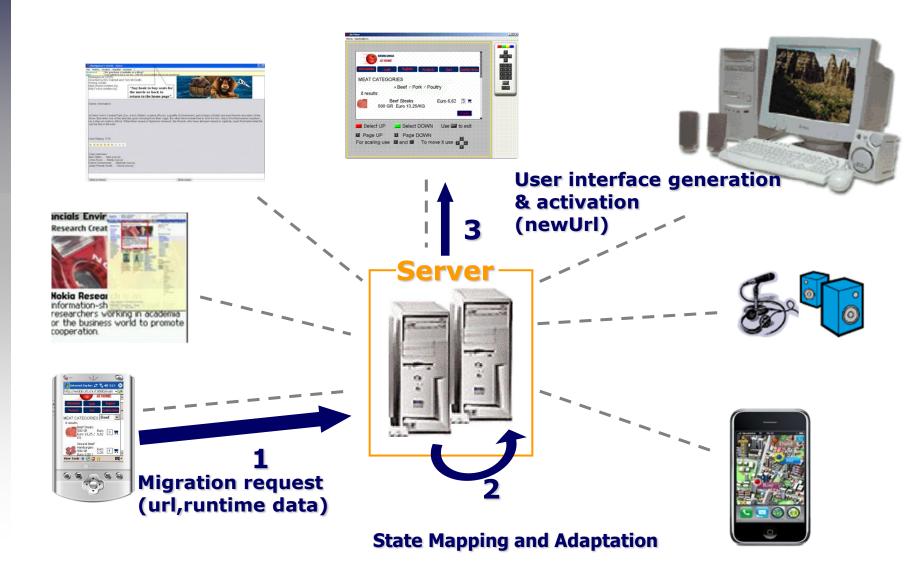


Giuseppe Ghiani, Fabio Paternò, Carmen Santoro CNR-ISTI, HIIS Laboratory Pisa, Italy http://giove.isti.cnr.it



- Our life is becoming a multi-device experience
- One of the main source of frustration is that we need to restart for each device change
- Need for continuous access to interactive services across various devices
- Migratory user interfaces can transfer among different devices (from 'source' devices to 'target' devices), so as to allow the users to continue their tasks
- Application domains such as shopping, bids for auction on line, games, making reservations

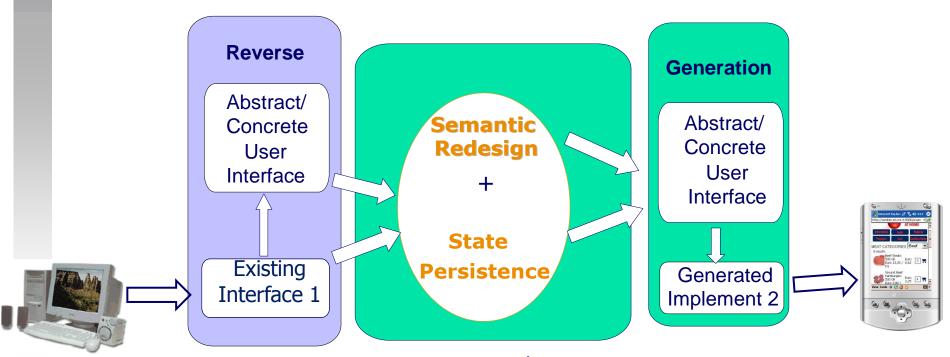
Support for Ubiquitous Migratory Interfaces



Dynamic User Interface Migration

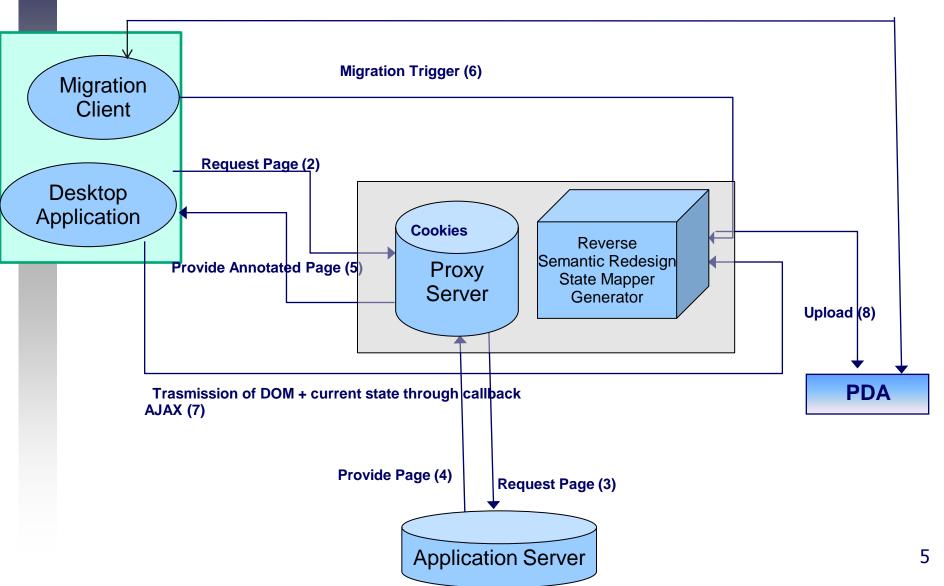
- Use of Logical Description Languages
- Existing Web desktop Applications
- Automatic user interface generation
- Possibility of targeting a variety of interaction platforms

UI Migration Server (Run-Time)

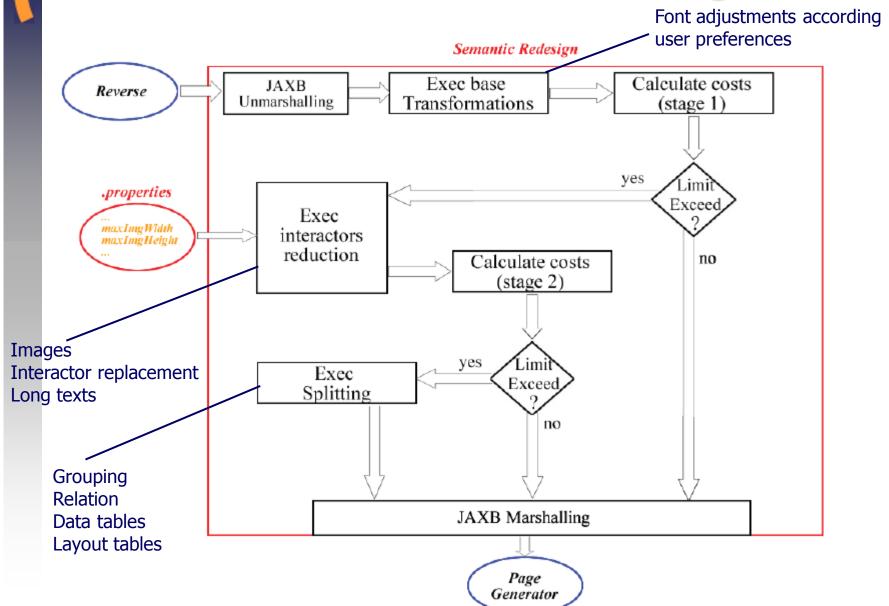


Architecture Migration

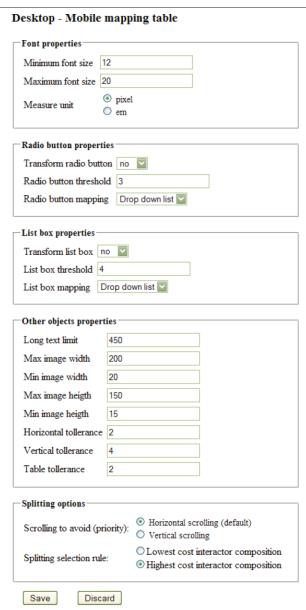
Device Discovery (1)



Parametric Bidimensional Cost-based Semantic Redesign

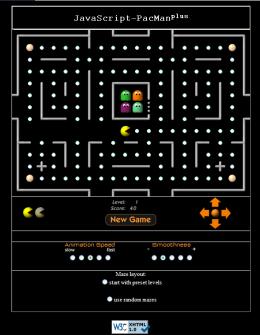








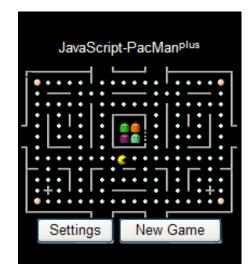
Example Migration











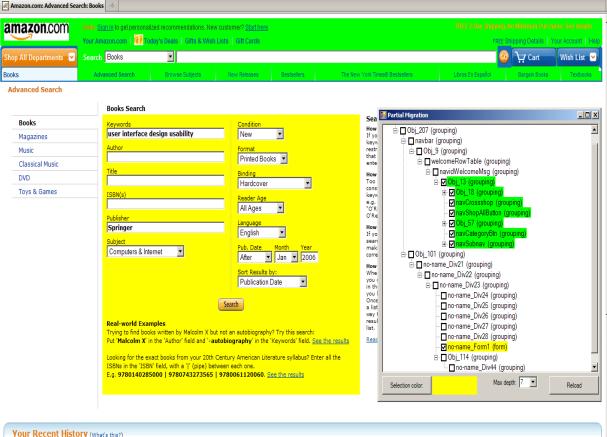


Customizable Partial Migration

- Migration Client should allow user to select Partial/Total Migration
- When partial migration is triggered the client should provide the logical structure of the interface considered with the main sections selectable
- The user selects the parts of interest
- The parts not relevant are removed from the logical interface
- The remaining parts are composed in a complete logical interface and sent to the adaptation process



Example Partial Migration



After viewing product detail pages or search results, look here to find an easy way to navigate back to pages you are interested in.



Host: Urano Address: 146.48.83.144
DISCOVERED DEVICES
- Marte Touch Ind 19202 - Wim_museo 3
SELECTED DEVICE
Type: Pda UUID: 777222555 Address: 146.48.82.136
MIGRATE PARTIAL OPTIONS

May 10 10

Conclusions & Future Work

- Extension to Migration of Multi-User Applications
- Privacy and Security Issues
- Usability Evaluation