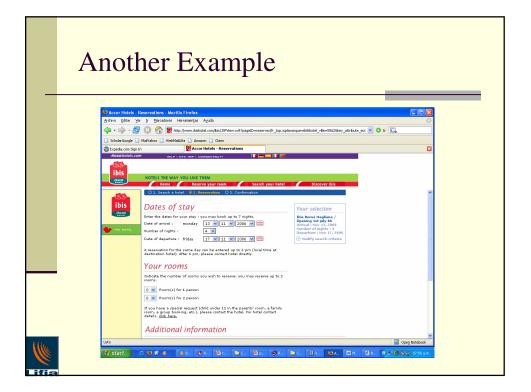
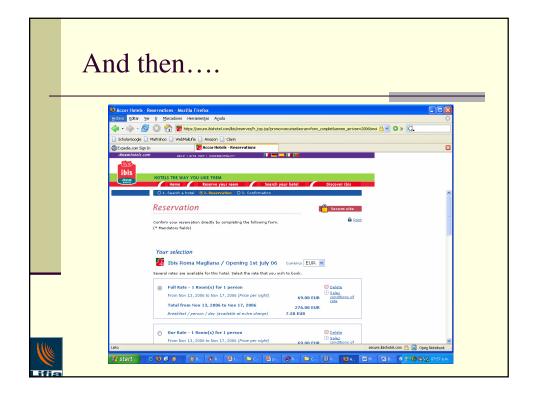
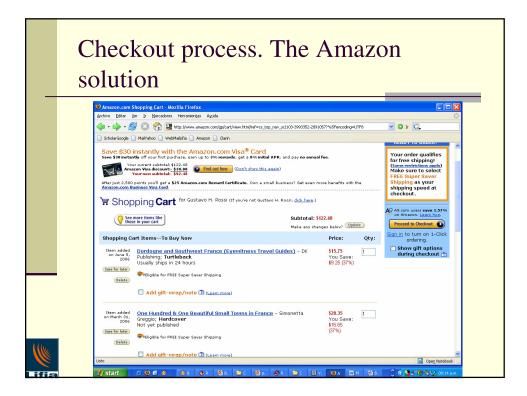
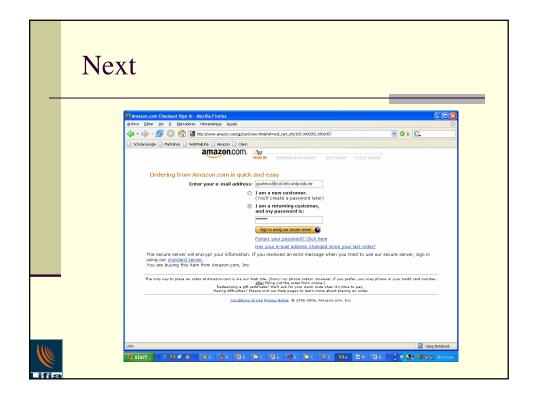
Business Processes in Web Apps

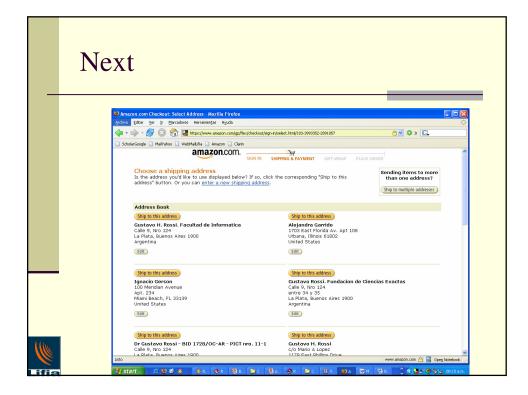
- Context: In a business process like the checkout process, the user has to go through a predefined sequence of activities: login, confirm the selection made, enter the address or other relevant personnel data, select some delivery options, ways of payment, etc., before the process is completed successfully.
- Usual Solution: This kind of processes is often emulated as a sequence of navigation steps, both with regard to modeling and implementation. That means each activity is mapped to one (or more) Web pages that are treated in the same way as other navigational objects (products, plane itineraries, etc)

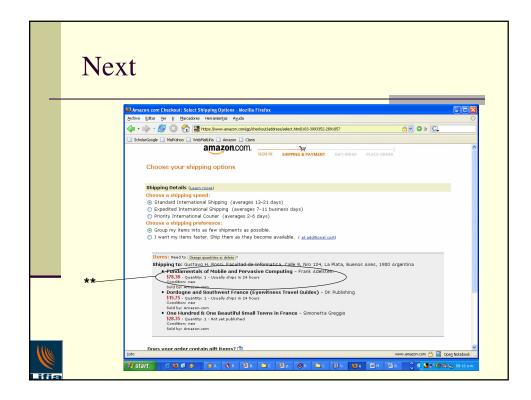


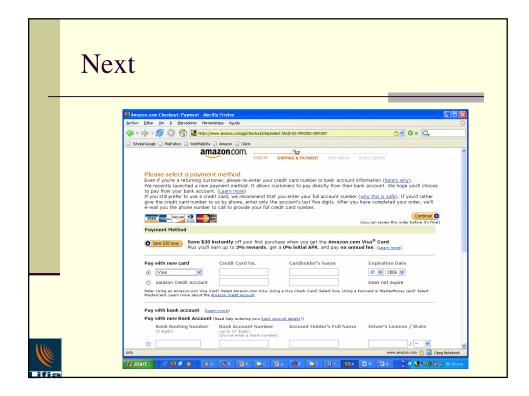


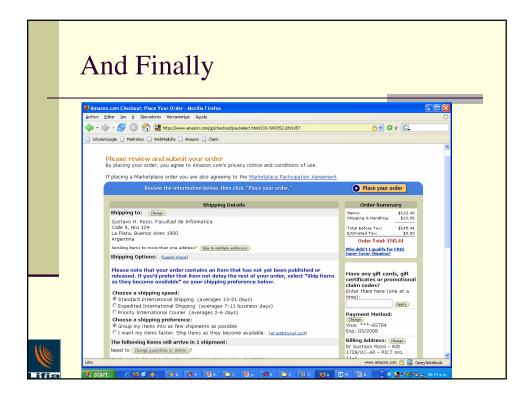


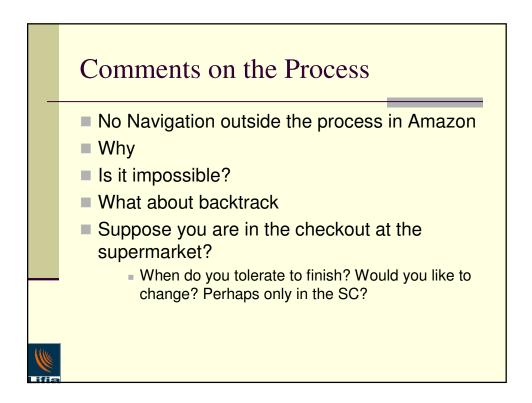












Problems with checkout example?

(See also reservations in Expedia, Avis.com, etc)

- -User disorientation: "what happens if I add the product to the cart again? Should I start the checkout again?"
- Inconsistent process states: in which state does the previous process remain if the user does not return immediately?; for example what happens if he begins shopping again and wants to checkout once more?
- Inconsistent or unpredictable share objects states: suppose that while exploring the product, he adds it to the cart; will this product be considered in this process? If he backtracks to the confirm items page, should this new product appear? Is the current list accurate?

More Problems.... Treating business processes just as navigation

Treating business processes just as navigation sequences also prevents the user from dealing with more than a process at a time. Suppose he is booking a flight, and before finishing he wants to rent a car from the destination airport: an application like <u>www.expedia.com</u> urges him to navigate to the second process, which is just an ordinary page, and then backtrack to the point in which the booking was left instead of just resuming the suspended process (e.g. by selecting the "flights" icon).



Business Process

- A business process [10]:
- Drives the user through its activities. That means that it defines the set of activities to be executed, and the control flow among them. In contrast, navigation is user-driven and random.
- Has a state that consists of the current activity, including the knowledge if it is active or suspended, and the previously performed activities (with a simple control flow, these can be implied from the current activity). As a consequence, the process state does imply which activities you have already executed (i.e. the history), and also which activities you have to perform subsequently. In contrast, the state of navigation is usually represented by the Web page displayed by the browser.

