

Interactive Web Services with Java and XML 2011



*La
Pizzeria*
--- Web Shop ---



- *La Pizzeria* wants to sell pizzas online and thus hired you to design and implement an online **web shop** in order to provide their customers with the possibility of placing orders directly on the internet.

Use Cases:



- **Register**: The customer should be able to *register* at the *La Pizzeria* web shop and create a profile with *valid* email (as *userid*), password, name, and delivery info: address, zip code, and phone number.
- **Browse**: The customer should be able to log in and *browse* a list of pizzas with description and prices for each. If a lot of pizzas are available, the page should be paginated (with, say, 10 pizzas per page, browseable page-by-page). The list should be sorted by either name or price.
- **Basket**: The customer should be able to add/remove pizzas to/from a shopping *basket*. It should be able to see the quantities and price per product along with the total price of the pizzas in the basket.
- **Checkout**: The customer should be able to *check* out; i.e., verify the contents of the basket and confirm the purchase.
- **Admin**: The administrator should be able to log in, add and remove pizzas kinds from the list of pizzas available in the web shop.

Input Validation:



- The customer info entered during registration should be **validated** (i.e., it should be checked that):
- **email**: is a valid email address which is done by sending a 4-digit number to the email address along with a link to a page where the key has to be entered before registration is completed (since you will presumably not be able to send emails from the slices, you can "simulate" sending out an email by just printing out the contents of the email on the screen inside a `<pre/>`-tag);
- **password**: should contain at least six characters, at least one digit, at least one letter character, and at least one non-digit/letter-character;
- **zip code**: should be a 4-digit number;
- **phone number**: should be a 8-digit number.

✗ invalid zip code:
Please enter a valid
four digit zip code !