

Web applications/DAT076 HT2012

Group 02

Documentation

TareaWebShop is a project created during course DAT076-HT12 and has been in development for about 3-4 weeks. The project has now come to an end and it is time to show off a prototype.

The group name for the project is TAREA where the first letter means Team and the following letters stands for the group members.

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General overview

TareaWebShop is a basic web application for the purpose of online shopping. The application lets a user buy products that will be added to a shopping cart where a user later can checkout. The webshop is build with Java Enterprise Edition 6 (JEE6) as platform. The system is based on Maven and may present only running on a single computer using Glassfish.

There are also some roles and permissions for the system. The users may only buy existing products stored at a database and add products to their shopping cart. The admin on the other hand has permission to update the database with new products, edit products or remove products.

Fully functional use cases:

- Login-page for admin
- Working database (db)
- Show products stored at db
- Availability to update db with products
- Add products to shopping cart

Technical design

Tiers

The project is using the most common three-tiered solution consisting of presentation, application and storage. The presentation match a web browser showing HTML/CSS/JavaScript, the application is dynamic web content technology using logic from JSF, and finally the storage that represents by a database using JPA.

Modules

The modules (packages) used in the project is the following:

Source Packages, contains backing beans that together with the xhtml-pages represents the view for the user. Each xhtml-page has its own bean containing information about what to be shown. These beans also acts as controller and perform all logic that is needed, like getting, setting and processing information.

Web-Pages, folder WEB-INF contains the configuration of the application. It defines loginconfiguration, roles and permissions. adminPages contains the xhtml-files only an admin has access to, files that can create/edit/remove products from the system. userPages contains xhtml-files only users has access to, like home, cart, products and checkout. The resource folder contains the necessary Cascading Style Sheets (CSS) used for the view experience.

UML and class description

To be found at the end of this document.

Used technologies

The application uses the following web based technologies: HTML, CSS, JavaScript, JSF and JPA.

The structure of the application is an OO-model based on a design pattern where we aim for high coupling and low cohesion between classes and methods. The GUI is basic but fully functional, just like a regular webshop.

Final reflection

Strong parts about the webshop:

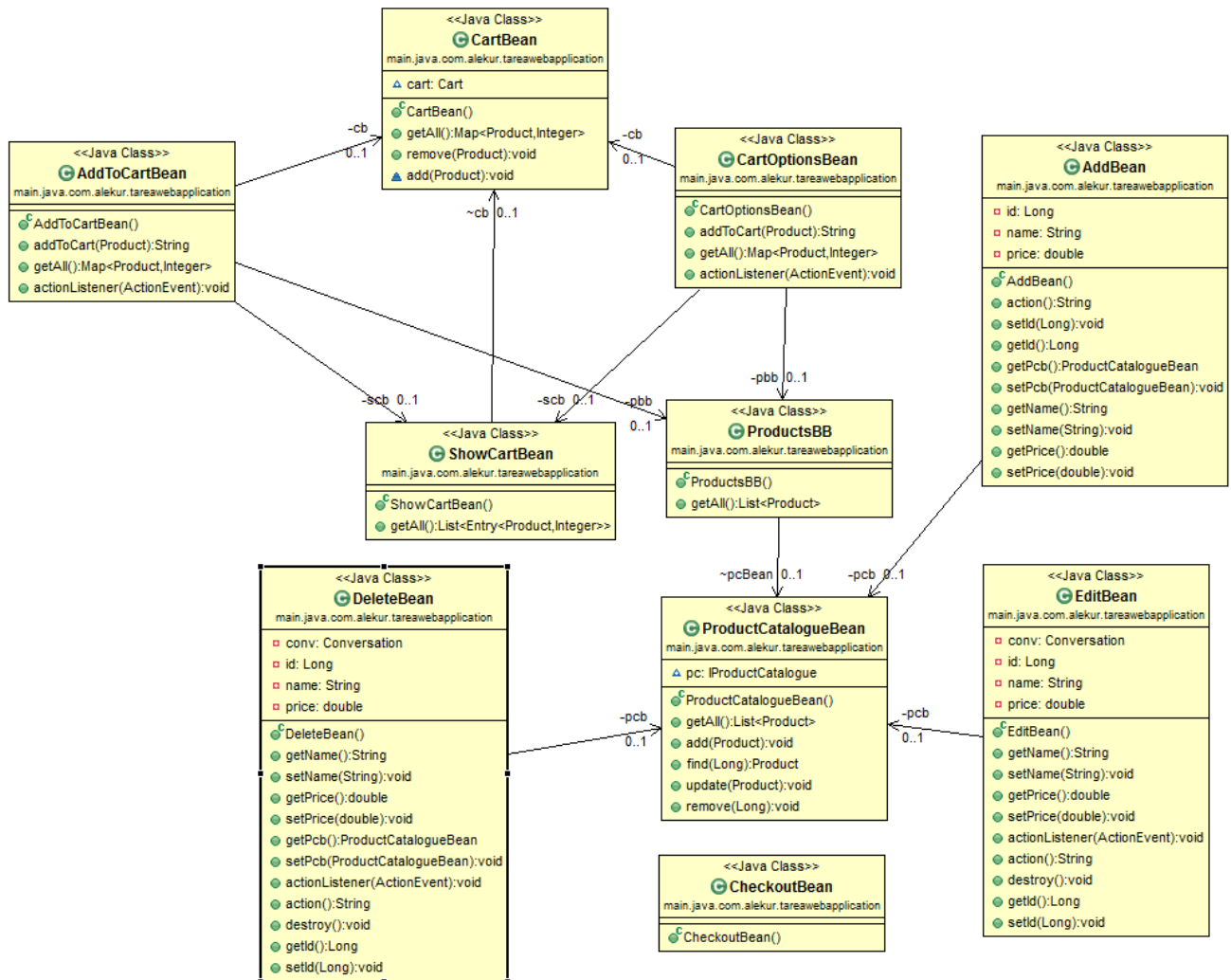
Overall we are satisfied about our webshop, it is very basic but it works. Given the short time we had at our disposal the webshop has working functionality with a number of use cases and a correct OO-model. The GUI is basic but usable with a nice login feature.

The weakness of the application is the small problem where a user cannot remove an added product from its shopping cart. Since we had a lot of problems with NetBeans and Git at the

end, and mention that Erik's hard drive broke, we just did not have the time to fix it. The option remove in shopping cart has worked and should do but it does not at the moment.

UML and class description

The structure of the backing beans



The structure of the shop

