



## Online store with administrator panel

### *A brief description of the system*

As part of the project, an application should be developed that allows for adding products to the store through the administrator panel. The system is to enable user registration and login as well as placing an order by the user.

### *Main functions of the system*

Login panel.

Admin:

- Adding categories for products.

- Category tree overview.

  - Adding products.

- Product list + edition.

User:

- Registration.

- Product list.

- Product table with pagination.

- Displaying the weather for the user's city.

### *General guidelines*

- Development of a website using Spring Boot, JPA (Hibernate) and ThymeLeaf as the view layer.

- Introducing the application division into DAO, services, controllers and placing appropriate logics in each of them

- Securing access to the application and functionalities using Spring Security.

### *Basic entities (proposal)*

#### **Category**

- name

- parent and "children" categories (tree placement)

#### **User account**

- login (e-mail)

- password (hash)

- city

- address (country, city, street, zip code)



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logotype/thumbnail/avatar  
role (ADMIN/USER—entity)  
preferred channel to receive messages (mail/e-mail)

**Product** title  
description  
thumbnail (url)  
category (entity)  
price  
product type (enum)  
author (entity)

**Order line**  
Product (entity)  
Quantity of products  
Product price

**Order**  
User name  
Total cost  
Delivery address  
User's address  
Date of order  
Order lines (entities)  
Customer (entity)  
Status (enum)

**Author**  
first name  
last name

**Role**  
Role name

**Cart** (not entity)  
Order lines



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### *Functionalities*

#### ADMIN:

##### *Adding a category*

- category name
- parent id

##### *Category tree overview*

- category search
- option to drag categories (change the position)

##### *Adding a product*

- name
- description
- image url
- inventory
- price
- product type (dropdown)
- category (dropdown)
- author (dropdown)

##### *Product list*

- list of all added products with their details listed
- button to edit the given product
- product search

#### USER:

##### *User registration*

- entering data into form fields + validation of these fields

##### *Logging in*

- possibility for the user to log in (after prior registration)
- possibility for the user to log out

##### *Weather widget*

- displaying weather based on the city of the user currently logged in



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#### *Product list*

- possibility to display products as a list or as a grid
- product search
- adding product to cart

#### *Table with products* (operating using Ajax on the GET query and inserting parameters into the url)

- displaying products in a table with pagination (selection of the number of products on the page)
- sorting products in the table
- Ajax-based product search
- adding products to cart

#### *Cart*

- displaying products added to the cart
- option to order products from the cart -> redirects to a static thank you page and reduces the product stock

#### *Additional tasks and extensions*

- the ability to edit the user account (data)
- overview of user orders (from user and admin levels)
- adding author in the admin panel

#### *Additional requirements*

- An aesthetic and functional way of presenting data should be ensured.
- Data collected from users should be pre-validated.



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