Online store with administrator panel

Brief description of the system

As part of the project, create an application, that allows you to add products to the store through the administrative panel and the system is to enable user registration and login as well as placing orders.

Main system functions

Login panel.

Admin:

Adding categories for products.

Category tree overview.

Adding products.

Product list + edition.

User:

Registration.

List of products.

Product table with pagination.

Viewing the weather for the user's city.

General Guidelines

Building a website using Django.

Introducing the division into models, views and controllers in the application and placing the appropriate logic in each of them.

Securing access to the application and functionality by using django.contrib.auth.

Basic entities (proposal)

Category

name

parent categories and 'children' categories (tree placement)

User account

login (email)

password (hash)

city

address (country, city, street, ZIP code)

logotype / thumbnail / avatar

role (ADMIN/USER - entity)

preferred communication channel (mail / email)

Product

title

description

thumbnail (url)

category (entity)

price

product type (enum)

author (entity)

Order line

Product (entity)

Number of products

Product price

Order

User name

Total cost

Delivery address

User address

Date of submission

Order lines (entity)

Client (entity)

Status (enum)

Author

Name

Surname

Role

Role name

Cart (not entity)

Order lines

Functionalities

ADMIN:

Adding a category

- category name

- parent id

Category tree overview

- category search

- option to drag categories (change position)

Adding a product

- name

- description

- picture url

- availability

- price

- product type (dropdown)

- category (dropdown)

- author (dropdown)

Product list

- list of all added products with their details

- button to go to edition of the given product

- product search

USER:

User registration

- entering data into form fields + validation of these fields

Log in

- User login option (after prior registration)

- possibility for the user to log out

Weather widget

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

Products list

- it is possible to display products as a list or as a grid

- product search

- adding product to cart

Table with products (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 product search

- adding products to the cart

Cart

- displaying products added to the cart

- option to order products from the cart -> leads to a static thank you page and reduces product availability

Additional tasks and extensions

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

Additional requirements

- it is necessary to ensure an aesthetic and functional way of presenting data
- data collected from users should be pre-*validated*