REPORT

Introduction

Django is a python-based open-source web framework that adopts MTV's framework pattern, namely model M, view V and template T. Django has complete functions and complete elements, comes with a large quantity of tools and frameworks, and has powerful database access components. It has outstanding advantages and is very suitable for making web pages. Using this architecture, programmers can easily and quickly create high-quality, maintainable, database-driven applications. Our task is to complete the development of a web app under the framework of Django based on the given open data.

Data and Processing

The data used in this project is a open data from e-commerce website. There are 7000 datas used in this project The application provides several views for rendering different web pages to the users. The “store” view which retrieves all product from the database and renders them on a webpage for the users to view and then the registration view which displays a registration form for the users to create a account on the website when the form is submitted the view creates a new user account and logs the user in. The “login view” which displays a login form for the users to sign in to their account on their website. When the form is submitted, the view authenticates the users credentials and log them in if they are valid.

Web page structure and implementation

The logout user logs out the current users and redirects them to a store view. The “cart view which views the content of the shopping cart, if the users in logged in the view retrieves the cart data from the database. If the users is not logged in, an empty cart is displayed. The “update item view” which is called when the user adds or remove from their shopping cart the view receives a Jason object containing the product id and the action. It updates the cart in the database accordingly and returns the json response.

The process order view which is called when the user submit their order the view receives a json object containing the form data and the total cost of the order. If the user is logged in the view creates an order in the database and sets it to complete. If the user is not logged in then the view creates a guest order in the database. The view then redirects the user in to the thank you page.

The data process involves retrieving, creating, updating and deleting the data from the database based on the user action and form submission. Due to some error the web page is partially rendered .

Reference

https://shopeasy-uogj.onrender.com/ the website of the data used.