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Report: Building an E-commerce Website using Django Framework

Render URL: https://solo-assessment.onrender.com
Github: https://github.com/lrh500/shoppingweb.git

Introduction:
This e-commerce website is built using the Django framework. It is designed to provide users with a seamless shopping experience, including functions such as product data visualization, shopping cart management, advanced search, and filtering. The website is developed with the use of Panda library for data visualization and other features, which enhances the user experience.

Design:
The website follows the Model-View-Controller (MVC) architecture, which separates the application into three interconnected parts - Model, View, and Controller. The Model represents the database and data operations, View represents the user interface, and the Controller handles the requests and sends the responses.

Development and Implementation:
The website is developed using Django framework, which provides a set of libraries and tools to develop a scalable and maintainable web application. The website utilizes the Panda library for data visualization and other functionalities. The development process includes testing with Behave and Django's built-in testing libraries, ensuring the website is bug-free and runs smoothly.

Installation and Use:
The website can be easily installed by cloning the repository and setting up the virtual environment. The virtual environment includes all the necessary dependencies for the website to run. Users can access the website using any web browser and start shopping.

Conclusion:
In conclusion, this e-commerce website provides a seamless shopping experience to its users with the help of Django framework and Panda library for data visualization. It includes various features such as shopping cart management, advanced search, and filtering, making it easier for users to find the products they need. The website has been thoroughly tested and is free of bugs, ensuring smooth and efficient performance.