

E-Shop with Virtual Try-on

By: Aldrin Amistoso, Danny Simpson, and Fang Lin

What is E-Shop with Virtual Try-on?

The E-Shop with Virtual Try-On combines the functionality of an e-commerce platform with a virtual try-on feature, specifically tailored for selling women's clothing and fast-fashion products.

What can E-Shop Solve?

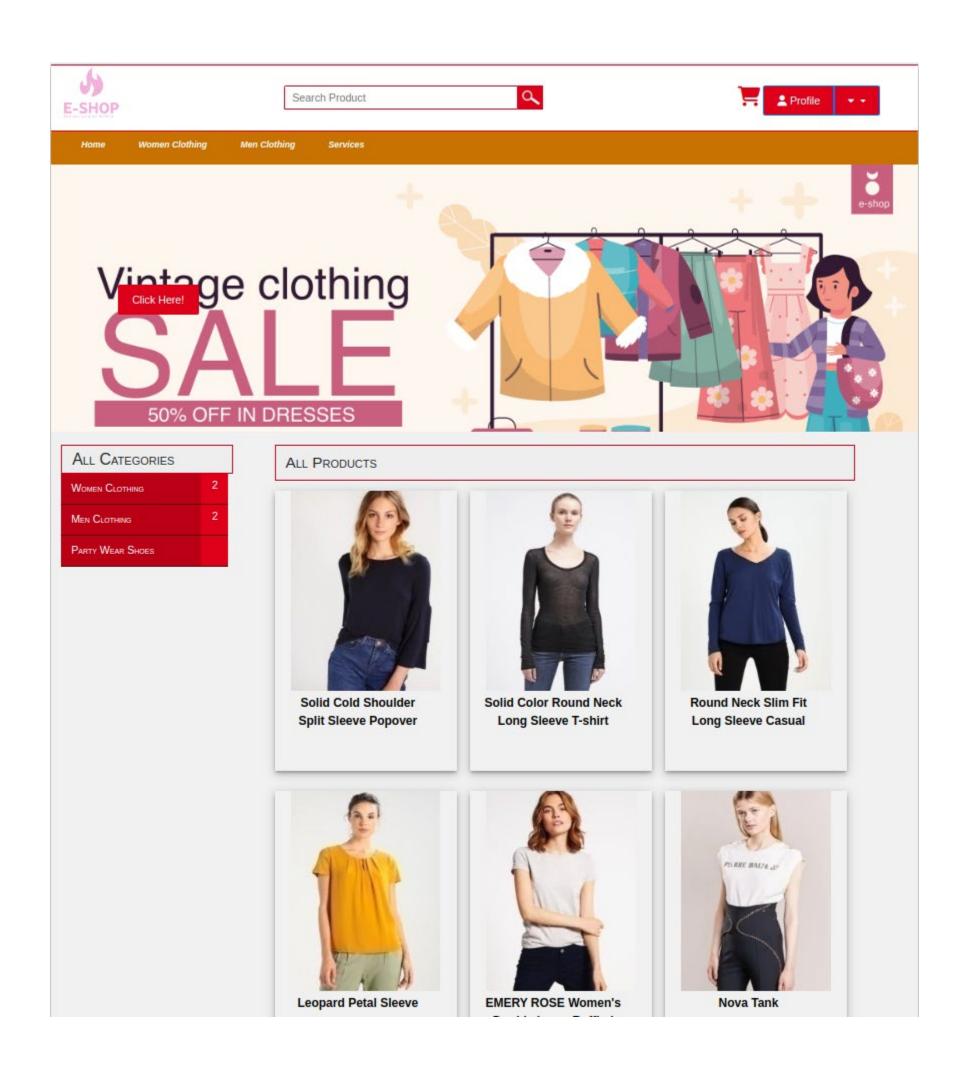
The E-Shop can solve several challenges and bring numerous benefits to both businesses and customers:

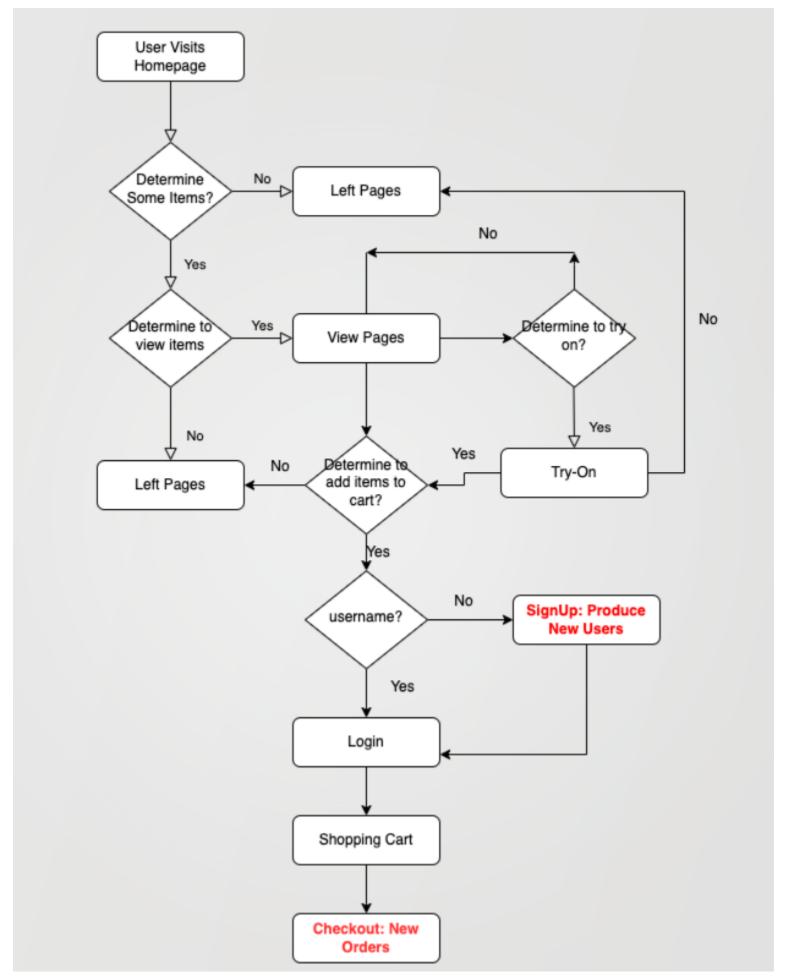
- Breaking Barriers: E-Shop will eliminate the geographical barriers.
- Cost Efficiency: Running an E-Shop is generally more cost-effective than maintaining a brick-and-mortar store.
- Enhanced Customer Experience: E-Shop
 offers a personalized and convenient shopping
 experience.
- Data-Driven Insights: E-Shop collects valuable data on customer behavior, preferences, and purchasing patterns.
- Market Competition: By leveraging virtual tryon, decrease the intangible shopping experience
 and gain a competitive edge in the market.

The E-Shop's Features

- Full framework E-Commerce:
- Virtual Try-on
- Customer Behavior Analysis
- Customer Purchasing Recommendation
- Web Scraping
- Competitive Analysis

Homepage and Flowchart





Virtual Try-on

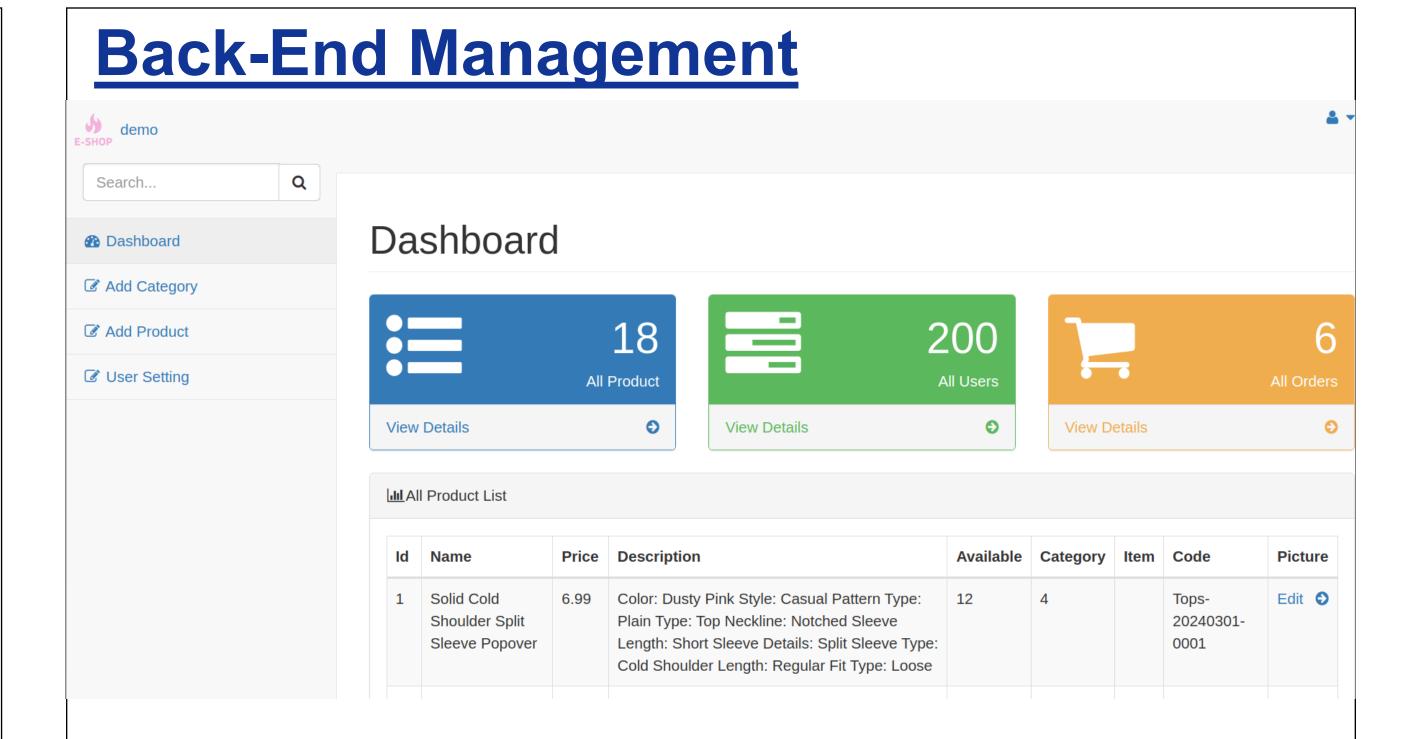
Image Preprocessing

- Open Pose
- Human Parse
- Dense Pose
- Parse Agnostic
- Human Agnostic

Clothing Warping

Tryon Inference

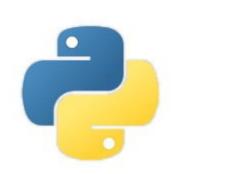




Benefits of Web-Scraping

- Competitive Analysis
- Market Trend Insights
- Price Optimization

Tools Used









Conclusion

- E-Shop demonstrates the innovative integration of a Virtual Try-On feature, designed to enhance the online shopping for the users.
- The use of technologies like Flask and MySQL strengthens that platform's efficiency and competitiveness.
- E-shop represents a significant step forward in combining retail with digital innovation for a superior shopping experience.