

STYLE SWAP

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ABSTRACT

Style Swap, a practice gaining momentum in the face of fast fashion's environmental and social impacts, offers a sustainable and community-driven alternative to traditional consumption. This abstract explores the multifaceted nature of clothing exchange, examining its benefits, challenges, and potential for broader adoption. Clothing exchange encompasses various models, from informal swaps among friends to organized events and online platforms, all sharing the core principle of recirculating existing garments rather than purchasing new ones.

Style swap encourages the reuse and remixing of clothing styles.

The "Style Swap" shopping app addresses the growing need for a convenient and sustainable platform for decluttering and recirculating pre-owned items. "Style Swap" provides a user-friendly mobile interface for individuals to easily list items they wish to sell, give away or exchange of clothes. The app facilitates a seamless experience for both sellers and buyers, promoting a circular economy model and reducing waste.

1-INTRODUCTION

Style Swap, a practice gaining momentum in the face of fast fashion's environmental and

social impacts, offers a sustainable and community-driven alternative to traditional consumption. This abstract explores the multifaceted nature of clothing exchange, examining its benefits, challenges, and potential for broader adoption. Clothing exchange encompasses various models, from informal swaps among friends to organized events and online platforms, all sharing the core principle of recirculating existing garments rather than purchasing new ones. Style swap encourages the reuse and remixing of clothing styles.

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Existing System

The existing platforms often suffer from deals with second hand items, there's always a risk of receiving counterfeit products or items not matching the seller's description. It faces a hassle to deal with returns and refunds. The condition of pre-owned items can vary

greatly. Even with descriptions and photos, it can be difficult to accurately assess the item's quality. This can lead to disappointment upon receiving the product. Finding specific items or sizes might still be challenging compared to larger e-commerce platforms. There are issues with existing platforms customer service, citing slow response times or unhelpful support. While the existing system does inspect items, the condition descriptions can be subjective. What one person considers "gently used" might be different for another. Buyers might receive items with unexpected flaws or wear. The existing system does accept returns, the process can be slow and sometimes involves paying for return shipping.

Proposed System

The proposed system aims for style swapping which involve a digital platform, where individuals can exchange clothing items or accessories with others. The success of system would depend on factors such as user engagement, the variety and quality of listed items, and the platform's ability to facilitate smooth and secure transactions. Style swap allows users to buy, sell, and swap clothing. Users list items they wish to swap and browse listings of others. Upon finding a match, they can arrange a

direct exchange via person. Users earn credits for listing or donating items.

These credits can then be used to "purchase" items from other users.

2.REQUIREMENT ANALYSIS

Functional Requirements

- Admin Module
- User Module

Admin Module

The admin module is designed for backend management and monitoring. The admin can directly log in through a separate secure interface. Once authenticated, the admin has the ability to manage user access, including reviewing registered users and granting authentication. The admin can view detailed user activity, including the number of registered users, the products they've uploaded. Additionally, the admin has full control over user management, with capabilities to add, delete, or update user accounts, as well as upload products into the system. A logout option is provided for secure session termination. These functionalities ensure that both user engagement and content management are streamlined and well-monitored within the Style swap application.

User Module

The user module for a style swap project is a crucial component that enables users to interact with the platform seamlessly, providing features such as user profiles, product browsing and searching, product details and reviews, shopping cart and checkout, order management,

and user feedback and support. By incorporating these features, the platform can drive engagement, increase sales, and build a loyal community of users, establishing itself as a trusted destination for second-hand clothing enthusiasts. A well-designed user module allows users to create accounts, log in, and access personalized features, while also providing a seamless shopping experience with secure checkout and order tracking. By prioritizing user experience, the platform can differentiate itself and attract a loyal customer base.

Non-Functional Requirements

- **Scalability:** The system should efficiently handle a growing database of products . It should support an increasing number of users without performance degradation.
- **Performance:** The system should respond to user queries within 2 seconds. Pages should load within 3 seconds.

- **Availability & Reliability:** Users should be notified in case of scheduled downtime. The system should handle errors gracefully and provide meaningful error messages.
 - **Security:** Users should be authenticated using a secure login mechanism. Access to sensitive data should be restricted based on user roles.
 - **Maintainability:** The system should be easy to update with new features and improvements. The database and recognition model should allow periodic updates without system downtime. Logs should be maintained for debugging and system monitoring.
- **Usability:** The system should be accessible on various devices and browsers. The system should have clear and consistent navigation.
 - **Compatibility:** The application should run smoothly on modern web browsers (Chrome, Firefox, Edge). The backend should be compatible with different operating systems for deployment.

Software Requirements

The software requirements document is the specification of the system. It should include both the definition and a specification of the requirements. It is a set of what the system should do rather than how it should do it. The software requirements provide a basis for creating the software requirements specification. It is useful in estimating cost, planning team activities, performing tasks and tracking the

team's progress throughout the development activity.

- Operating System : Windows 11 and above
- Database : Mysql
- Frontend : JavaScript
- Backend : Python

Hardware Requirements

Hardware Requirements are the most common set of requirements defined by any operating system or software application is the physical computer resources, also known as hardware.

- Processor : Intel i5 (min).

Software Architecture

- RAM : 8GB (min).
- Hard Disk : 500GB (min).

3.DESIGN

Design of the project represents the number of components we are using as a part of the project and the flow of request processing i.e., what components in processing the request and in which order. An architecture description is a formal description and representation of a system organized in a way that supports reasoning about the structure of the system

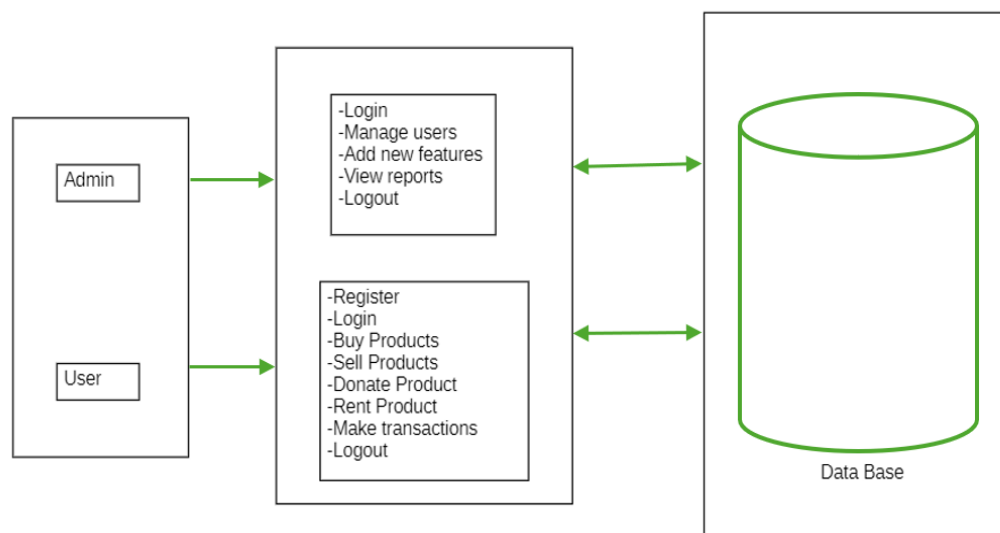


Fig 3.1 Software Architecture

Technical Architecture



Fig 3.2 Technical Architecture

4.IMPLEMENTATION

This system is developed using python programming language using Visual Studio code.

FLASK

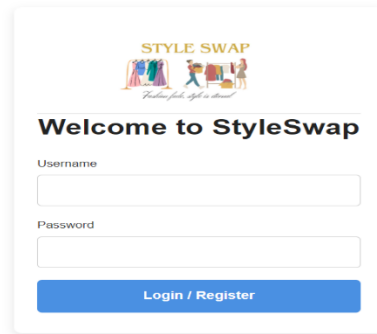
Flask is a popular micro web framework for Python that is known for its lightweight and flexible approach to web development. Unlike larger frameworks like Django, Flask provides a minimalist approach to building web applications, giving developers the freedom to structure their code and choose their own libraries and tools. One of the key features of Flask is its simplicity. With a small codebase and minimal dependencies, Flask is easy to learn and use, making it an ideal choice for small to medium-sized projects. Flask also provides a flexible and modular design, allowing developers to build their applications in a variety of ways. This flexibility makes it easy to integrate Flask with other libraries and frameworks, giving developers a wide range of options for building their applications.

Pseudo Code

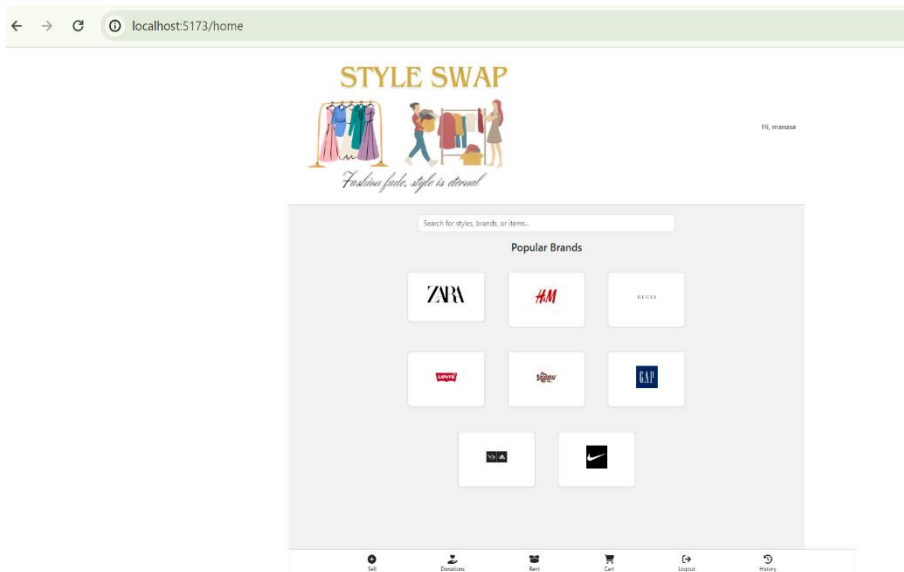
Pseudocode is a detailed yet readable description of what a computer program or algorithm must do, expressed in a formally-styled natural language rather than in a programming language. It allows designers to express the design in great detail and provides programmers a detailed template for the next step of writing code in a specific programming language. Because pseudocode is detailed yet readable, it can be inspected by the team of designers and programmers as a way to ensure that actual programming is likely to match design specifications. Catching errors at the pseudocode stage is less costly than catching them later in the development process. Once the pseudocode is accepted, it is rewritten using the vocabulary and syntax of a programming language.

5-SCREENSHOTS

localhost:5173/login

The form is titled 'Welcome to StyleSwap' and includes fields for 'Username' and 'Password'. Below these fields is a blue button labeled 'Login / Register'. The form is part of a larger page with a header that says 'STYLE SWAP' and a tagline 'Fashion finds, style is eternal'.

Screenshot 1: User Registration page



Screenshot 2: Dashboard

localhost:5173/sell



Sell a Product

Choose Option:
☒ Sell ☐ Rent ☐ Donate

Brand:

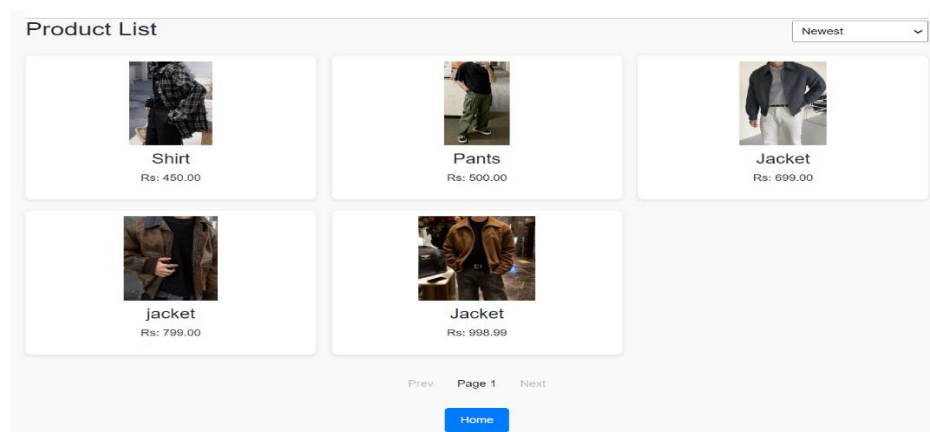
Product Name:

Description:

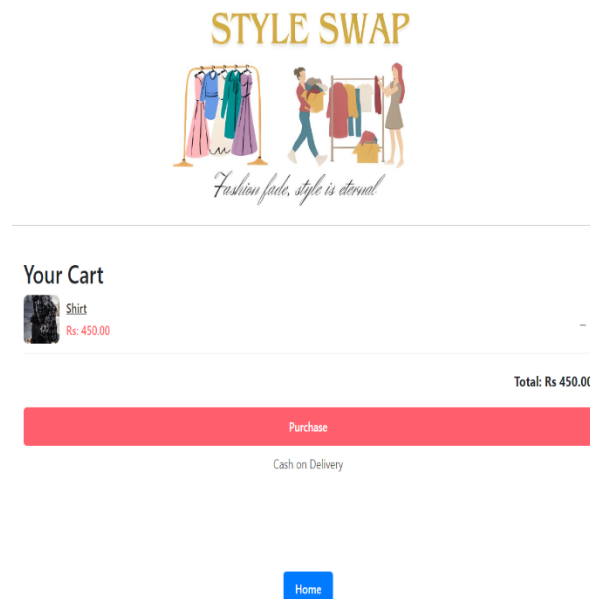
Price:

Product Image:
 No file chosen

Screenshot 3: Uploading product details for selling



Screenshot 4: List of Products



Screenshot 5: Adding products into cart

7. CONCLUSION & FUTURE SCOPE

The style swap platform offers a unique solution for individuals looking to declutter their wardrobes while promoting sustainability and affordability in the fashion industry. By providing a user-friendly interface and a range of features that facilitate buying and selling, the platform has the potential to revolutionize the way people consume fashion .

Future Scope

- Ensuring efficient delivery
- Implement AR technology so users can see how clothes would look on them before buying.
- Earn points for purchasing, selling, or donating clothes, redeemable for discounts
- AI Price Estimator: Helps sellers price their items competitively based on brand, condition, and market demand.

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