

# “PACKS – Packaging And Control Kit System”

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# PACKS

Packaging And Control Kit System



# PACKS – PACKAGING AND CONTROL KIT SYSTEM

- **PACKS** – PACKS is an Acronym
- **P – Packaging** : Focuses on efficient and secure handling of products for delivery.
- **A – And** : Represents the integration of various essential eCommerce elements.
- **C – Control** : Introduces measures to eliminate middlemen and enhance transparency.
- **K – Kit** : Offers a bundled, ready-to-use platform for sellers and buyers alike.
- **S – System** : Functions as a unified structure connecting trusted vendors with consumers.

## ❑ Introduction to PACKS

### ❖ What is PACKS?

- ✓ A direct eCommerce platform offering a seamless shopping experience.
- ✓ Eliminates middlemen to ensure better pricing and transparency.

### ❖ Why PACKS?

- ✓ Because the name easily convey the meaning and its purpose.
- ✓ It has a flare of patriotism to it.

# Problems Within Existing System

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- 1. Limited Reach** – Many platforms struggle to serve Tier 2 & Tier 3 cities, leaving a large customer base underserved.
- 2. Time-Consuming Process** – Lengthy product searches, checkout delays, and slow deliveries make shopping inefficient.
- 3. High Manpower Requirements** – Traditional commerce models require extensive workforce management for sellers, logistics, and customer support.
- 4. Increased Product Prices** – Middlemen and commissions drive up costs, making products more expensive for consumers.
- 5. Resource-Intensive Operations** – Managing multiple sellers, warehouses, and logistics networks leads to higher operational costs.

# Need For New System

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- 1. Wider Reach** – A direct vendor model ensures seamless access to Tier 2 & Tier 3 cities, expanding market coverage.
- 2. Faster Shopping & Delivery** – Eliminating middlemen streamlines processes, reducing delays in order fulfillment.
- 3. Reduced Manpower Costs** – Automating order processing, logistics, and customer support lowers operational workforce dependency.
- 4. Lower Product Prices** – Direct sourcing from manufacturers minimizes extra charges, making products more affordable.
- 5. Efficient Resource Utilization** – Optimized inventory and logistics management cut down unnecessary resource consumption.

# Proposed New System - PACKS

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**PACKS** is a **multi-vendor, multi-buyer eCommerce platform** that connects sellers directly with consumers, eliminating middlemen to ensure affordable pricing, buyer & seller authenticity.

Key Features of the Proposed System :-

- 1. Multi-Vendor System** – Allows multiple vendors to list and sell products directly, ensuring authenticity and competitive pricing.
- 2. Multi-Buyer System** – Supports multiple customers simultaneously with a seamless shopping experience.
- 3. Product Listing** – Vendors can easily upload product details, images, and pricing.
- 4. Placing Orders** – Customers can browse, add items to the cart, and place orders for one or multiple products simultaneously.
- 5. Delivery Tracking System** – Real-time shipment tracking keeps customers updated on order status.

# Technologies Used

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- 1. Template Management and Template Inheritance** – Django framework provides in itself the feature of template management and also provides support for inheritance of one template into another.
- 2. Static Files and Media Files** – Django framework also provides its efficient method of managing static files and media files by creating root directories.
- 3. Django Localhost Server** – Django framework provides its own local server for testing and hosting the website for development and debugging.
- 4. Default User Model** – Django framework provides a default user model which used to the store data of all type of users.
- 5. Django Authentication** – Django framework provides predefined function of Authenticate, Login and Logout which can be used to perform authentication of a user , it's login and logout activities.

# Technologies Used – Continued

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**6. Dynamic Url Routing** – Django framework provides support to create and use dynamic urls for routing to webpages.

**7. CSRF Token** – CSRF stands for Cross Site Request Forgery , Django framework in all its forms uses a csrf token to ensure the integrity of the data passing via forms.

**8. Django ORM** – ORM stands for Object-Relational Mapping, Django framework uses object relational mapping to map each object member of a class as a field in the database. It provides easy, fast and efficient controls. We can fetch records faster.

**9. Django Admin Interface** – Django framework provides a default admin interface which can be used to create admins and super-admins. Admins are those with staff privileges and super-admins have all privileges of all tables.

**10. Easy Integration with Other Python Modules** – Django itself being a python module, it allows seamless integration with other python modules such as pillow and csv for better functionality in the overall projects.



# Future Enhancements

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- 1. Payment Gateways** – Modern payment gateway systems such as billdesk and razorpay can be added to provide support for online transactions.
- 2. Add Sale Function** – Other functionalities such as creating a sale can be used to increase data traffic on the website.
- 3. Increase Filters** – The number of filters can be increased in the near future.
- 4. Review and Rating System** – A review system can be introduced to leave review on the purchased product by the buyer.
- 5. Profile Management** – Profile management will allow users(buyer & sellers) to manage their own profile records and details.
- 6. Increase Responsiveness** – The overall responsiveness of the website can be increased by using better animatronics and reactive css.
- 7. More Reports** – We can integrate other python modules like Matplotlib to make better infographical and statistical reports

# Conclusion

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PACKS is a powerful multi-vendor, multi-buyer eCommerce platform designed to directly connect sellers with consumers, removing intermediaries to promote transparency, authenticity, and affordability. By offering key features such as a robust multi-vendor system, seamless support for multiple buyers, easy product listing, efficient order placement, and real-time delivery tracking, PACKS delivers a smooth and user-friendly shopping experience. This innovative approach not only ensures competitive pricing and genuine products but also simplifies the overall process for both vendors and buyers, making it a promising solution in the evolving digital commerce landscape.

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