

# Next-Gen Dress Rental & Cleaning App

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**Abstract**—The rapid growth of mobile technology and digital services has transformed traditional business models into efficient online platforms. In the fashion industry, many local dress shops still depend on offline methods for sales, rentals, and delivery, which limits their reach and efficiency. Customers face difficulties in finding nearby dress shops, checking dress availability, and tracking deliveries. To overcome these limitations, this project proposes a Third-Party Dress Delivery and Rental Application. The proposed application acts as a common digital platform that connects customers, local dress shops, and delivery partners. Customers can browse dress collections, choose to buy or rent dresses, place orders, and track deliveries in real time. Local dress shops can register on the platform, upload their collections, manage orders, and handle rental services efficiently. Delivery partners are assigned automatically based on location, ensuring timely delivery. The system uses GPS-based location services to identify nearby shops and calculate delivery time accurately. Secure digital payment options and feedback systems are integrated to improve user convenience and service quality. By digitizing the entire process, the application reduces manual work, improves transparency, and enhances customer satisfaction. This project supports the digital growth of small and medium dress shops and provides a reliable solution for modern dress delivery and rental services. The proposed system demonstrates how technology can effectively bridge the gap between customers and local businesses while offering a scalable and user-friendly platform.

**Index Terms**—dress rental and cleaning, tracking deliveries, GPS- based location services, medium dress shops.

## I. INTRODUCTION

Methodology describes the systematic approach followed to design, develop, and implement the proposed system. It explains the overall working process, techniques used, and step-by-step flow

involved in achieving the project objectives. A well-defined methodology helps in understanding how the system operates and ensures proper coordination between different modules of the application. In this project, the methodology focuses on developing a Third-Party Dress

Delivery and Rental Application that connects customers, local dress shops, and delivery partners through a single digital platform. The main goal of the methodology is to provide a smooth, efficient, and reliable process for dress ordering, rental management, and real-time delivery tracking. The proposed system follows a structured workflow starting from user login and location detection to order placement, shop confirmation, delivery assignment, and order completion. Modern technologies such as GPS-based location tracking, online payment systems, and real-time notifications are integrated to improve accuracy and user experience. The methodology also explains how different users such as customers, shop owners, and delivery partners interact with the application. Each module is designed to reduce manual work, minimize errors, and improve transparency in the system. By following this methodology, the application ensures faster service, better coordination, and higher customer satisfaction. Overall, this methodology provides a clear framework for implementing the proposed system effectively and supports the digital transformation of traditional dress shops into an organized online delivery and rental service.

## II. RESEARCH PROBLEM

- Local dress shops do not have a proper online platform
- Customers cannot easily find nearby dress shops
- Delivery services are unorganized and manual

- Delivery time is not accurately estimated
- Dress rental records are maintained manually

### III. OBJECTIVES

- To develop a third-party application for dress delivery and rental services
- To provide an online platform for local dress shops
- To allow dress shops to upload and manage their collections digitally
- To enable customers to buy or rent dresses easily
- To provide real-time order tracking using GPS
- To estimate delivery time automatically based on location
- To improve customer satisfaction and service efficiency
- To help customers find nearby dress shops using location services

### IV. PROPOSED METHODOLOGY

The proposed methodology focuses on developing a third-party dress delivery and rental application that connects customers, local dress shops, and delivery partners through a single digital platform. The system is designed to simplify the process of dress selection, ordering, rental management, and delivery by using modern mobile and web technologies. Initially, users are required to register and log in to the application using secure authentication methods. Once logged in, the application requests permission to access the user's location. GPS technology is used to identify the current location of the user and display nearby dress shops available on the platform. This location-based approach helps users find suitable dress shops easily without manual searching. Dress shop owners can register as service providers and upload their dress collections along with details such as price, size, category, and availability. The system allows shop owners to manage both purchase and rental services digitally. Users can browse the collections, select the required dress, and choose either buying or renting options based on their needs. After the user places an order, the request is sent to the selected dress shop for confirmation. Once the shop owner confirms the order, the system automatically assigns the nearest available delivery partner. Real-time order tracking is enabled

using GPS, allowing users to monitor the delivery progress and view the estimated delivery time. The application supports multiple payment options, including online payments and cash on delivery, to provide flexibility and convenience to users. After successful delivery, users can provide feedback and ratings, which helps improve service quality. All user data, order details, payment information, and rental records are stored securely in the database. This proposed methodology ensures an efficient, transparent, and user-friendly system while supporting the digital growth of local dress businesses.

#### 1.1 System Overview:

### V. METHODOLOGY

The proposed system follows a third-party service model that connects local dress stores, customers, and delivery partners through a single digital platform. The application works

#### Page 2

similar to food delivery platforms, where dress shops act as vendors and users act as customers. The system supports both dress purchase and dress rental services. The main objective is to provide a fast, reliable, and location-based dress delivery solution while enabling small and medium dress stores to expand their business digitally.

#### 1.2 System Concept & Application Model

The proposed application works as a centralized platform where nearby dress stores register, upload their collections, and receive orders from customers. Users can browse dresses, choose between buy or rent options, and place orders through the app. Real-time location tracking identifies nearby stores and calculates delivery time based on distance. This model ensures fast service, supports local businesses, and reduces unnecessary travel.

#### 1.3 Technology & Functional Features

The system uses GPS-based location services for store discovery and delivery tracking. Key features include user and vendor registration, dress listing, real-time order tracking, secure payment integration, rental duration management, and return handling. Admin controls ensure smooth monitoring of orders, users,

and transactions. These technologies improve efficiency, reliability, and user experience.

#### 1.4 Benefits to Users & Local Stores

Customers benefit from time savings, easy access to local fashion collections, affordable rental options, and doorstep delivery. Local dress stores gain increased visibility, higher sales opportunities, and digital transformation without heavy investment. The platform creates a win-win ecosystem for both users and retailers.



Fig 1.4 Working Model of Third-Party Dress Rental and

#### Delivery System

#### 1.5 Impact & Future Scope

The application promotes sustainable fashion by encouraging dress rentals and reducing unnecessary purchases. It strengthens local businesses while meeting modern consumer needs. In the future, features like AI-based dress recommendations, AR virtual try-on, subscription models, and eco-friendly logistics can be integrated to enhance scalability and innovation.

#### Final Project Summary

Overall, the proposed third-party dress delivery and rental application offer a smart, efficient, and sustainable solution to modern fashion consumption. By integrating technology with local retail networks, the system improves convenience, supports small businesses, and contributes to responsible fashion practices.

## VI. CONCLUSION

This project introduces a third-party dress delivery and rental application that transforms traditional dress shopping into a modern digital service. The system connects customers, local dress shops, and delivery partners on a single platform, making dress selection, ordering, rental management, and delivery simple and efficient. Location-based services help users identify nearby stores and estimate delivery time accurately, while real-time order tracking improves transparency and customer trust. Multiple digital payment options enhance convenience and security. The rental management module supports shop owners in maintaining proper records and avoiding availability errors. Overall, the application reduces manual work, supports the digital growth of small and medium dress shops, and provides customers with a fast, reliable, and user-friendly fashion service suitable for real-world implementation.

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