

DOOR DROP

By

Soumen Pal

(B.Tech 3rd Year, Enrollment No.: 12021002001029)

Under the Supervision of

Prof. Jyoti Khandelwal

Dept. of Computer Science & Engineering

University of Engineering & Management, Jaipur

Outlines

- ❖ Introduction
- ❖ Literature Review
- ❖ Objectives
- ❖ Proposed Model
- ❖ Experimental Setup
- ❖ Result Example
- ❖ Result Analysis
- ❖ Limitation
- ❖ Conclusion & Future Scope
- ❖ References
- ❖ Acknowledgement



Introduction

- In today's fast-paced world, convenience and security are paramount for both consumers and businesses.
- The e-commerce industry has experienced significant growth in recent years, leading to an increased demand for efficient and secure delivery services.
- Busy individuals or those who are frequently away from home may not be available to receive deliveries during regular business hours.
- Traditional delivery methods typically involve direct hand-off to the recipient, but this may not always be feasible or desirable.



Literature Review

Convenience and Flexibility:

- Consumers prioritize delivery services that offer convenience and flexibility.

Security:

- Package theft is a significant concern, and secure delivery solutions are needed.

User Empowerment:

- Consumers prefer companies that empower them with control over their delivery experience.

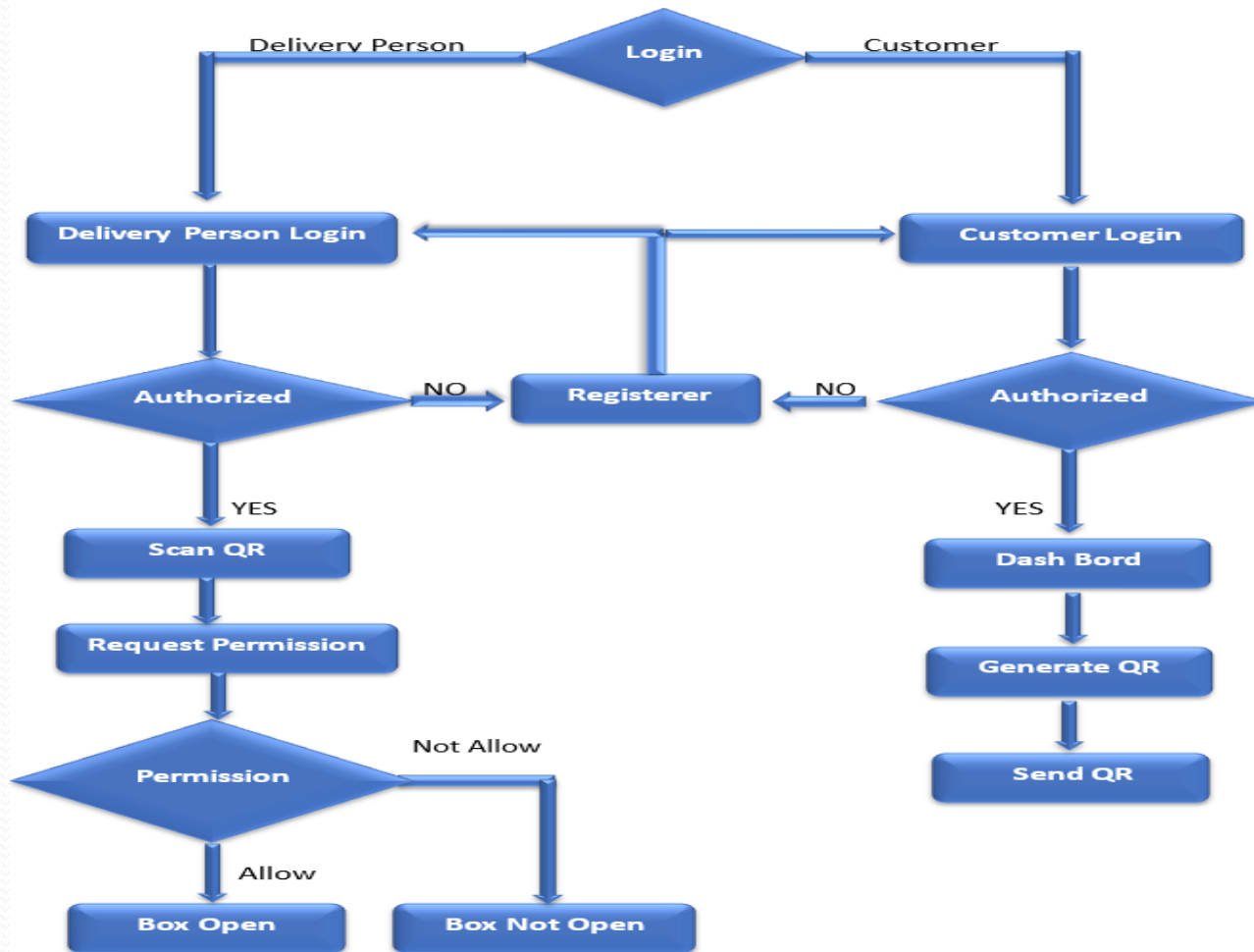


Objectives

- Revolutionize the delivery process by offering a convenient, secure, and flexible parcel drop system.
- Empower users to receive parcels at their own discretion, eliminating the need to be present during specific delivery windows.
- Minimize security risks by storing parcels in secure boxes accessible only with authorized access.
- Provide a user-centric approach that grants control over the delivery process, enhancing overall customer satisfaction.



Proposed Model




Experiment Set-up

- IDE: Visual Studio Code
- Android Studio Virtual Emulator
- Android 13 Enabled Device



Result Example

← User Login




Email

Password

Submit

New User? [Create Account](#)



Locked

Generate QR

Scan QR

Recent Deliveries

Order ID : 12398756	⋮
Delivery : 20/11/2023	
To : gopendu@gmail.com	Status : Delivered
Order ID : 97867863	⋮
Delivery : 12/8/2023	
To : spal101@gmail.com	Status : Delivered

← Generate QR

Name
Gopendu Manna

Email
gopendumanna@gmail.com

Phone
8480292678

Address
Srirampur,Dakshin Gobindapur, Sonarpur, Kol 700145, South 24 pgs, West Bengal


Order Quantity
2 - +

Total Amount
Rs. 999

3/9

Generate

← Your QR



Save QR

Share QR

Figure: Containing database results after adding product details

Result Analysis

Smart drop delivery boxes provide a convenient and secure solution for package reception, reducing missed deliveries and enhancing customer satisfaction. Their advanced security features, including biometric authentication and real-time monitoring, ensure package safety. The integration of IoT technology facilitates seamless communication and real-time tracking, empowering customers to monitor their packages.



Limitation

- The system requires the installation of secure boxes at designated locations, which may not be feasible in all areas.
- The system relies on users providing accurate access codes, which could lead to security breaches if compromised.
- Smart delivery drop systems rely on seamless Internet connection, which may sometimes fail.



Conclusions & Future Scope

- The Secure Delivery Drop System with User Authorization project has demonstrated the potential to revolutionize delivery services by offering a convenient, secure, and flexible option for both consumers and businesses.
- The system addresses the shortcomings of traditional delivery methods and provides a more user-centric approach.
- ❑ **The future scopes are :**
 - Integration with smart home technologies for automated access and security.
 - Development of mobile app for enhanced user control and parcel tracking.



References

- **Building user interfaces with flutter :**
<https://docs.flutter.dev/ui>
- **Building robust Android application:**
<https://developer.android.com/docs>
- **Global connectivity through https:**
https://pub.dev/packages/uni_links/example

Acknowledgement

First of all, we would like to thank, Prof. Jyoti Khandelwal, who was a constant source of inspiration. He encouraged us to think creatively and motivated us to work on this assignment without giving it a second thought. He expressed full support and provided us with the different teaching aids with guidance that were required to complete this assignment. He believed in us in each and every step of the process. We would like to thank some helpful seniors who have helped us each time whenever we got stuck. We are also thankful to every member of this group. It was each and every individual's contribution that made this assignment a success.



Thank You!