# HLW

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Problem Statement : PS6

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# Executive Summary

Our solution is developed by using **Flutter**, which compile **cross-platform application**. As such, our solution works on macOS, Windows, web browser, android and ios.

It is catered for **4 main user types**: 1. Requestor

2. Designated Officer
3. Customer Signing Officer
4. AETOS Officer

**Each of them will have different functions** in their user interface upon logging in to their accounts.

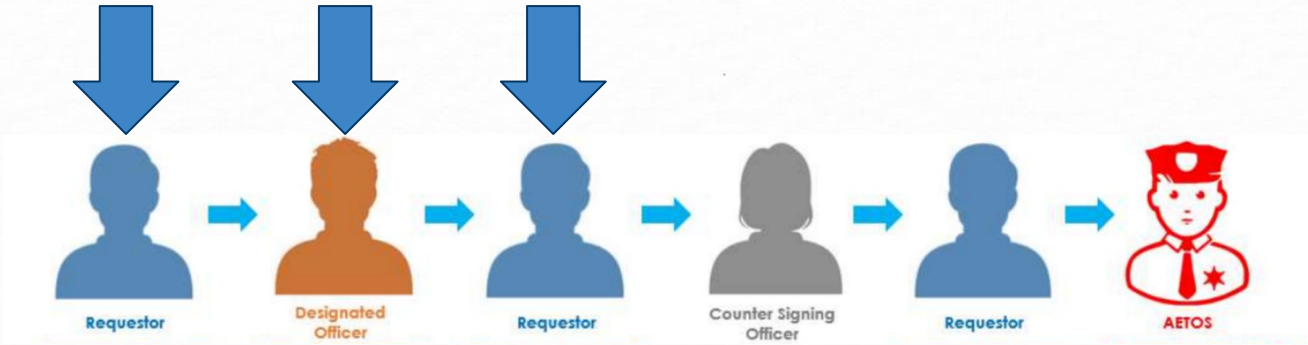
# Executive Summary

**Blockchain** can be leveraged in this context to improve the **security aspect of the EPON process**. All transaction details involved in the process of EPON will be **hashed by sha256** standard and can only be decrypted by people in the company who holds the corresponding public key.

Process 1: Requestor will **fill a request** for E-PON

Process 2: Designated officer will **approve the request** if the requirements are met

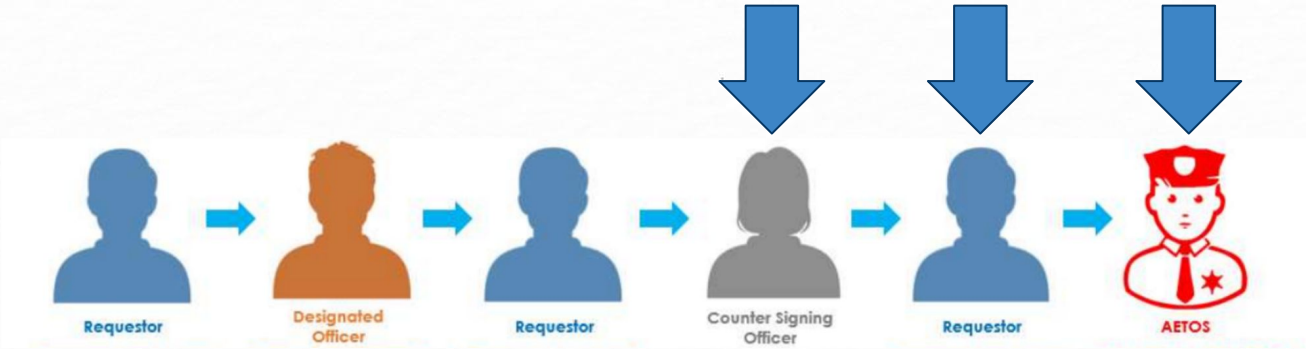
Process 3: Once the **approval has been granted**, the requestor will receive an **email notification**. The requester can then **share the E-PON** to a **transporter** for successive steps.



Process 4: Counter Signing Officer will check the items, and **take a photo as evidence**.

Process 5 & Process 6: After doing random check, **AETOS will take a photo** and end the case

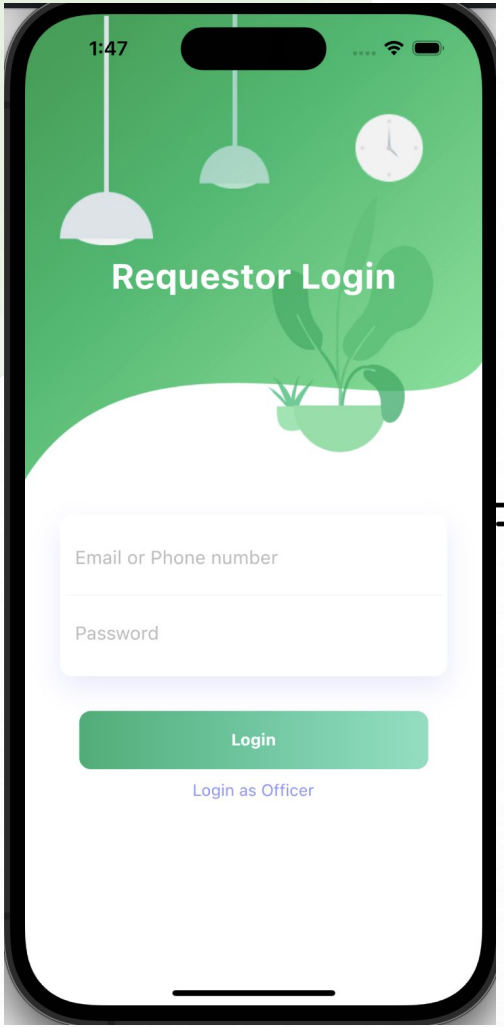
Requestor will then **receive email with well-formatted E-PON** attached, as for audit purpose.

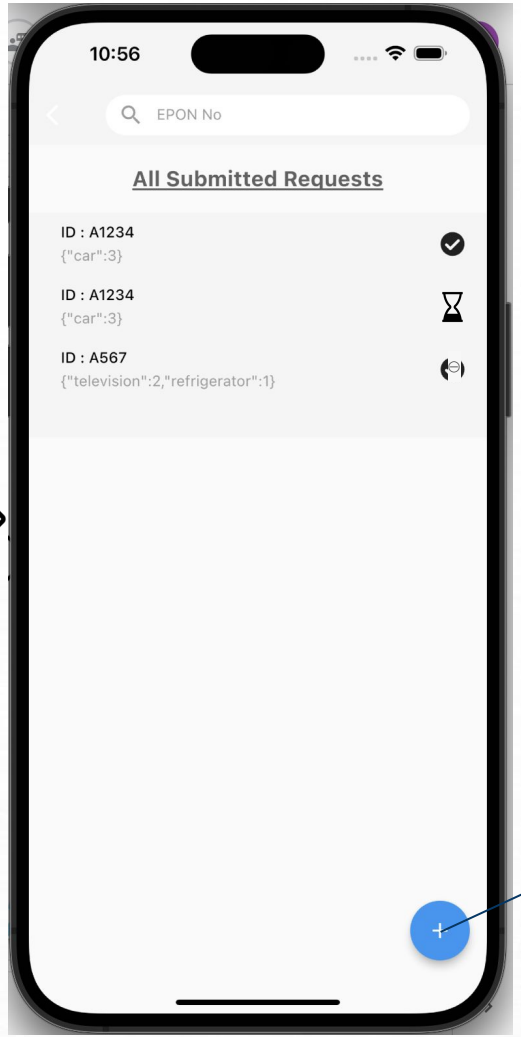


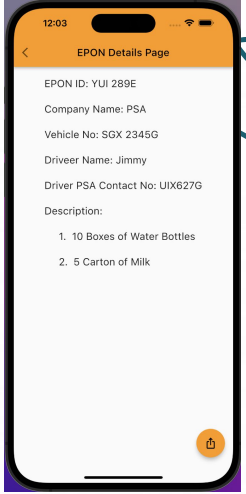
# Benefits of Our Solution

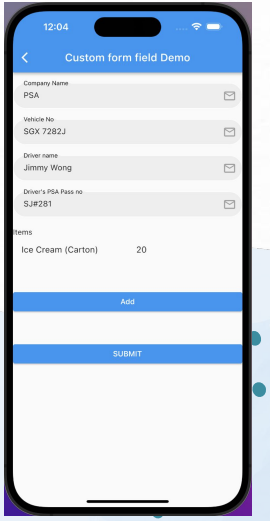
- Cross-platform compatible
- The requestor need not to be physically presented
- Easy to track the record

# Requestor's UI

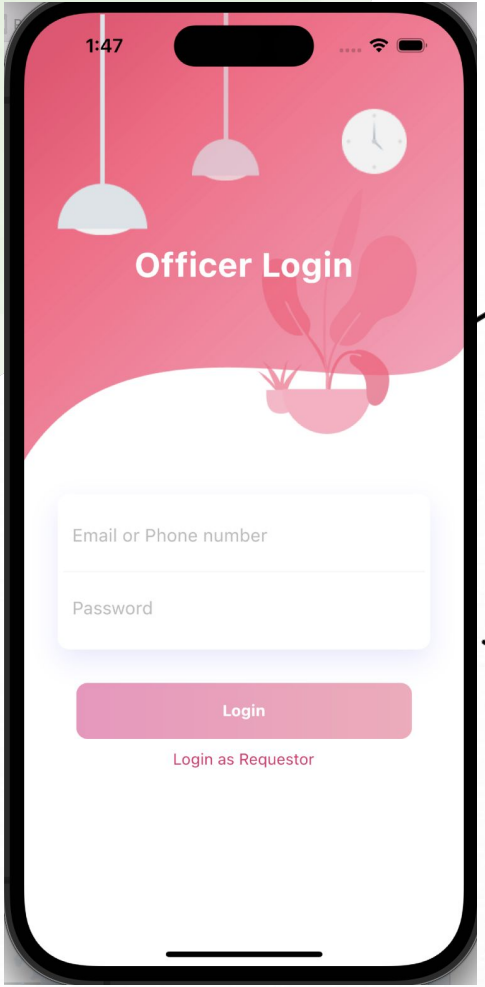

1:47
Requestor Login
Email or Phone number
Password
Login
Login as Officer

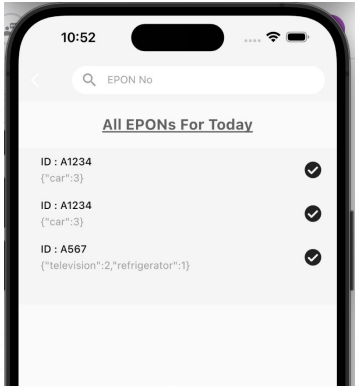

10:56
EPON No
All Submitted Requests
ID : A1234
{"car":3}
ID : A1234
{"car":3}
ID : A567
{"television":2,"refrigerator":1}

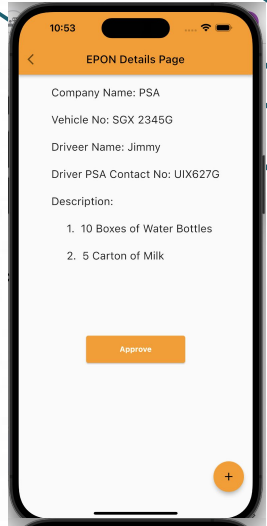

12:03
EPON Details Page
EPON ID: YUI 289E
Company Name: PSA
Vehicle No: SGX 2345G
Driveer Name: Jimmy
Driver PSA Contact No: UIX627G
Description:
1. 10 Boxes of Water Bottles
2. 5 Carton of Milk


12:04
Custom form field Demo
Company Name
PSA
Vehicle No
SGX 7282J
Driver name
Jimmy Wong
Driver's PSA Pass no
SJ#281
Items
Ice Cream (Carton)
20
Add
SUBMIT

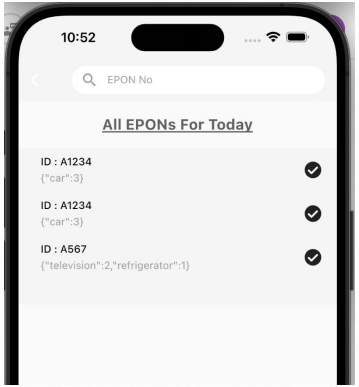
# Officer’s UI

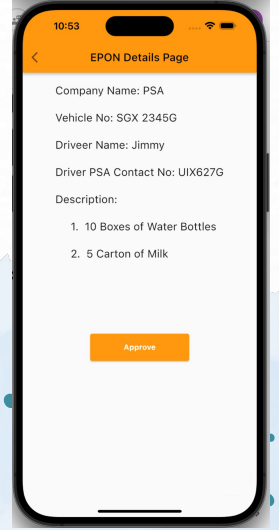



## Counter Signing Officer / AETOS




## Designated Officer

# THANKS

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# Reference


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- https://github.com/letsar/flutter_slidable
- https://medium.flutterdevs.com/slidable-in-flutter-33193e2f1108
- https://github.com/FortAwesome/Font-Awesome
- https://github.com/MfgLabs/mfglabs-iconset
- https://www.fluttericon.com/