



ML POWERED LABEL SCAN & PRINT

CASE STUDY

Enterprise Mobility Solutions @SOFTSERV INC.

The Client

GENUS POWER INFRASTRUCTURES LTD OFFERS INNOVATIVE SOLUTIONS IN THE **POWER SECTOR**.

THE **METERING SOLUTION DIVISION** COVERS A WIDE RANGE OF ELECTRICITY METERS, INCLUDING SINGLE PHASE, THREE PHASE, CT OPERATED, ABT & GRID METERS, AND SMART METERS.

THE **ENGINEERING CONSTRUCTION & CONTRACTS DIVISION** HANDLES PROJECTS LIKE SUB-STATION ERECTION, TRANSMISSION LINES, RURAL ELECTRIFICATION, AND NETWORK REFURBISHMENT.



CUSTOMER CHALLENGE



THE CUSTOMER NEEDED



A **'BARCODE SCANNER'** CAPABLE OF READING A PRE-PRINTED **'QR CODE LABEL'** CONTAINING MULTIPLE DATA SETS.



'GENERATE' A VISUALLY SIMILAR LABEL PROMPTLY AFTER SCANNING.





THERE IS **NO EXISTING** HARDWARE THAT COMBINES BARCODE SCANNING & PRINTING FUNCTIONALITIES.



50+ UNITS OF SUCH HARDWARE WERE REQUIRED WHICH MAKES IT **ECONOMICALLY IMPRACTICAL.**



SOLUTION BLUEPRINT



 Crafted an **Android Mobile** app to capture images of pre-printed labels

 Utilized **Machine Learning** to analyze the captured image & extract the embedded data

 Crafted a label of matching dimensions, with **effective design principles**

Paired a **Direct Thermal Bluetooth** Portable Printer with the mobile app

Empowered users to indicate their preferred **label quantity** through the app's interface

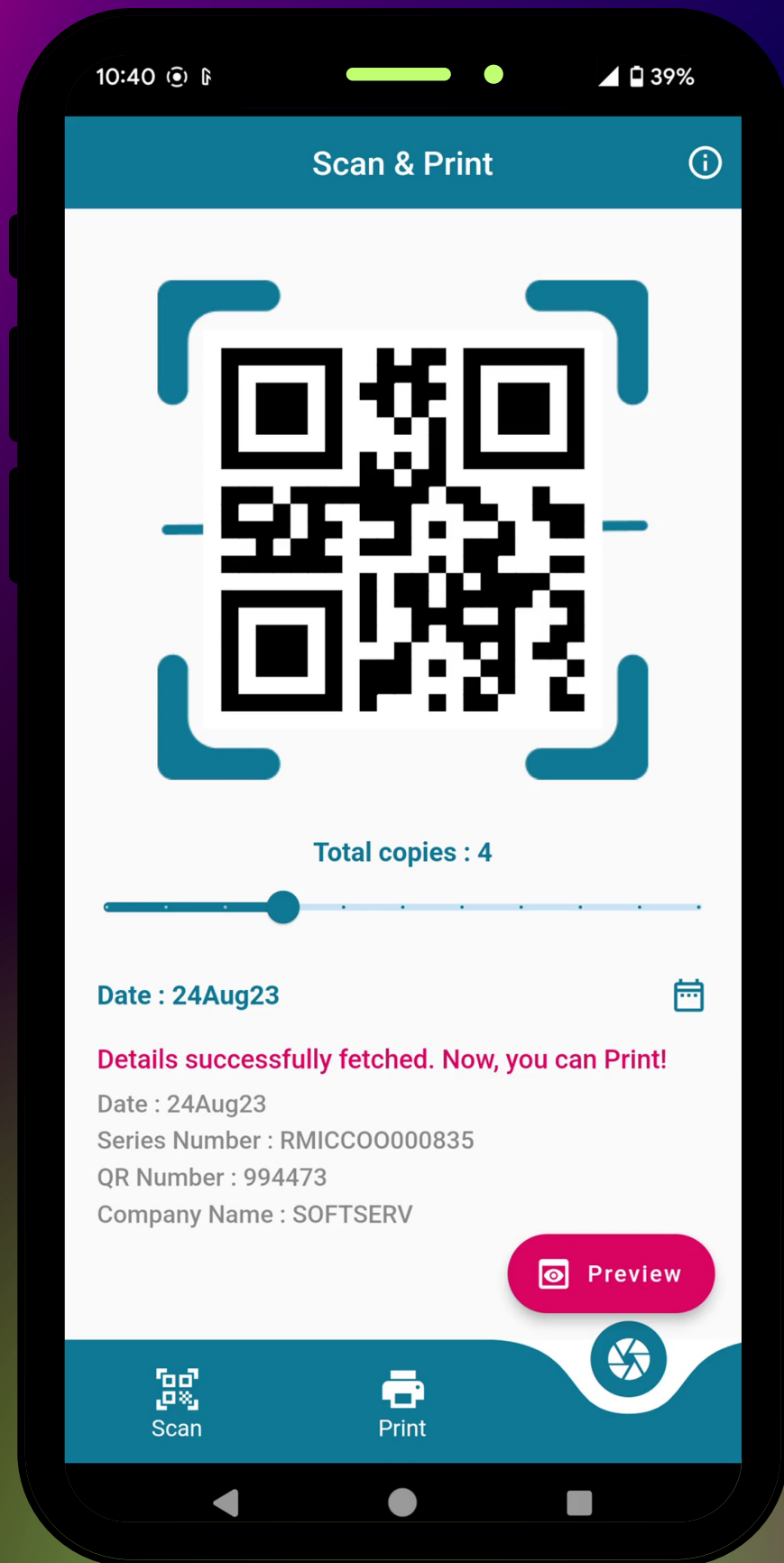
Printed labels using the **portable printer** according to the user's quantity selection

A CLOSER LOOK





- Launch** Mobile App
- Click **Capture**
- Capture an image** of the pre-printed label
- Crop** the image, ensuring a **clear focus**
- Verify the retrieved data & **Preview** the label
- Specify the desired label **quantity** for printing
- Click on **Print** and Select the Printer
- Get the labels** from Printer



ALTERNATIVE SECTORS

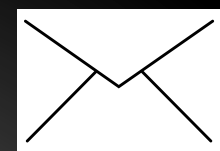


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- Event Management
- Shipping & Logistics
- HealthCare
- Manufacturing
- Food Services
- Field Services
- Asset Tracking

EXPLORE DETAILS, CONNECT NOW



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