ANDROID PRODUCT / THERMAL PRINTING

KODRA

Small formats.
Real print constraints.

KODRA turns service information into labels and receipts for practical maintenance and retail workflows.

Built around physical dimensions, readable service details, barcode placement and printer-language handling.

THE PRODUCT IN ONE WORKFLOW

01	02	03
SERVICE DATA	**LAYOUT**	**PRINT**
Job information	Size + placement	Labels + receipts

Workflow illustration; not an app screenshot.

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POS Maintenance Department Manager
Practical product design & AI-assisted development

01 / THE OPERATIONAL PROBLEM

A label is a physical interface.

A useful service label must fit the stock, keep key information readable and give the barcode enough space. A layout that looks good on a screen still needs to work on paper.

01

Different media sizes

Label dimensions change the space available for text, branding and barcode placement.

02

Dense service information

Customer details, repair notes and amounts compete for a very small printable area.

03

Printer-specific behavior

Command language, paper width, feed and gaps affect the actual result.

PRODUCT DECISION

Design around the printed output: define the media first, then arrange the information and refine against physical print constraints.

02 / HOW KODRA APPROACHES THE WORK

One workflow. Two output needs.

The project combines service-data entry with label and receipt layouts, while accounting for the target printing scenario.

SERVICE LABELS

Compact identification and service information arranged within the selected sticker dimensions.

RECEIPTS

A separate document format for store and transaction information on receipt paper.

01 **Layout controls**

Dimensions, margins, typography, alignment, barcode position and date/time.

02 **Printer languages**

ESC/POS and CPCL are separate command-language scenarios; each needs suitable hardware and settings.

03 **Iterative refinement**

Physical print feedback informs spacing, width, feed behavior and information hierarchy.

Compatibility is configuration-dependent; this case study does not claim support for every printer or media size.

03 / SEE THE OUTPUT LOGIC

Service details, with a clear hierarchy.

Synthetic output specimens - explanatory layouts, not app screenshots or photographs of physical prints.

SERVICE LABEL / EXAMPLE

DEMO REPAIR STORE

JOB: DEMO-001

Customer: Sample customer

Phone: 000 000 0000

Issue: Printer inspection

Accessories: Charger

Cost: EGP 0.00 Deposit: EGP 0.00



DEMO-001 01 NOV 2026 / 10:30 AM

RECEIPT / EXAMPLE

DEMO STORE

Service receipt

Job: DEMO-001

Inspection EGP 0.00

Total EGP 0.00

Deposit EGP 0.00

Balance EGP 0.00

Sample data only

A Identify

Store and job details lead.

B Explain

Service information stays grouped.

C Retrieve

Barcode and date support lookup.

Illustrations are not to physical scale. These specimens do not establish printer output quality, scan performance or supported field limits.

04 / MY ROLE & WHAT THIS WORK SHOWS

Maintenance experience. Applied product thinking.

I translated workshop needs into an Android printing workflow, developed it with AI assistance and refined the layouts through physical-hardware feedback.

01 Workflow & requirements

Defined the service information, output priorities and practical constraints that the product needed to address.

02 Implementation & iteration

Worked on Android interaction, sizing rules, printer handling and repeated layout improvements.

03 Output quality focus

Reviewed margins, text hierarchy, alignment and barcode placement against the constraints of small-format printing.

EVIDENCE & SCOPE

Project scope and hardware iteration are described by the project owner. No independently verified adoption, time-saving or financial figures are claimed. Visual examples are synthetic.

Customer information, credentials and internal business records are excluded. This portfolio is a product case study, not a device-certification or universal-compatibility statement.

Discuss the project via the LinkedIn profile hosting this portfolio.