

SME POS Front-End (Flutter) & UI / UX Design

Documentation from the **front-end programmer & designer** side — color palette, typography, spacing, components, mapping to **Flutter box widgets**, and the **code implementation**: theming, reusable widgets, UI state, navigation & responsiveness.

Flutter · Dart

ThemeData

Color Palette

Typography

Reusable Widgets

Responsive

State (UI)

Mobile + Web



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v1.0

Design Principles & Color Palette

Clarity

The cashier must read fast — clear hierarchy, prices & totals stand out.

Trust

Blue as the primary color conveys a reliable & professional feel for transactions.

Feedback

Clear status: green = success, red = danger, amber = caution.

Primary & Brand

Brand / Primary #003D9B Primary actions, totals	Accent #0052CC Links, active icons	Surface Tint #E1E8FA Cards, sections	Surface Soft #F2F6FF Soft background
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Semantic

Success #1FAD55 Success, synced	Success BG #E1FFE9 Success badge	Danger #BA1B1B Delete, error	Warning #F59E0B Caution
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Neutrals

Ink / Text #15172B Primary text	Body #37373D Paragraph text	Muted #73737B Secondary text	Border #E3E6EE Lines & dividers
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Token	Hex	Usage
color.brand	#003D9B	App bar, primary buttons, prices & totals
color.accent	#0052CC	Links, active icons, web highlights
color.success	#1FAD55	Payment success, "Synced" status
color.danger	#BA1B1B	Delete, destructive warnings, "Local only" status
color.surface	#E1E8FA	Card background & blue-tinted sections

Typography

Typeface: **Plus Jakarta Sans** — geometric, friendly, highly legible for numbers (key for a POS). Currency figures use *tabular figures* so price columns align.

Display / 28·800	Payment Successful
H1 / 22·800	Transaction History
H2 / 18·700	Cost Summary
Body / 14·400	Product name, description, form input labels.
Caption / 11·500	SKU · category · timestamp
Price / 22·800	Rp 194,250

Scale (sp)

28 · 22 · 18 · 16 · 14
· 12 · 11

Ratio ±1.25 (major third)

Weight

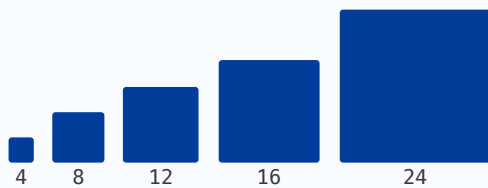
400 Regular · 500 Medium ·
600 SemiBold · 700 Bold · 800
ExtraBold

Rule

Totals & prices are always
Bold/ExtraBold + brand color
for emphasis.

Spacing, Radius & Elevation

Spacing scale (4pt grid)



Card padding 16, gap between items 12, screen margin 16.

Corner radius



sm 6 · md 12 · pill 99

Elevation



card-1 · dialog/sheet-2

Box Widget Types in Flutter

Every visual element in SME POS maps to the right Flutter *box widget*. These are the box types used and their role in the design system:

Widget	Role in the Design System	Example in app
Container	All-purpose box: color, padding, margin, radius, border, shadow in one widget	Product card, status badge
Card	Elevated surface with built-in Material radius & shadow	"Cost Summary", Sync Analytics
Material	Surface + ink ripple for tap feedback	Buttons, tappable list items
DecoratedBox	Decoration only (gradient/border/shadow) without layout	Blue gradient header on landing
ClipRRect	Clips a child to a radius (rounded photos)	Product photo, receipt thumbnail
SizedBox	Fixed-size box / spacer	Spacing between elements, button height
Padding	Adds inner space without decoration	Screen padding & card content
AspectRatio	Locks the box aspect ratio	1:1 product photo grid
ConstrainedBox	Min/max size limits	Maximum dialog width

Product card anatomy & its widget mapping



← Container + Padding + Row

```

Container(
  padding: EdgeInsets.all(16),
  decoration: BoxDecoration(
    color: Colors.white,
    borderRadius: BorderRadius.circular(12),
    boxShadow: [shadowCard],
  ),
  child: Row(children: [
    ClipRRect(...), // photo
    Expanded(...), // name+price
    FilledButton(...) // action
  ]),
)

```

Component Library

Buttons



Status Badges & Chips



Text Field

e.g. Palm Sugar Milk Coffee

PRD-001

Default · Focused (brand border). Label on top, helper below.

Bottom Navigation

The active item uses the success color + bold.

Confirmation Dialog (recurring pattern)



Save Changes?

Positive action → brand "Save" button + ghost "Cancel".

Save

Cancel



Delete Product?

Destructive action → danger "Delete" button + ghost "Cancel".

Delete

Cancel

Front-End Implementation (Flutter)

The design system above is translated directly into Flutter code: color & text tokens centralized via ThemeData, reusable components, reactive UI state, navigation, and a responsive mobile ↔ web layout.

Design tokens → code

```
class AppColors {
  static const brand = Color(0xFF003D9B);
  static const accent = Color(0xFF0052CC);
  static const success = Color(0xFF1FAD55);
  static const danger = Color(0xFFBA1B1B);
  static const surface = Color(0xFFE1E8FA);
}

final appTheme = ThemeData(
  colorSchemeSeed: AppColors.brand,
  fontFamily: 'PlusJakartaSans',
  scaffoldBackgroundColor: Colors.white,
);
```

Reusable widget

```
class PrimaryButton extends StatelessWidget {
  final String label;
  final VoidCallback onTap;
  const PrimaryButton(this.label,
    {required this.onTap});

  @override
  Widget build(BuildContext c) => FilledButton(
    style: FilledButton.styleFrom(
      backgroundColor: AppColors.brand,
      minimumSize: const Size.fromHeight(48),
      shape: RoundedRectangleBorder(
        borderRadius: BorderRadius.circular(12)),
    ),
    onPressed: onTap,
    child: Text(label),
  );
}
```

UI State

Riverpod /
StatefulWidget
for cart qty,
"Manage Stock"
toggle & PIN input
— reactive
rebuilds.

Navigation

4-tab
BottomNavigationBar
+ named routes
(GoRouter); dialogs via
showDialog.

Responsive

LayoutBuilder
+ 600 breakpoint:
the mobile layout
widens
automatically to
web.

Form Validation

TextFormField
+ validator; the
error state uses
the danger color.

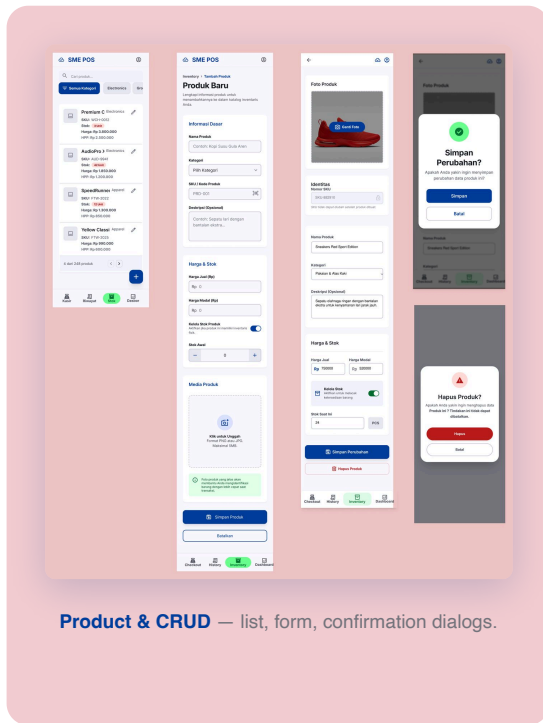
Widget tree — Checkout screen (concise)



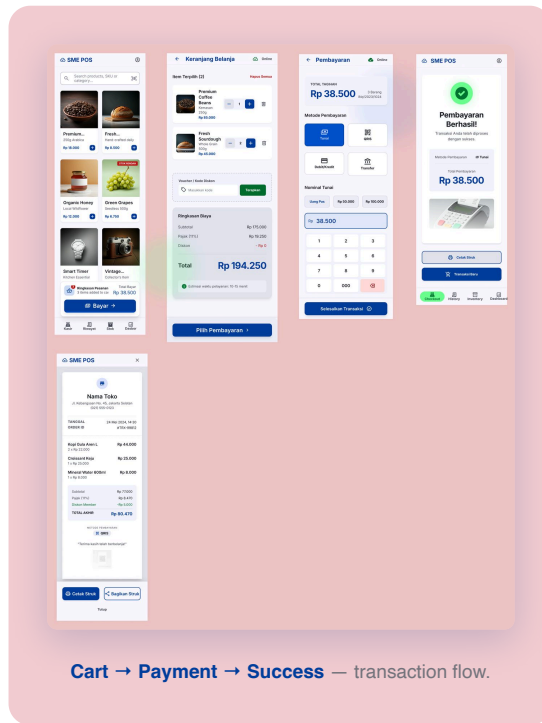
Each visual component = one box widget: Container (card), Card (summary), ClipRRect (photo), SizedBox (spacing)
— consistent with the previous pages.

Screen Showcase — Mobile

The design system applied to the core flows: product catalog & CRUD, then cart → payment → receipt.

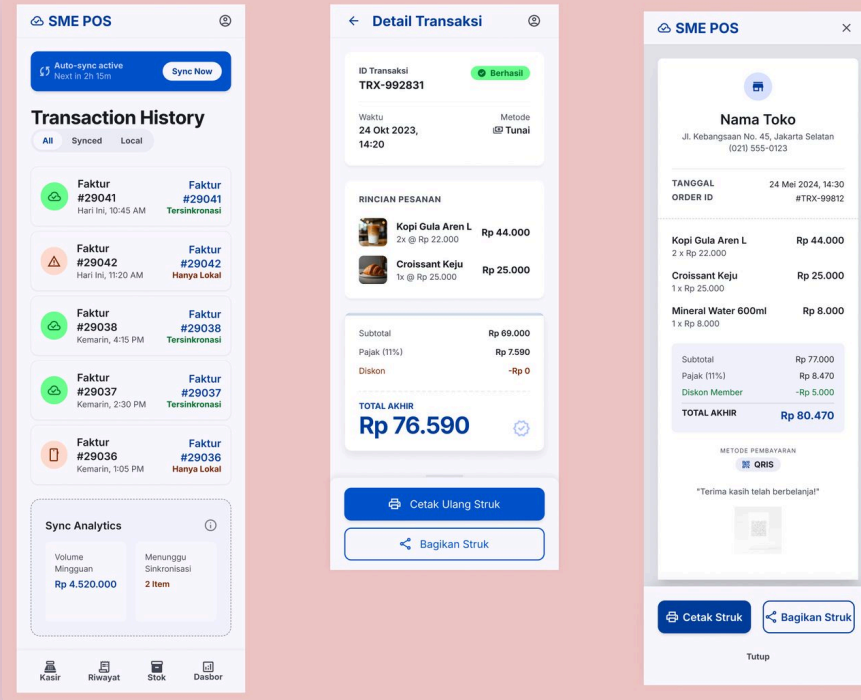


Product & CRUD — list, form, confirmation dialogs.

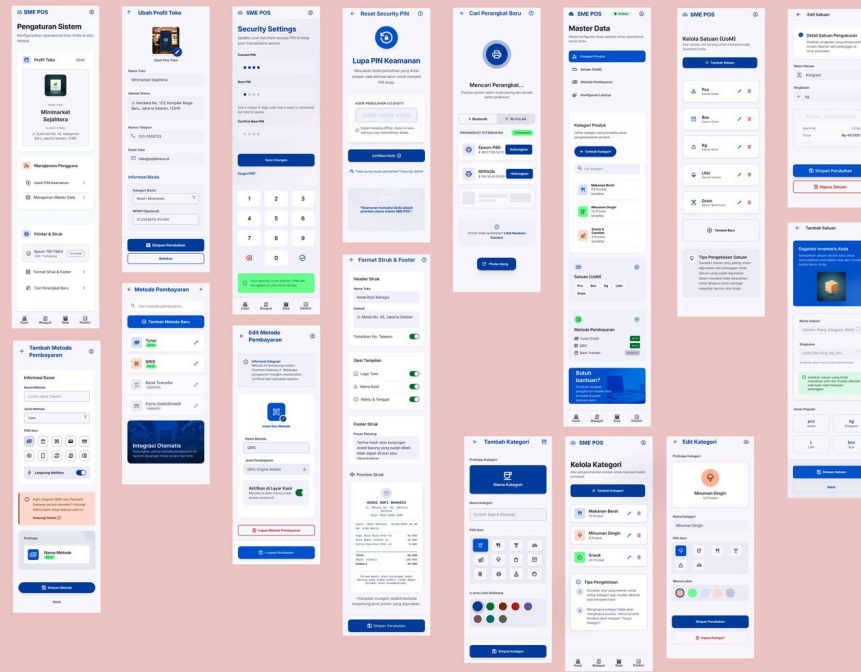


Cart → Payment → Success — transaction flow.

Screen Showcase — History & Settings



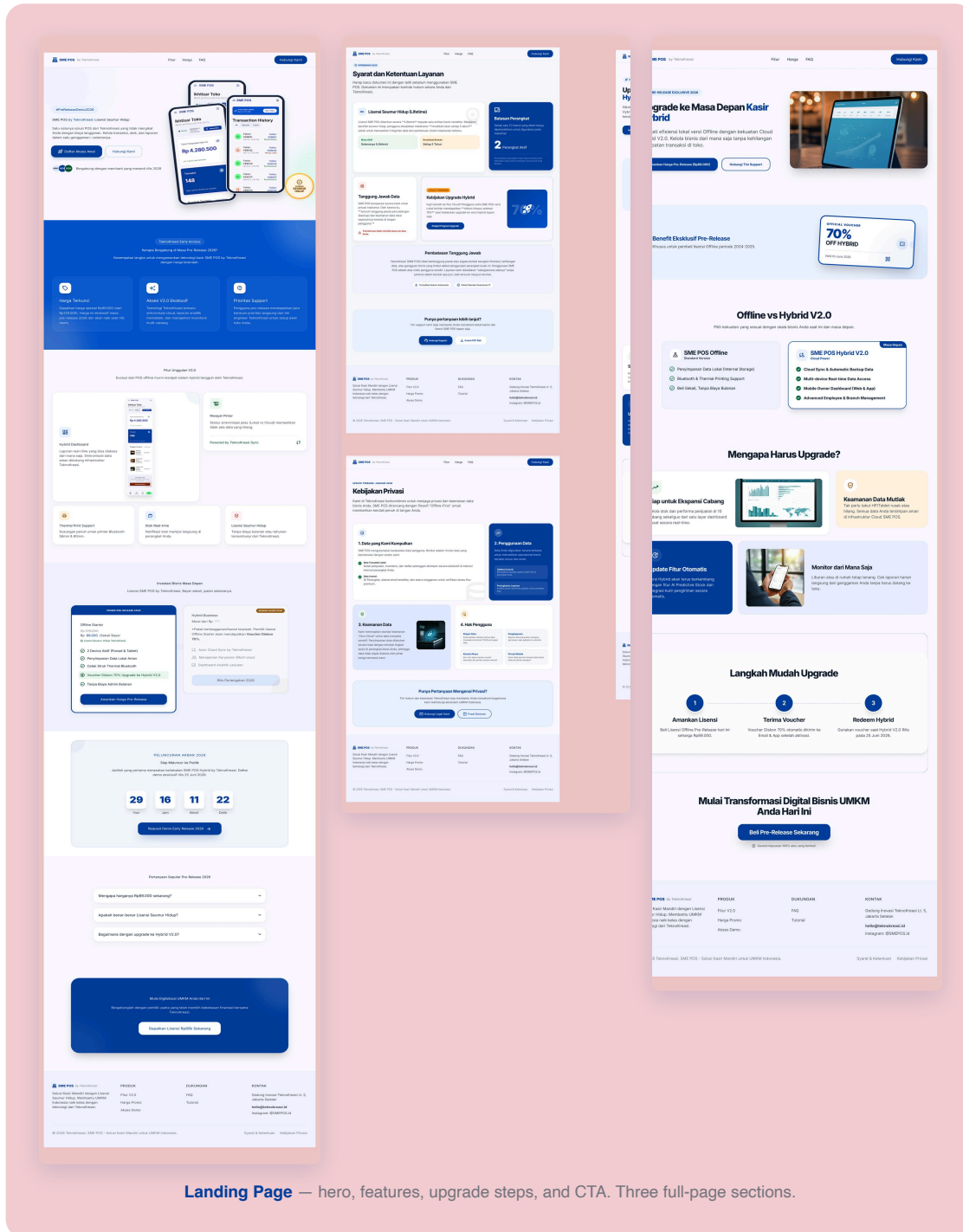
Transaction History & Detail — sync status, breakdown, receipt.



Settings, Security PIN & Master Data — consistent cards, forms, colored categories.

Screen Showcase — Web Landing Page

The web version (marketing/onboarding) uses the same visual language: brand blue, tinted cards, a gradient hero, and CTAs consistent with the mobile app.



Landing Page — hero, features, upgrade steps, and CTA. Three full-page sections.

Consistency

Colors, radius, buttons & typography identical across mobile ↔ web.

Hierarchy

Brand gradient hero → soft card sections → high-contrast CTA.

Accessibility

Text contrast ≥ 4.5:1, tap targets ≥ 44px, status not conveyed by color alone.