

Komponen dalam Mendesain Aplikasi

TI2137 - Pengembangan Aplikasi Mobil Front-End



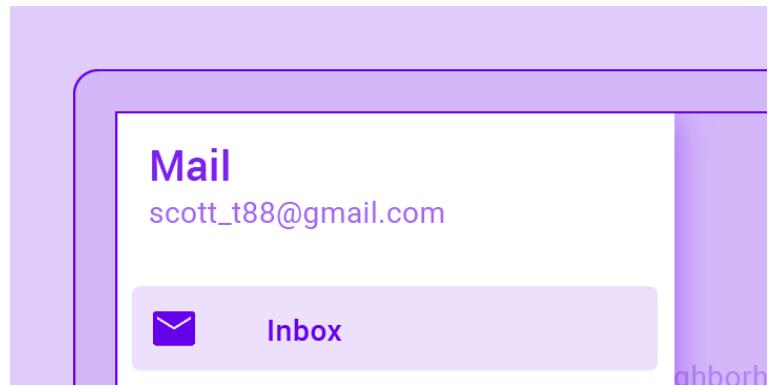
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PRODI. TEKNIK INFORMATIKA (S-1)

Team Teaching

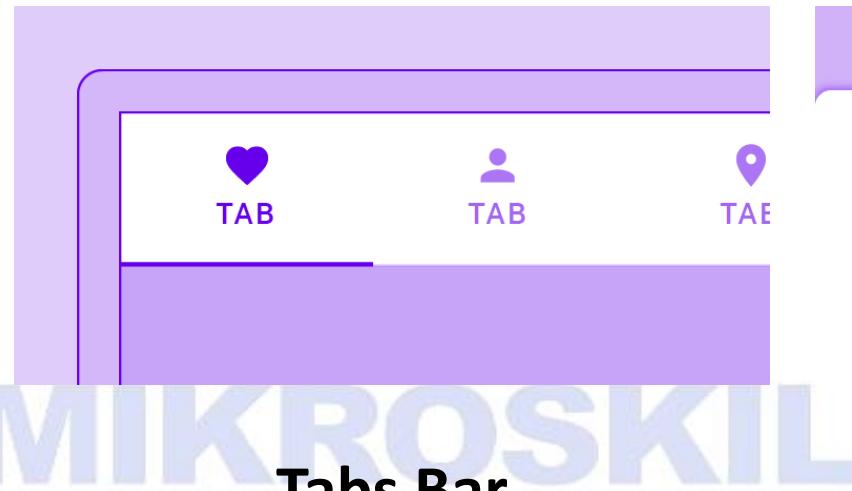
- Sunaryo Winardi, S.Kom., M.TI.
- Sio Jurnalis Pipin, S.Kom., M.Kom.
- M. Taufiq Hidayat Pohan, S.Kom.
- Richy Rotuahta Saragih, S.Kom.



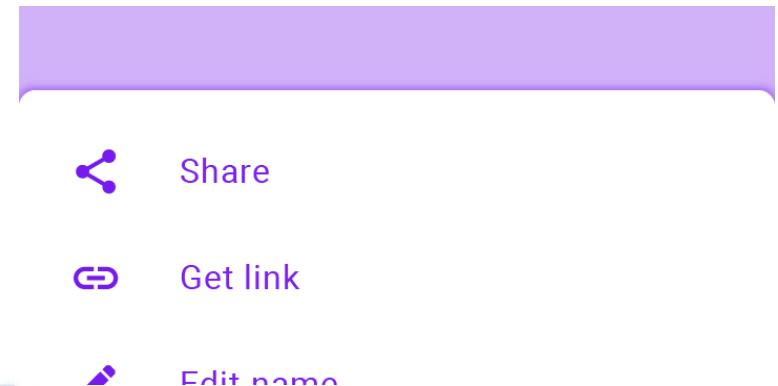
Komponen dalam Mendesain Aplikasi Part. 6



Navigation Drawer

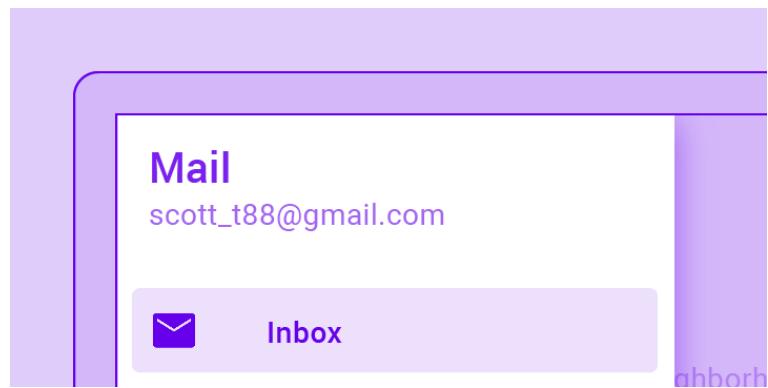


Tabs Bar



Sheets:Bottom

Komponen dalam Mendesain Aplikasi Part. 6

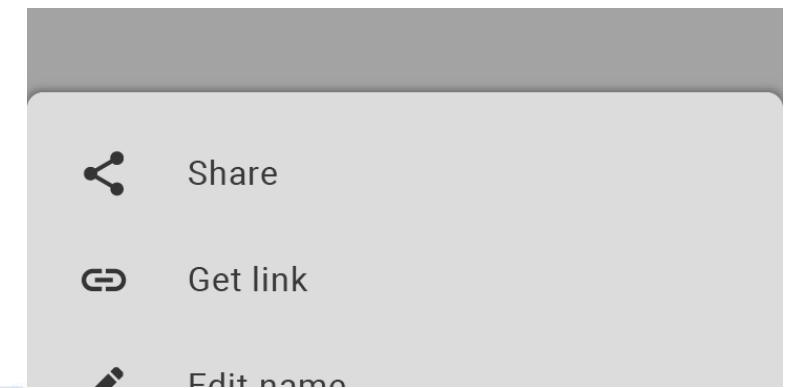


Navigation Drawer



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Tabs Bar



Sheets:Bottom

Navigation Drawer

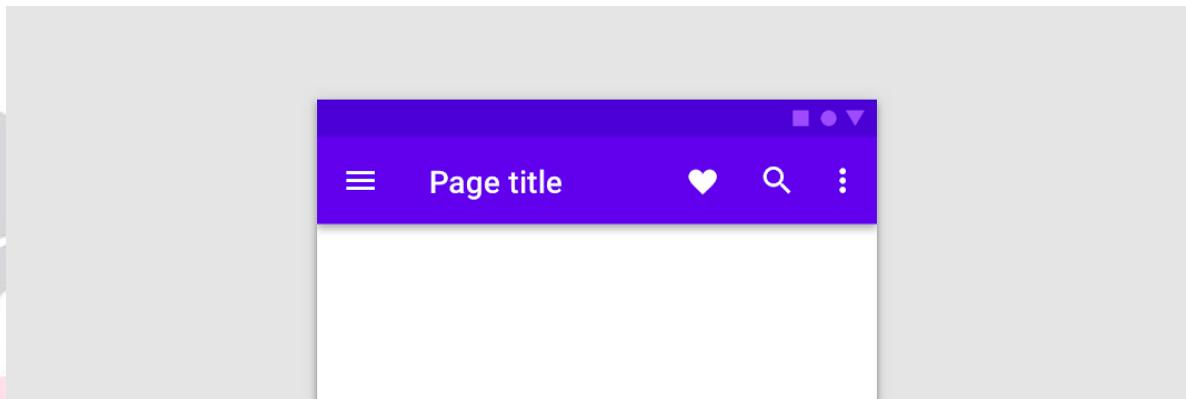


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Navigation drawers adalah...

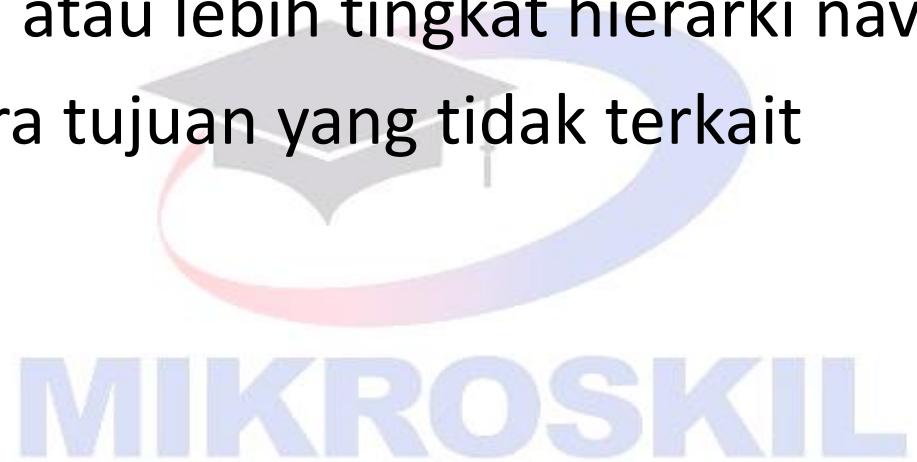
- Menyediakan akses ke tujuan dan fungsionalitas aplikasi, **seperti beralih akun.**
- Dapat secara permanen di layar atau dikendalikan oleh ikon menu navigasi



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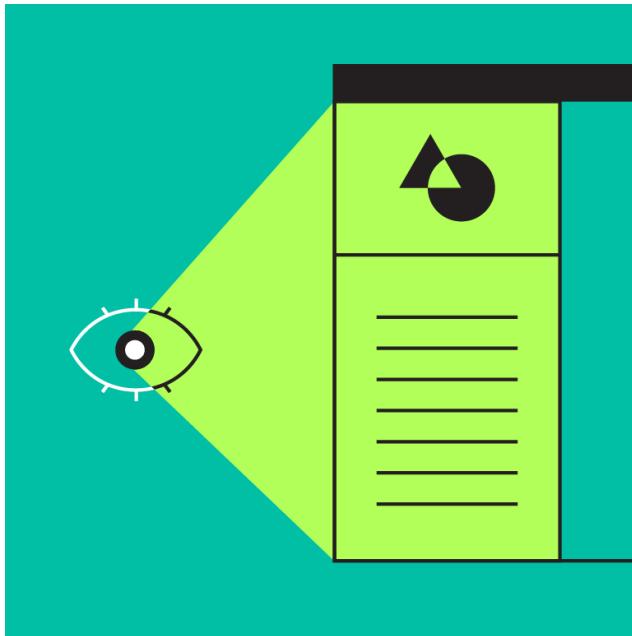
Direkomendasikan untuk

- Aplikasi dengan lima atau lebih tujuan tingkat atas
- Aplikasi dengan dua atau lebih tingkat hierarki navigasi
- Navigasi cepat antara tujuan yang tidak terkait

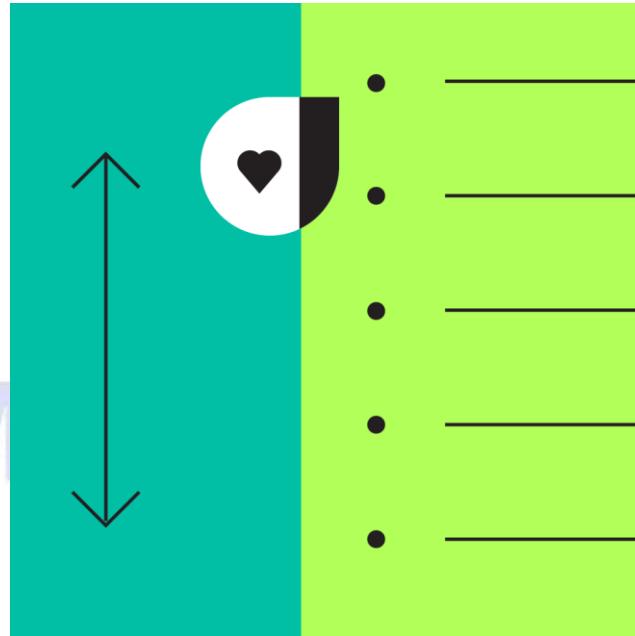


Principle of Navigation Drawers

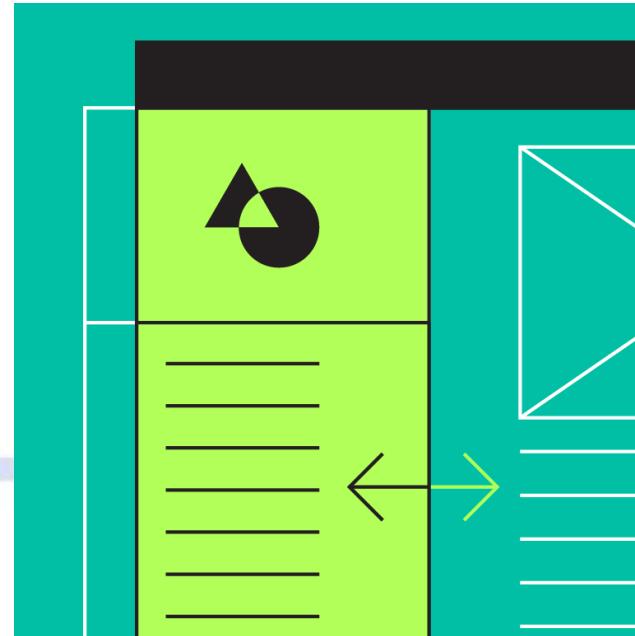
Identifiable



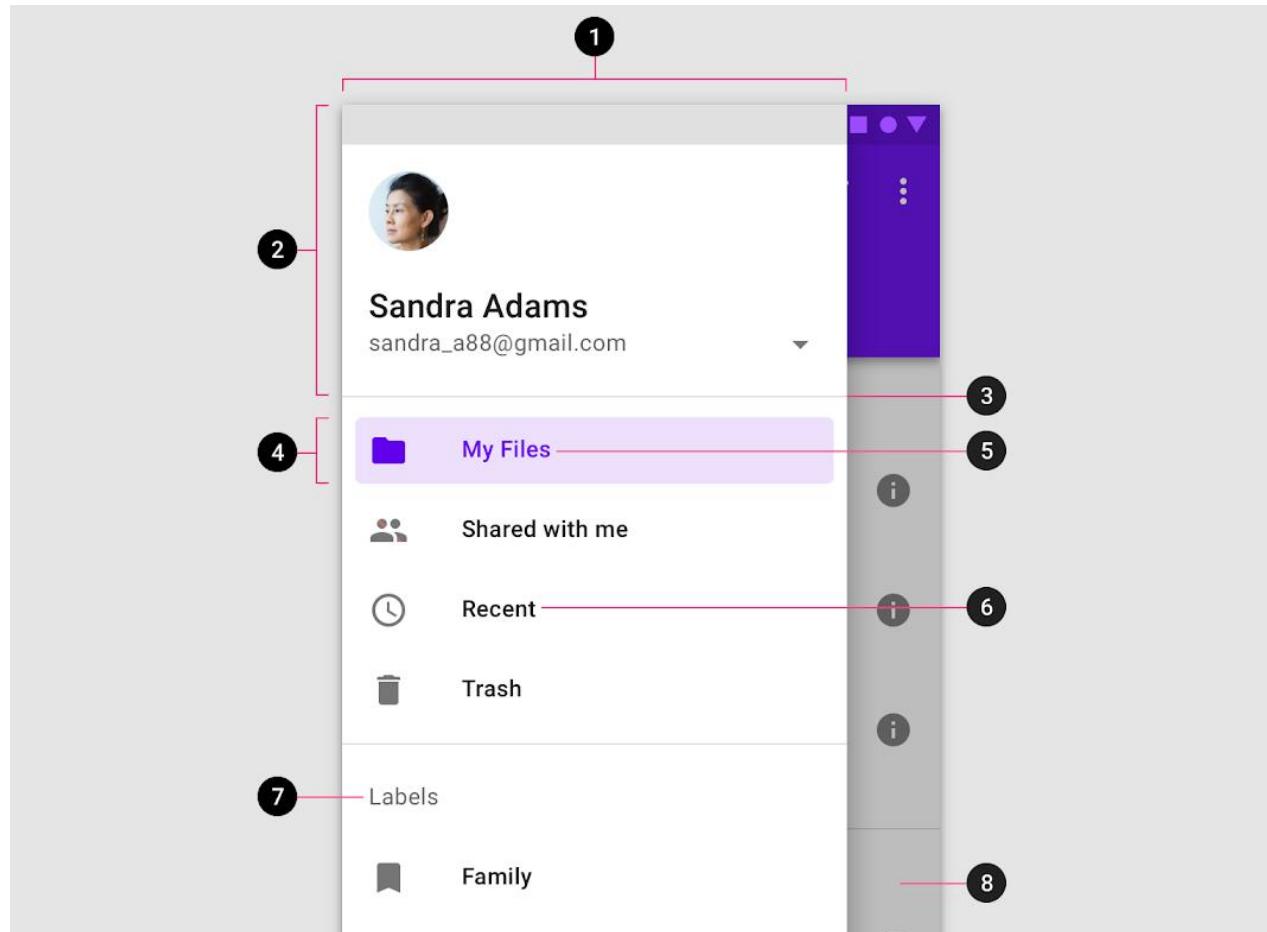
Organized



Contextual



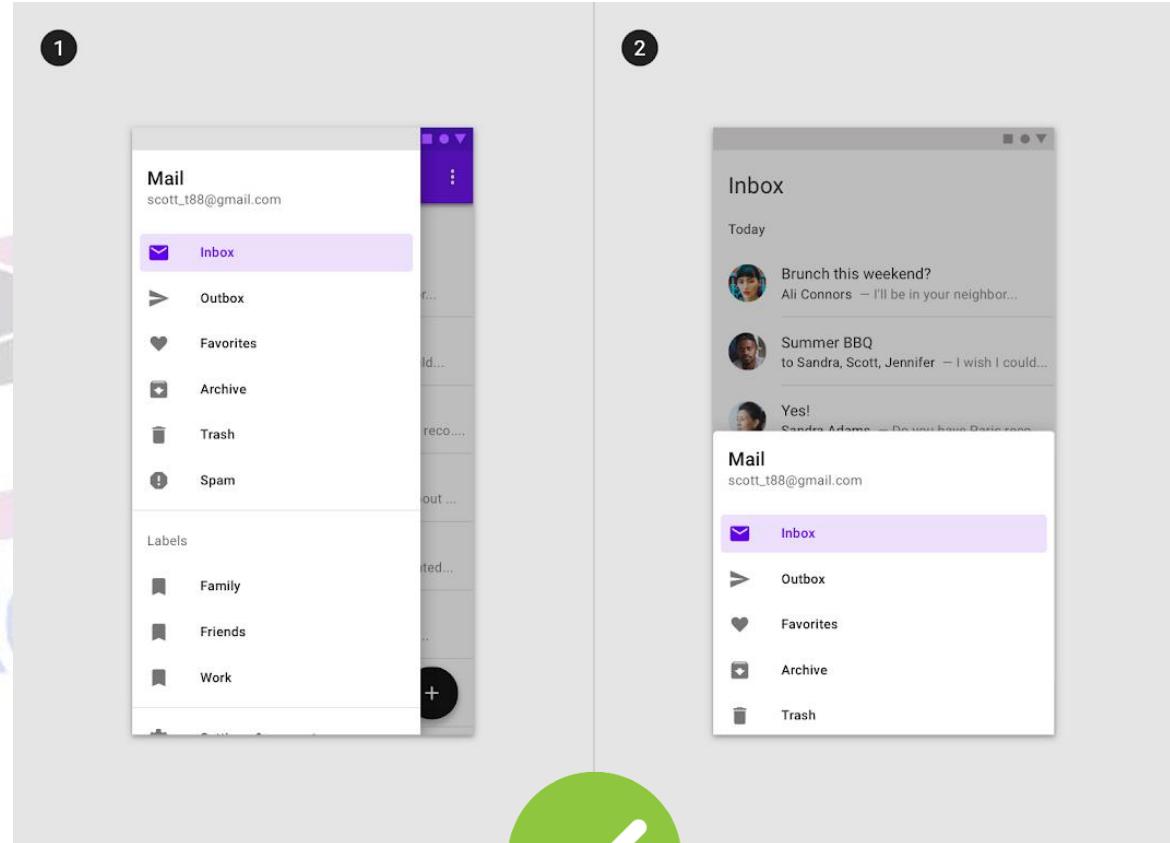
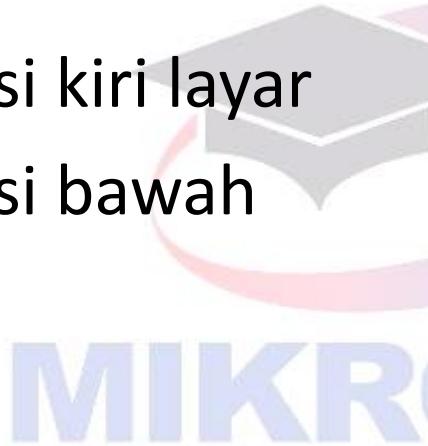
Anatomi



1. Container
2. Header (optional)
3. Divider (optional)
4. Active text overlay
5. Active text
6. Inactive text
7. Subtitle
8. Scrim (modal only)

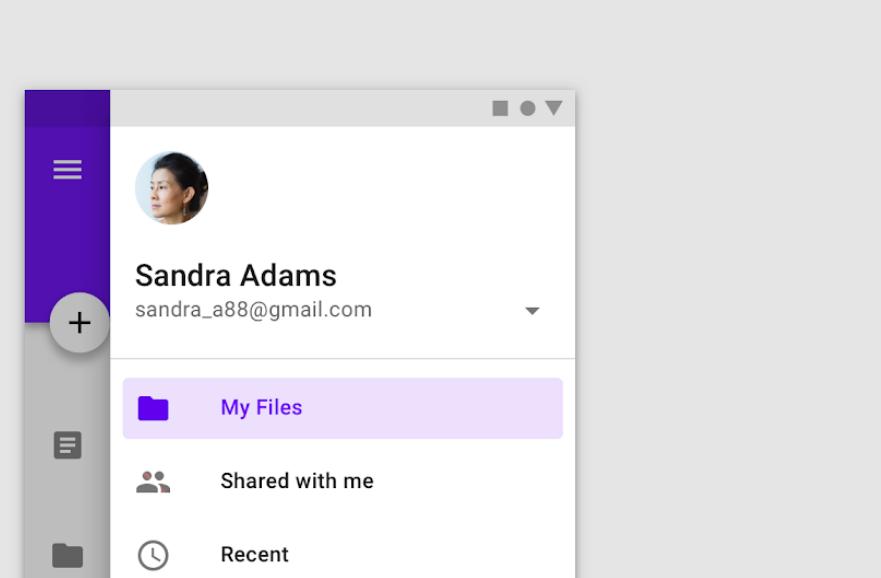
Sheet

- Dapat dibuka dari sisi kiri layar
- Dapat dibuka dari sisi bawah layar



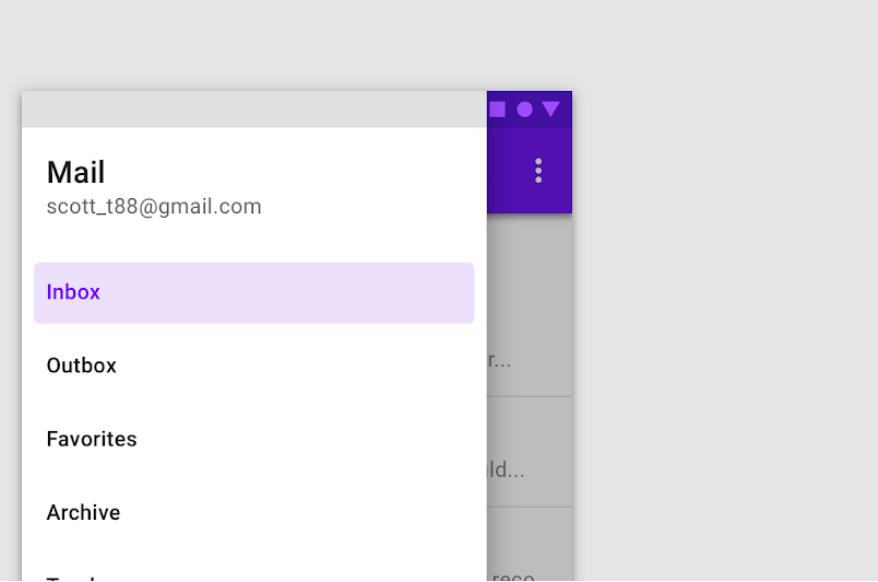
Sheet

Jangan buka dari sisi kanan layar
(kecuali aplikasi disetel ke bahasa
kanan-ke-kiri)



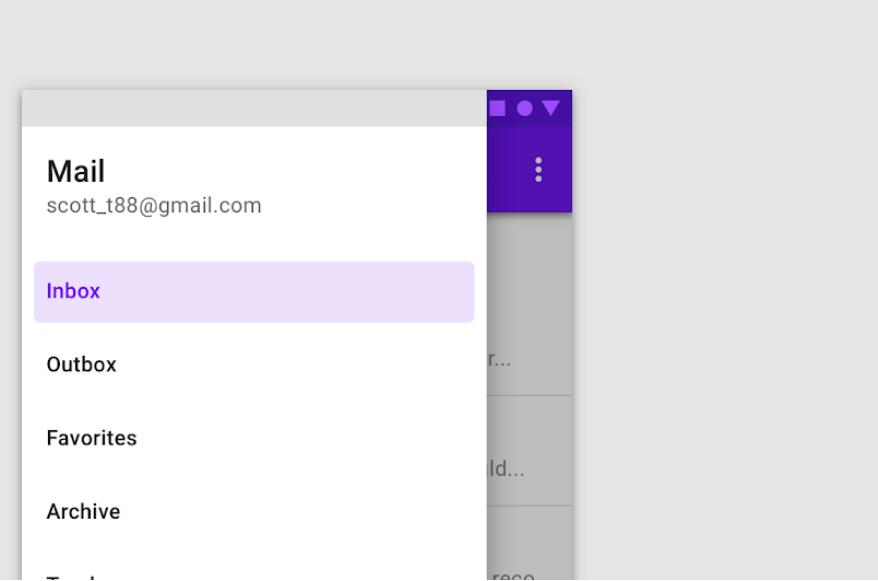
Destination labels

Dapat menggunakan label teks
tanpa ikon



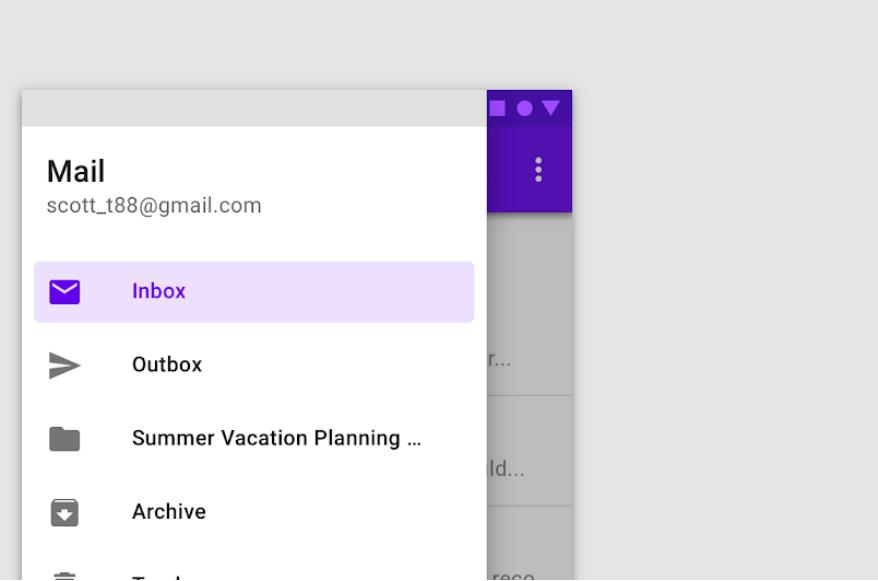
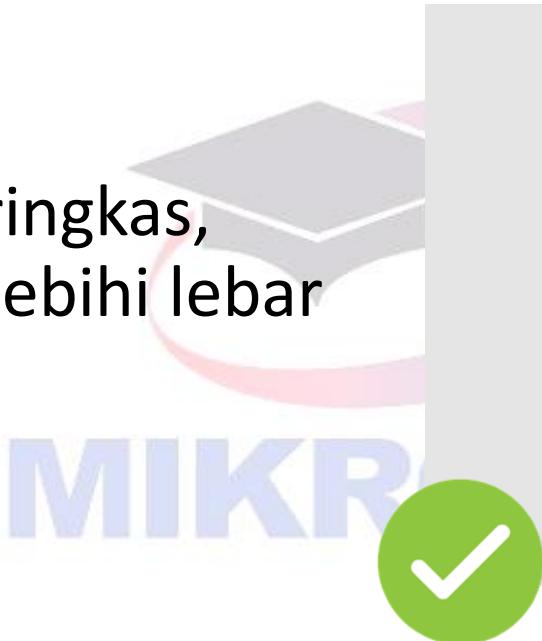
Destination labels

Dapat menggunakan label teks
tanpa ikon

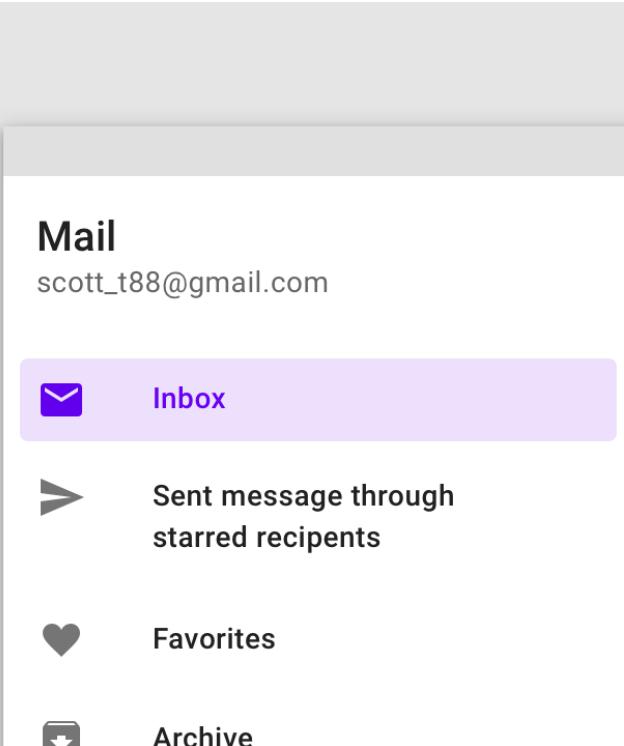


Destination labels

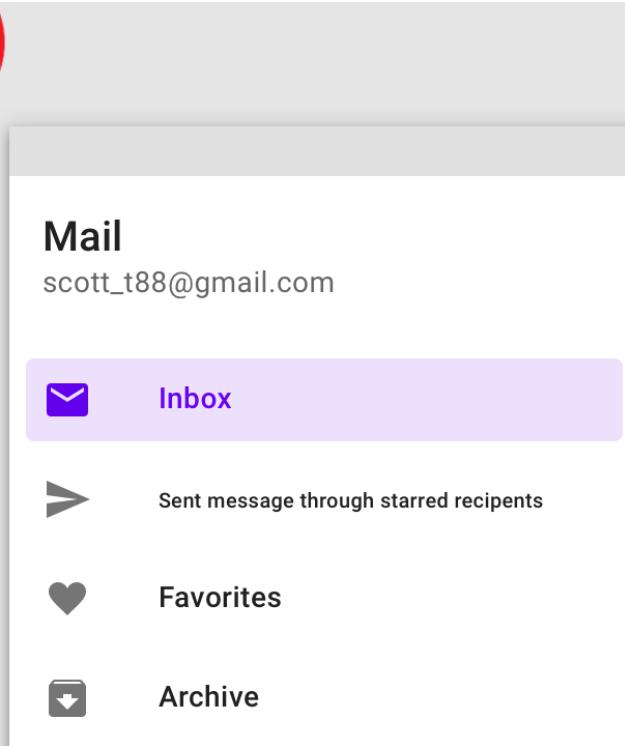
Buat label teks tetap ringkas,
tetapi potong jika melebihi lebar
wadah



Destination labels

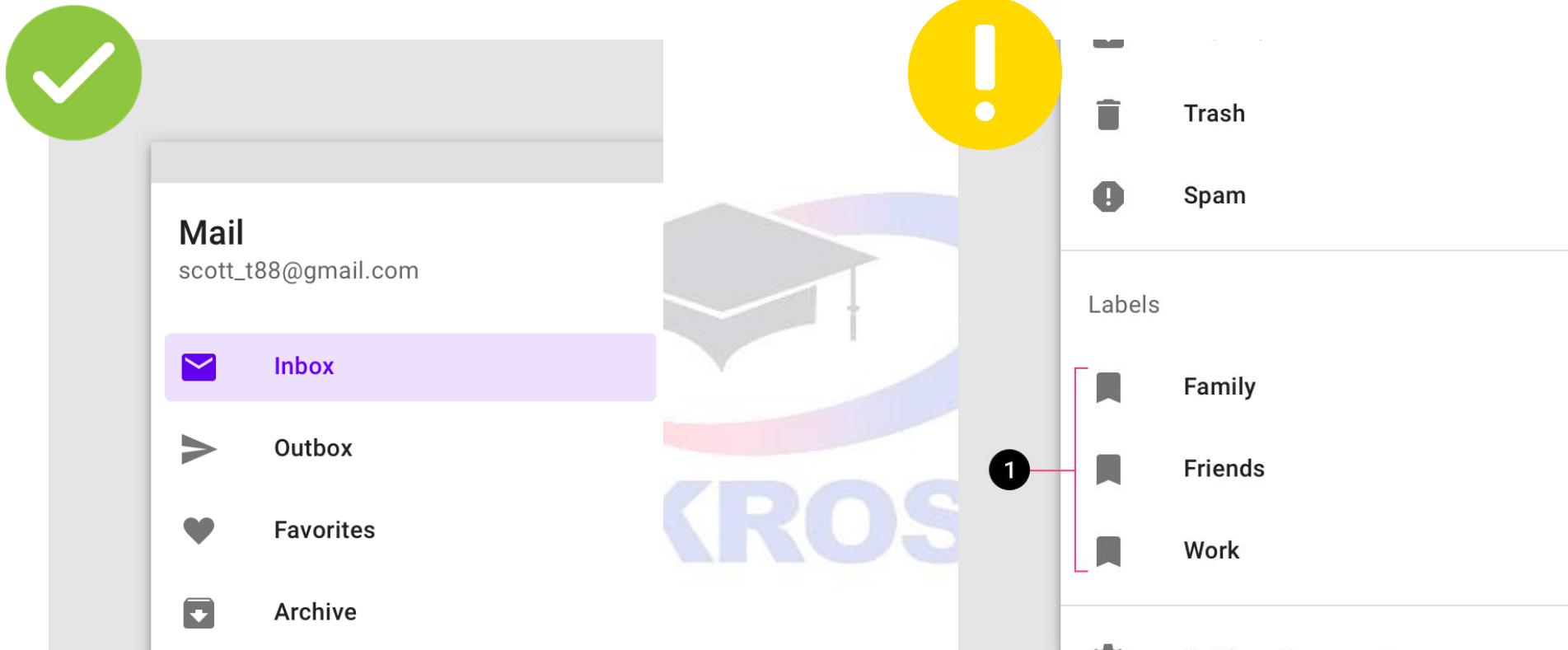


Jangan membungkus teks label



Jangan mengcilkan ukuran teks agar sesuai dengan label teks pada satu baris

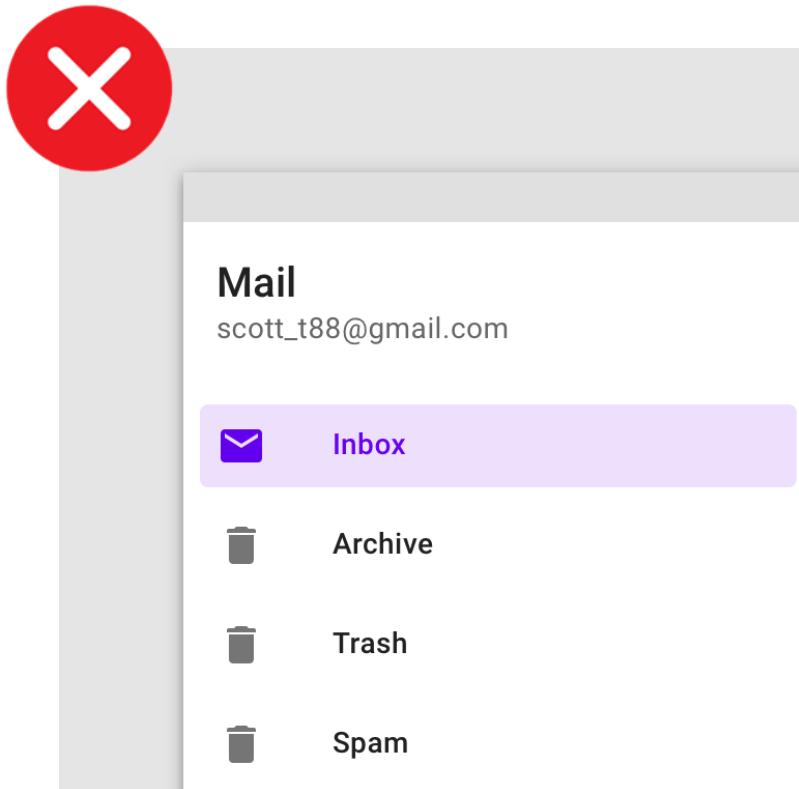
Destination iconography (optional)



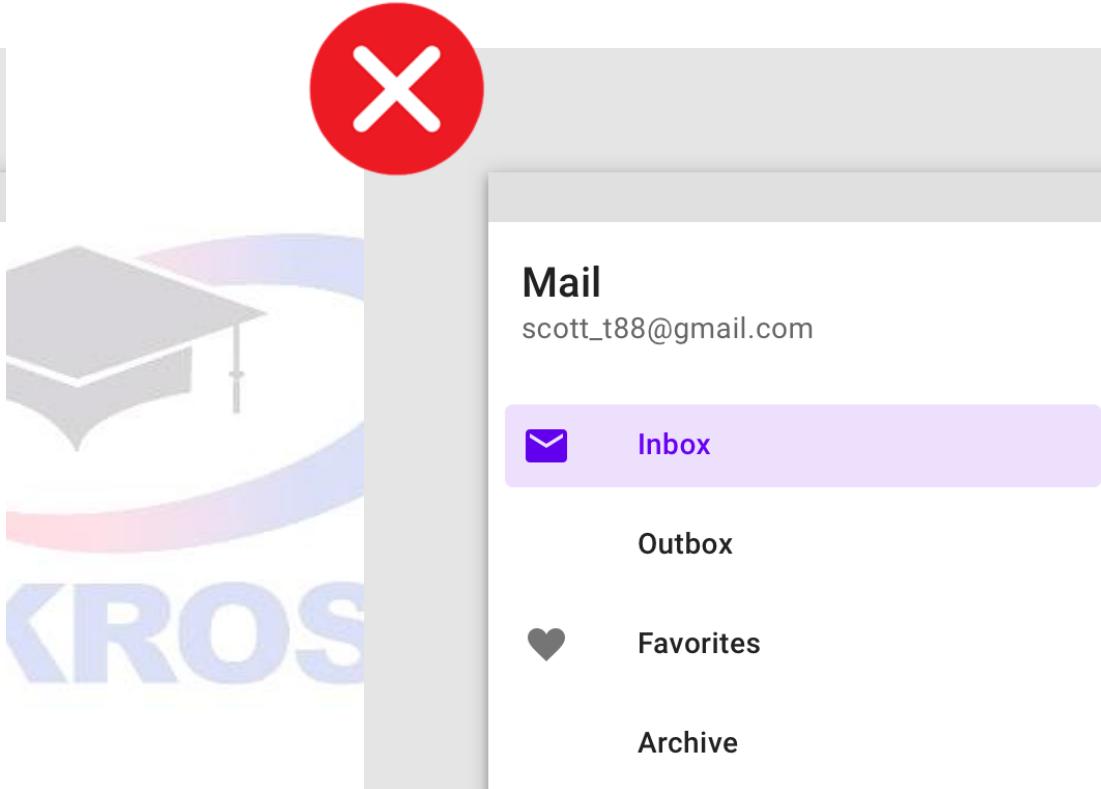
Gunakan ikon yang dapat dikenali

Tidak menggunakan icon yang sama, terutama pada koleksi

Destination iconography (optional)

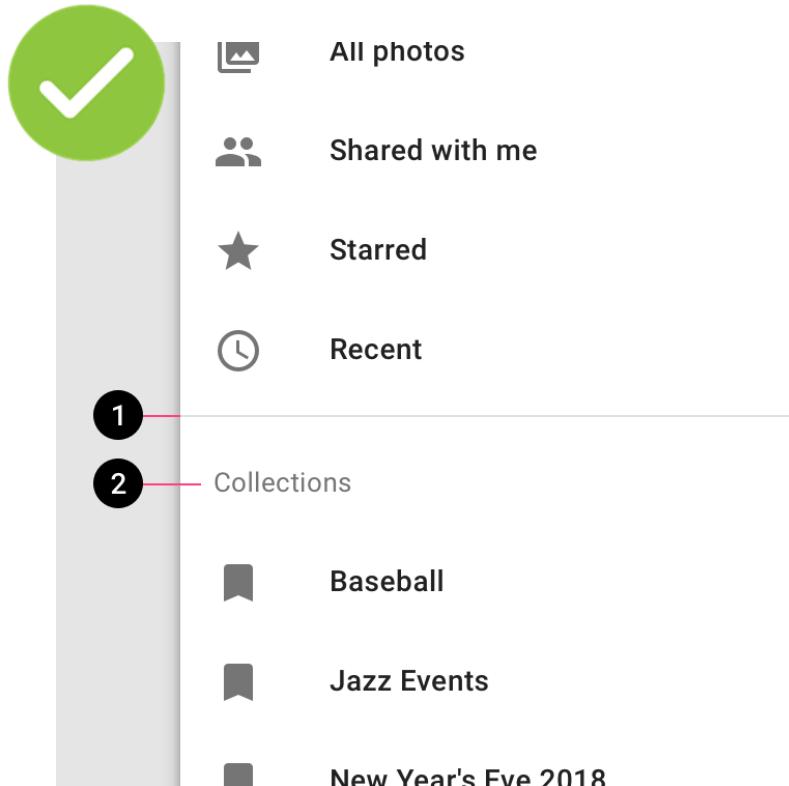


Jangan gunakan ikon yang sama untuk destination yang berbeda

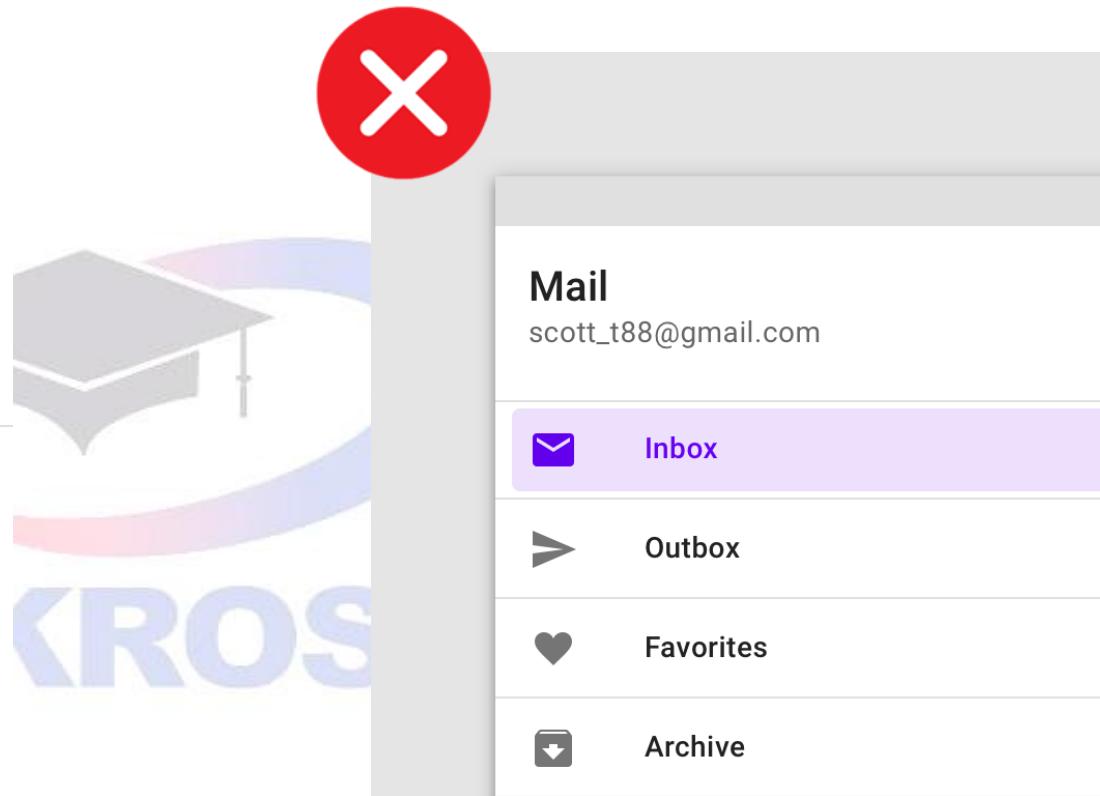


Jangan menerapkan ikon ke beberapa destination

Dividers (optional)



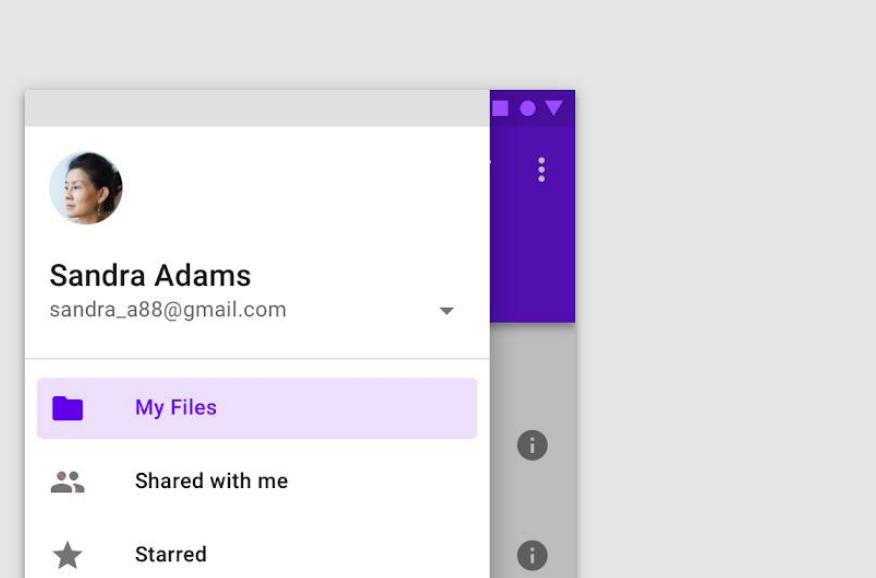
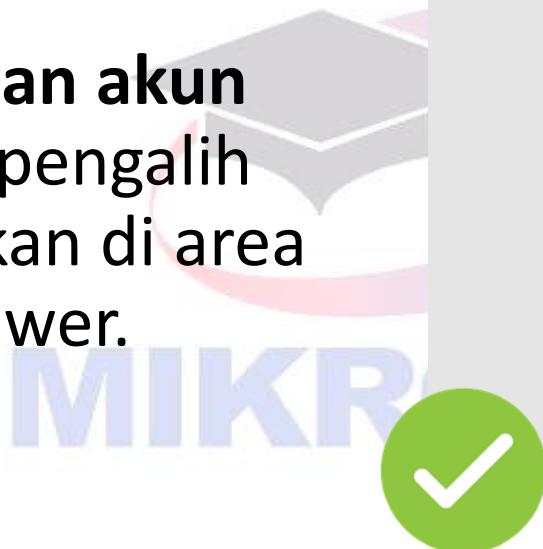
Gunakan **full-width dividers** untuk memisahkan grup



Jangan gunakan dividers untuk memisahkan masing-masing destination

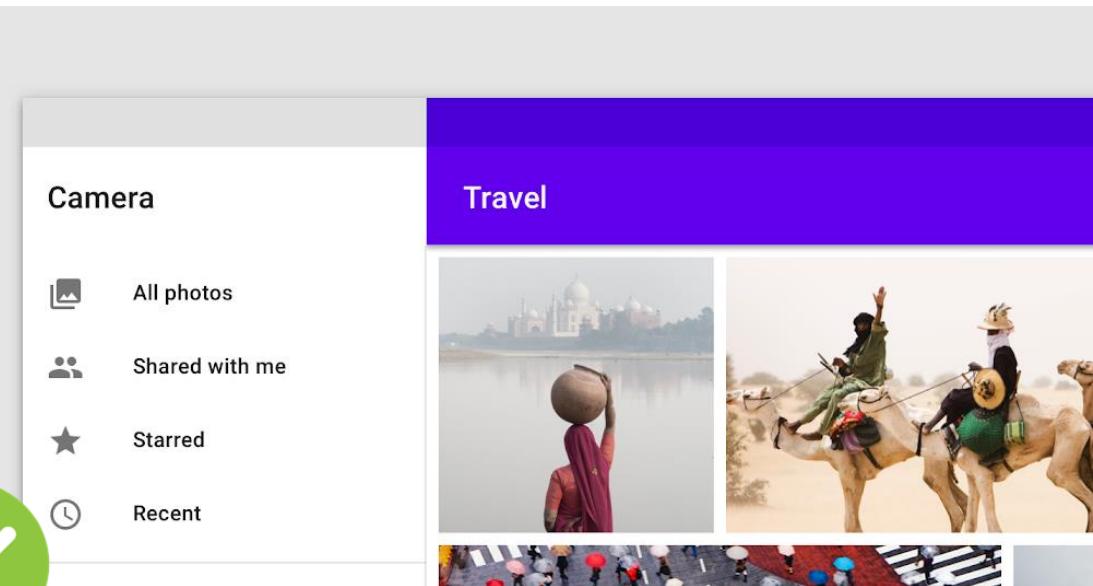
Header (optional)

Jika akses ke **pengalihan akun** merupakan prioritas, pengalihan akun dapat ditempatkan di area header navigation drawer.



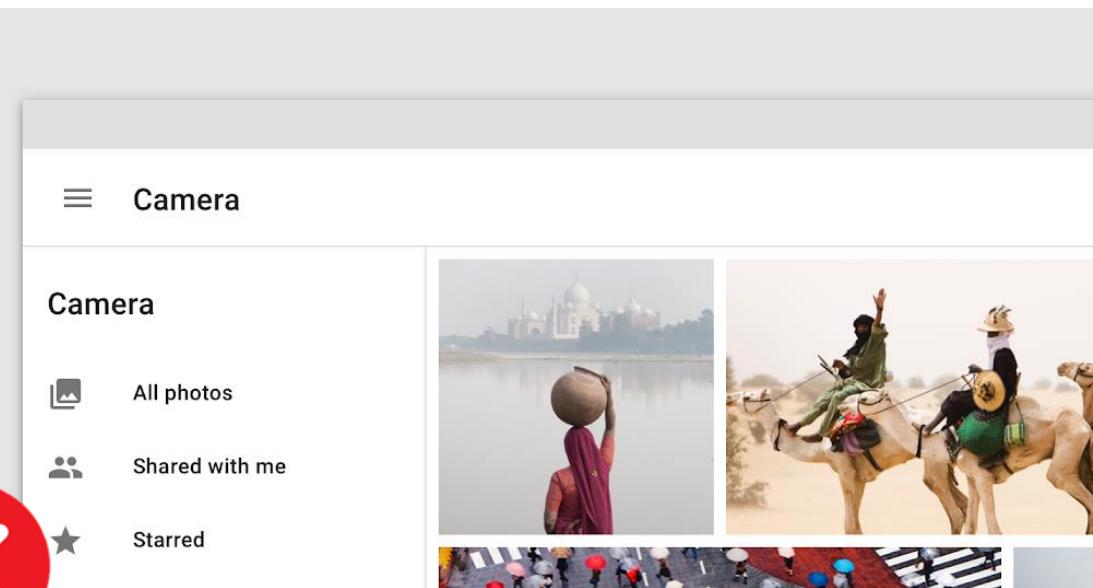
Header (optional)

Jika ketinggian navigation drawer adalah vertikal penuh, **dapat** menempatkan **branding** atau **nama produk** di area header.



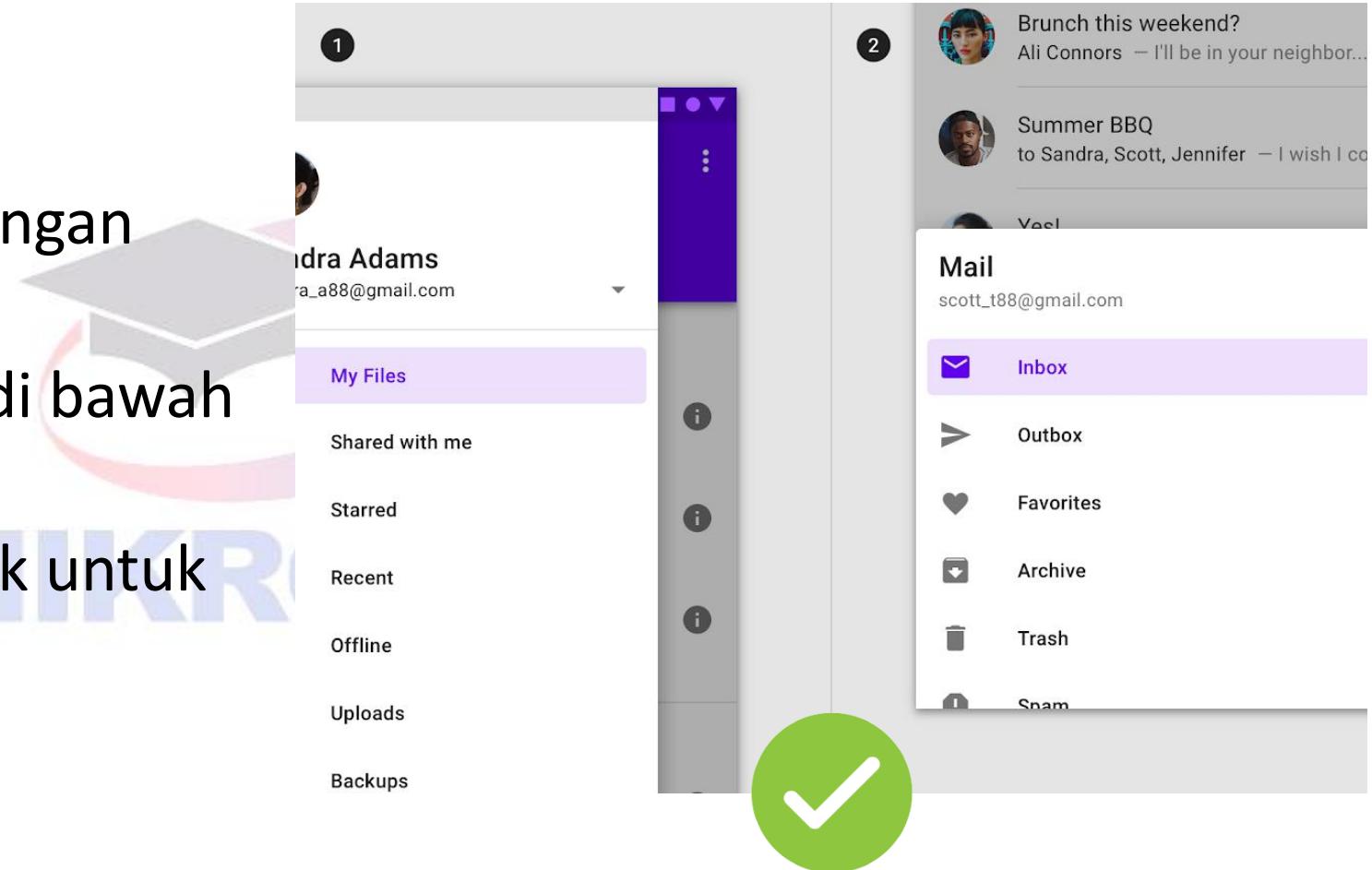
Header (optional)

Jika navigation drawer terpotong oleh bilah aplikasi atas, **jangan** tempatkan merek atau nama produk di header.



Scrim (modal and bottom only)

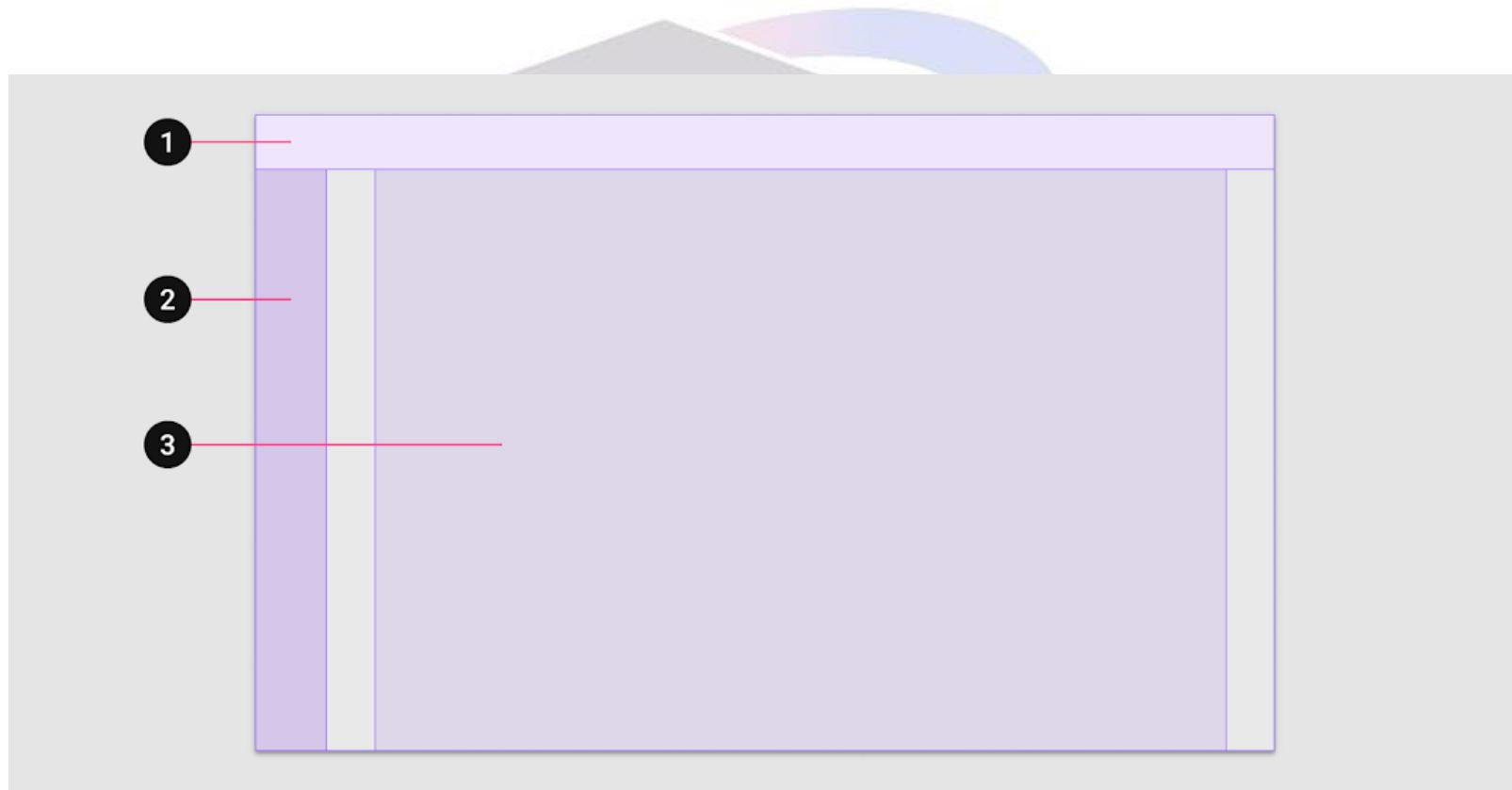
- Dapat digunakan untuk **memblokir interaksi** dengan aplikasi lainnya
- Ditempatkan langsung di bawah drawer
- Dapat diketuk atau diklik untuk menutup laci



Behavior (Scaling and adaptation)

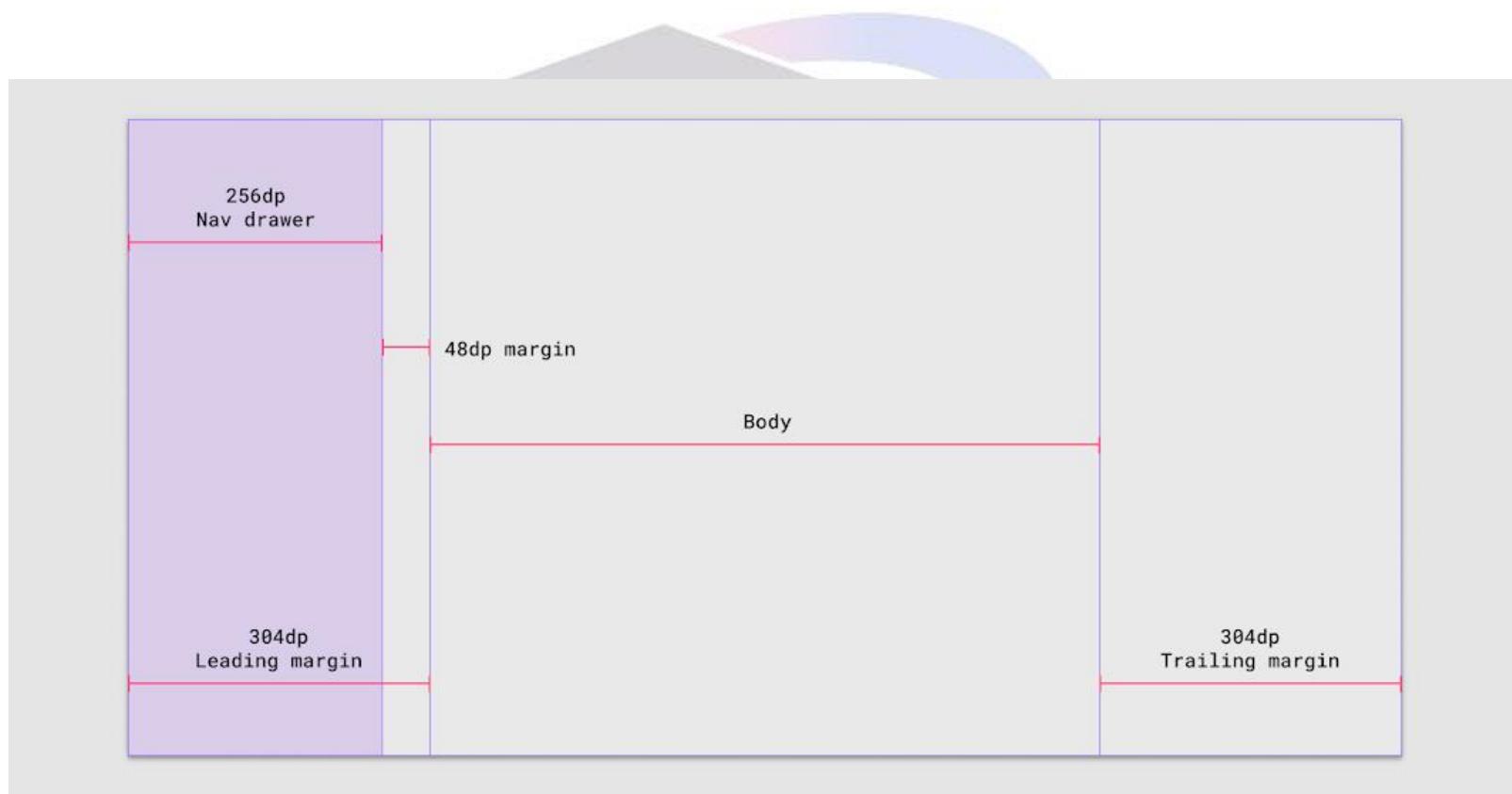
Elemen utama layout layar besar :

1. App bars
2. Navigation
3. Body



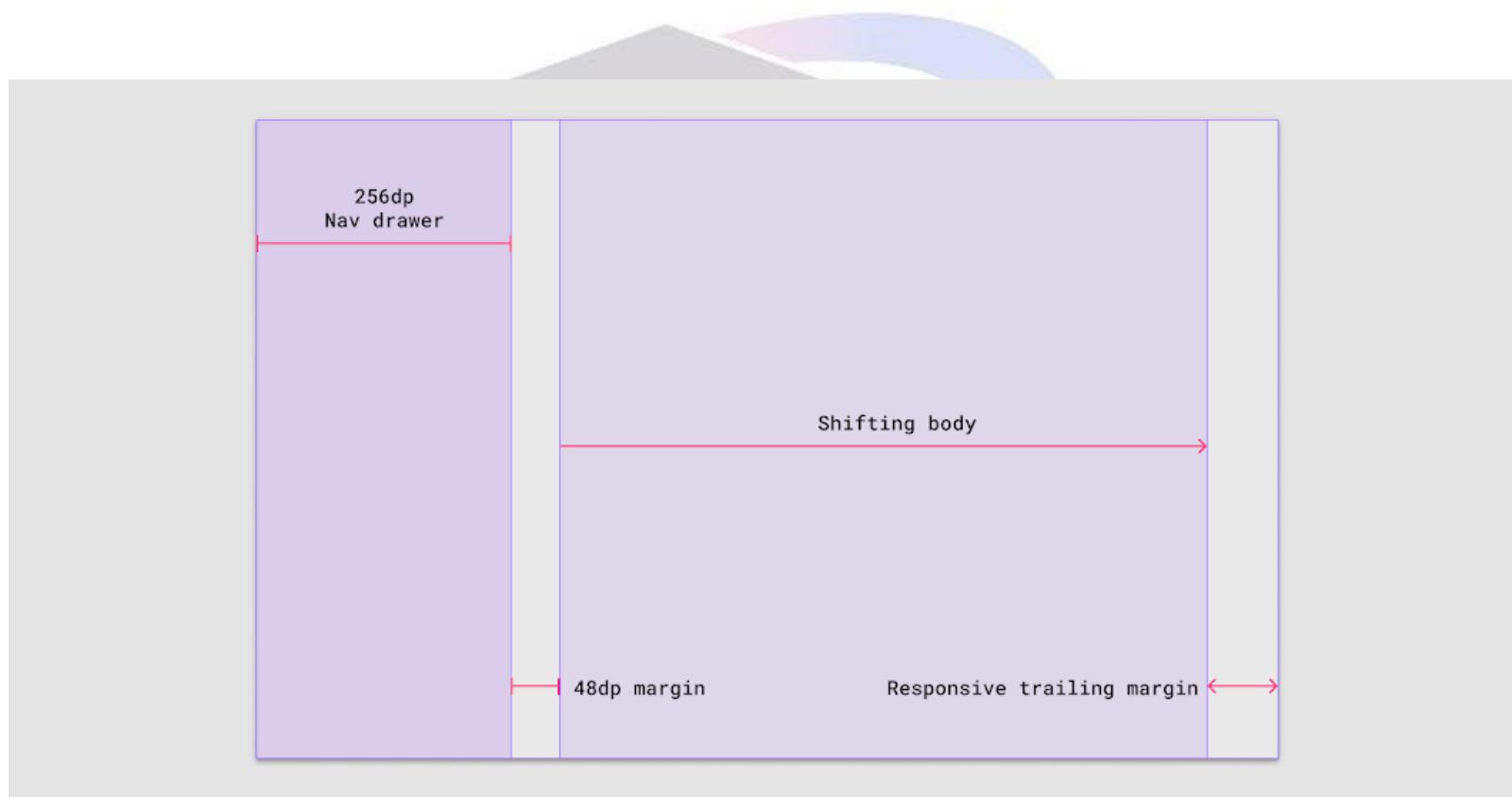
Behavior (Margins greater than 304dp)

Jika margin awal adalah **304dp**, gunakan panel samping navigasi (**256dp**) dengan margin **48dp** tanpa menyesuaikan badan atau margin tambahan.



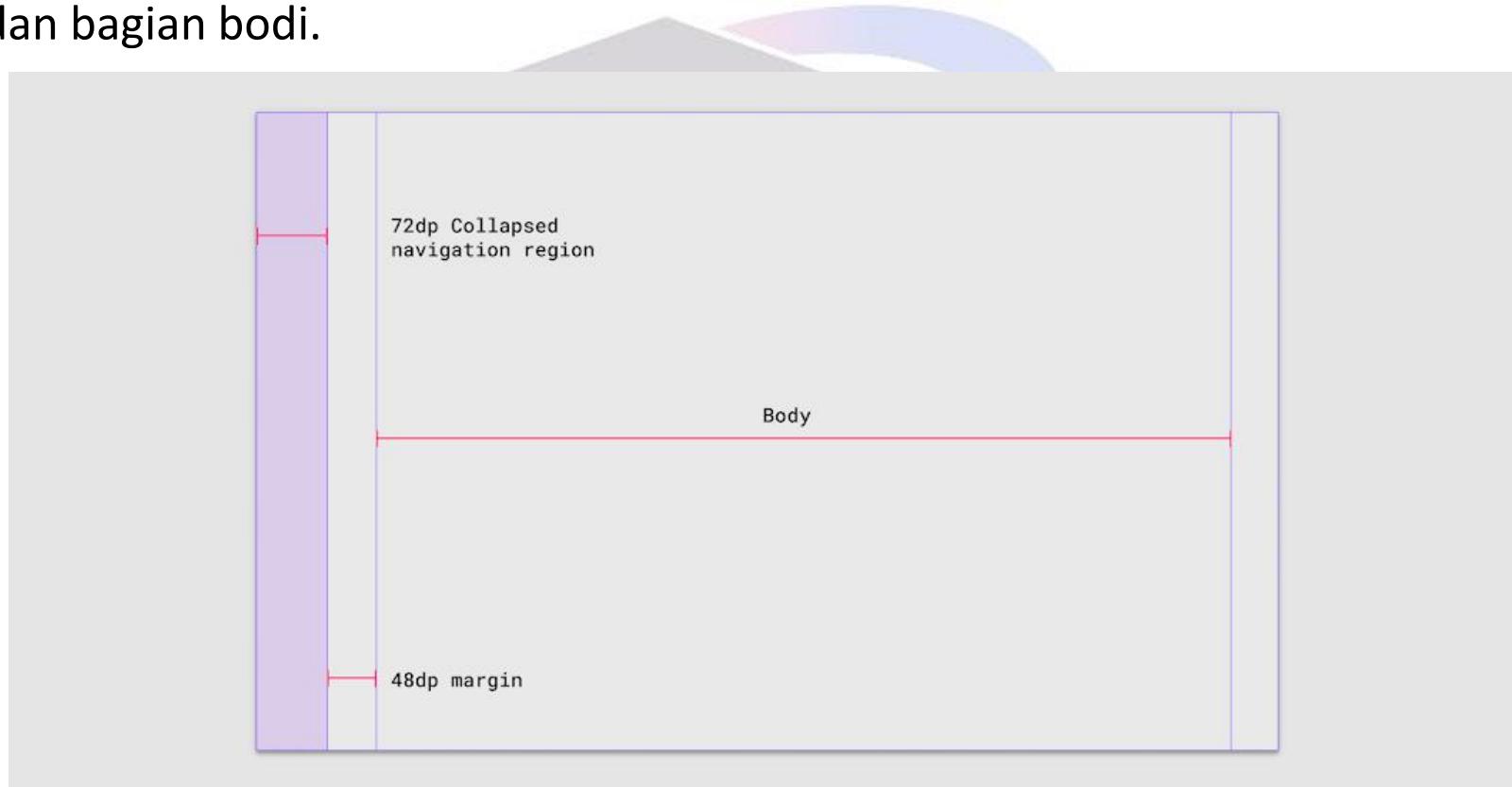
Behavior (Margin lebih besar dari 48dp: Geser ke kanan)

Jika margin kanan lebih besar dari **48dp**, bagian tubuh akan dikompres ke kanan untuk memberi ruang bagi wilayah navigasi untuk berkembang.



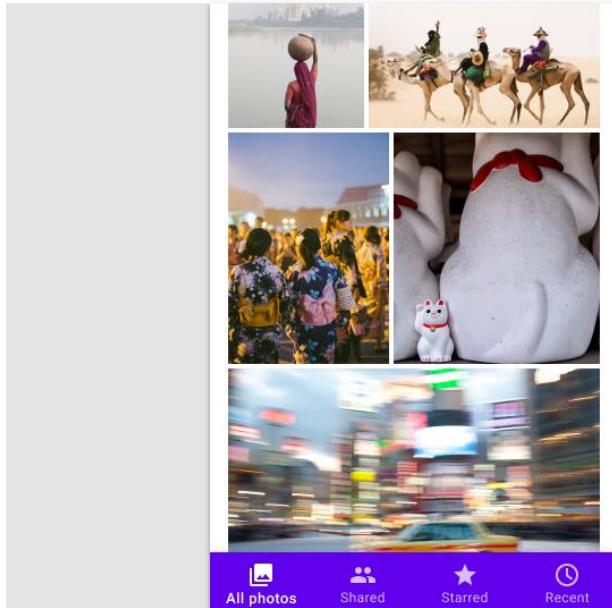
Behavior (Menciutkan wilayah navigasi)

Pengguna mungkin ingin menutup laci navigasi menjadi rel navigasi untuk meningkatkan kepadatan informasi dan memaksimalkan ruang layar yang tersedia. Gunakan margin 48dp antara rel navigasi dan bagian bodi.

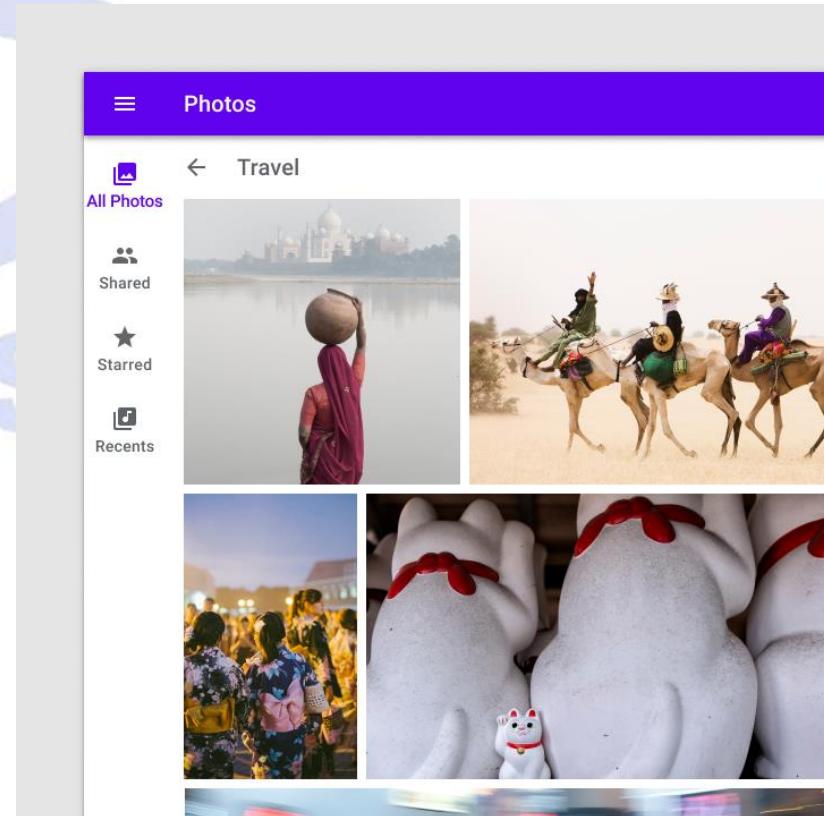


Behavior (Pertukaran komponen)

Breakpoint kecil: 360-599dp
Untuk perangkat kecil seperti ponsel



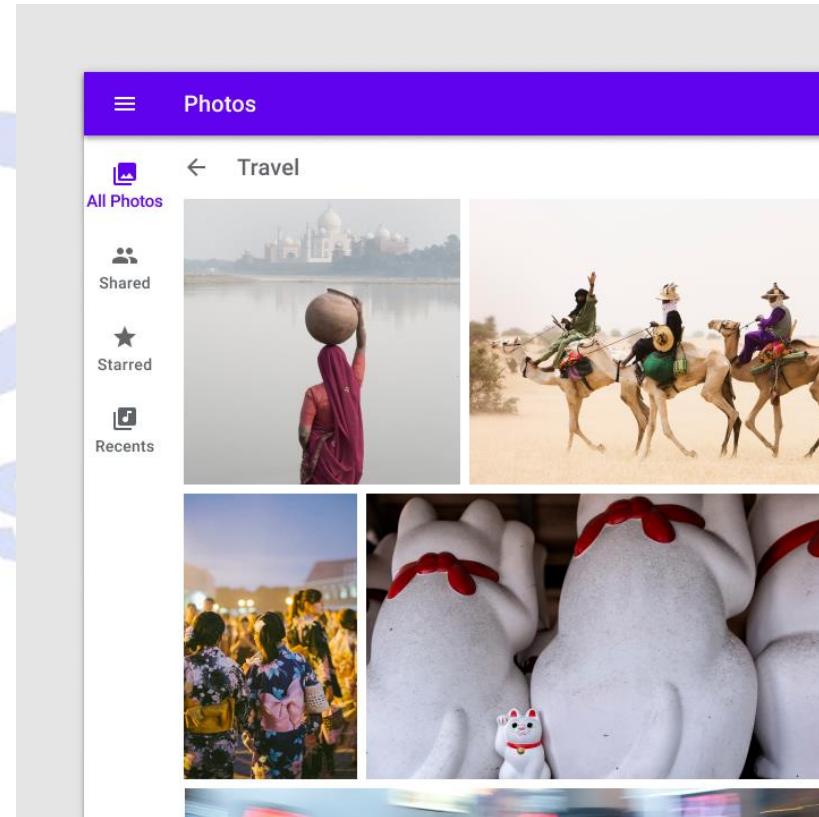
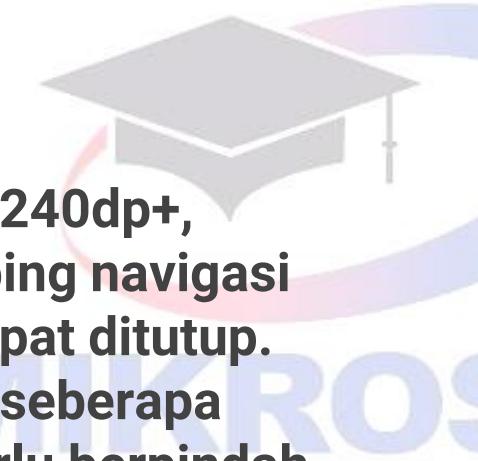
Breakpoint sedang: 600-1239dp
Untuk perangkat kecil seperti tablet



Behavior (Pertukaran komponen)

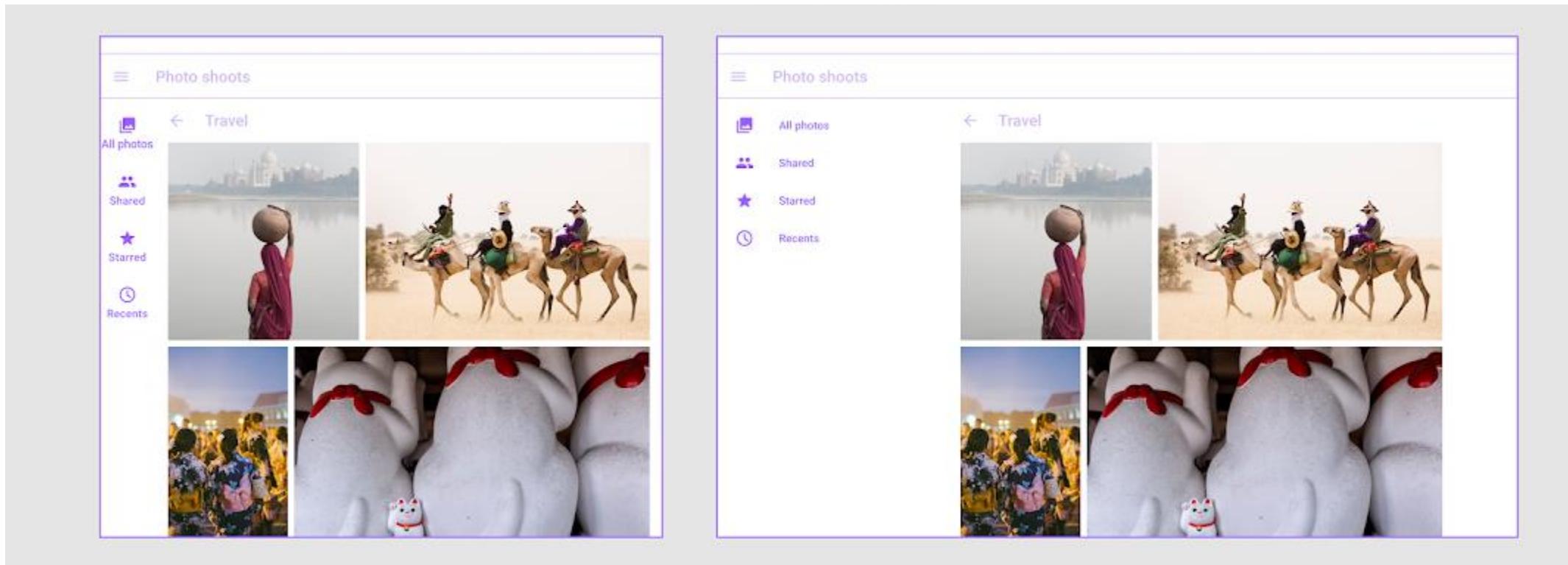
Breakpoint besar: 1240dp+

Pada perangkat dengan lebar 1240dp+,
tampilkan tujuan di panel samping navigasi
yang terlihat permanen atau dapat ditutup.
Tetapkan hierarki berdasarkan seberapa
sering atau cepat pengguna perlu berpindah
antar tujuan.



Behavior (Transisi komponen)

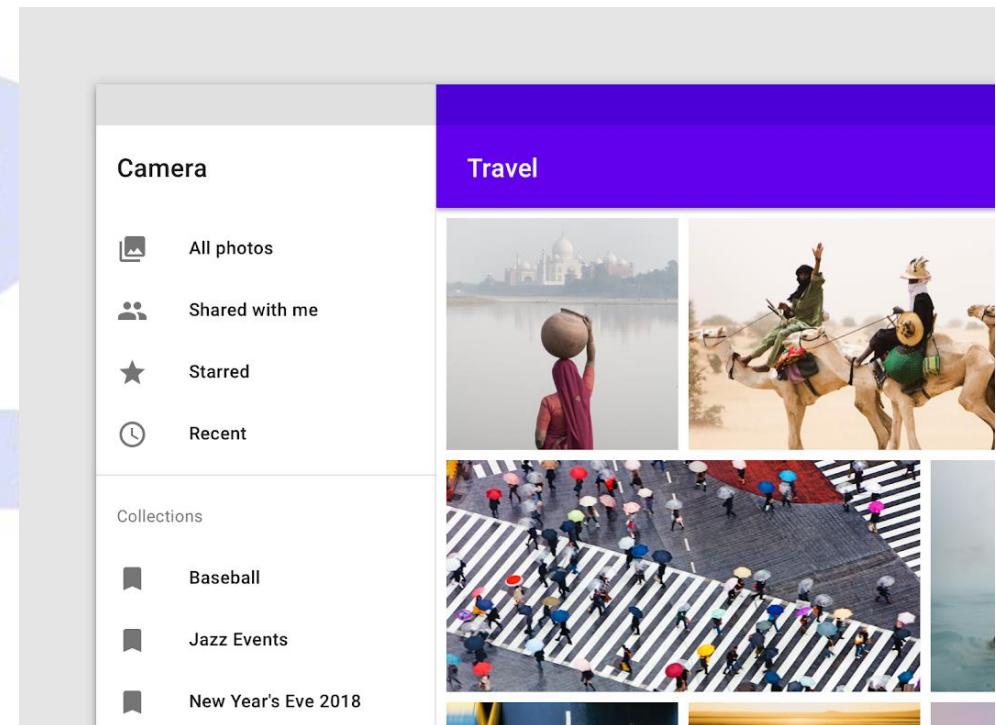
Gunakan transisi untuk memberi sinyal sakelar komponen di layar. Misalnya, saat beralih dari orientasi potret ke lanskap, rel navigasi harus berubah menjadi panel samping navigasi.



Jenis Navigation Drawer

Standard drawer

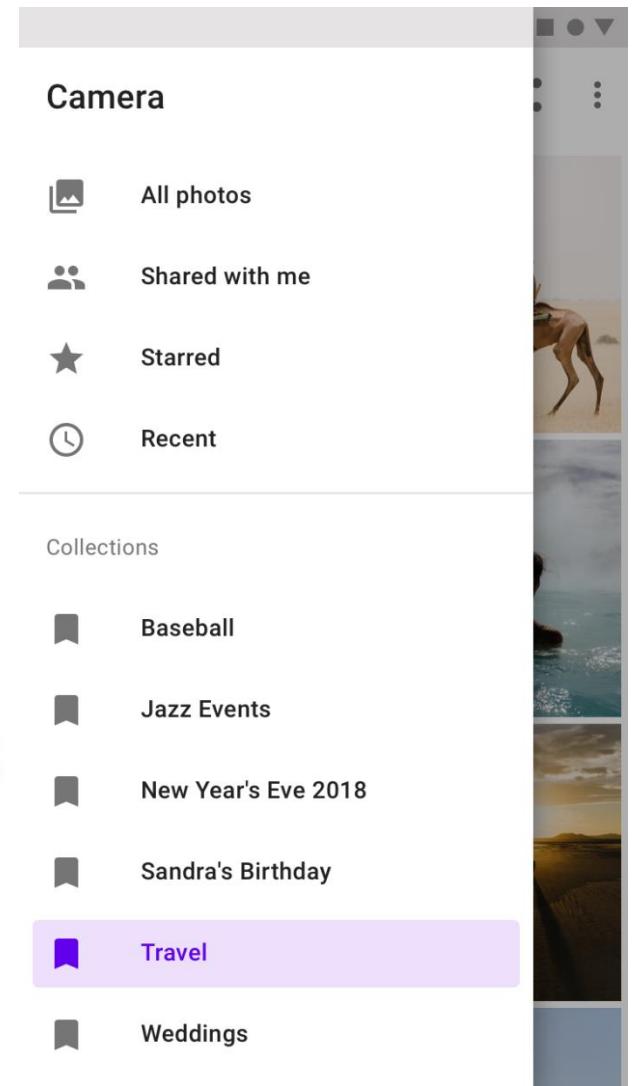
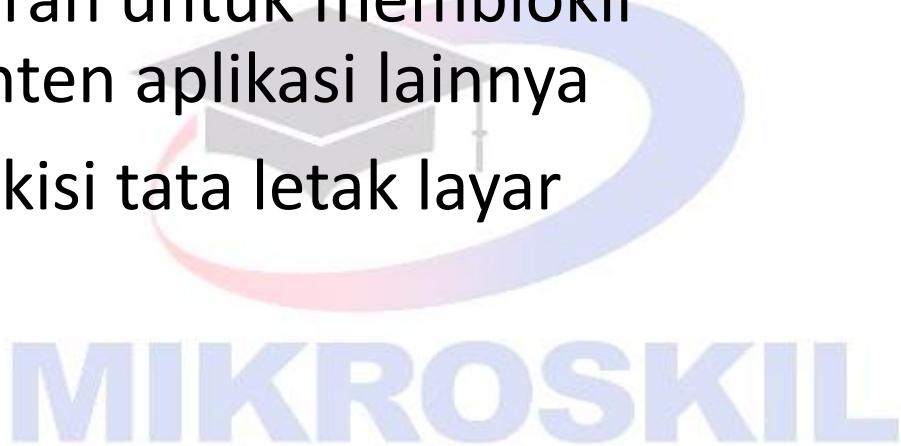
- Mengakses **tujuan Drawer** dan konten aplikasi secara bersamaan.
- **Sejajar** dengan konten aplikasi
- Memengaruhi **tata letak layar**.
- Dapat terlihat secara **permanen** atau **dibuka** dan **ditutup** dengan mengetuk ikon menu navigasi
- digunakan di **tablet** dan **desktop**



Jenis Navigation Drawer

Modal drawer

- Menggunakan samaran untuk memblokir interaksi dengan konten aplikasi lainnya
- tidak memengaruhi kisi tata letak layar
- digunakan di ponsel

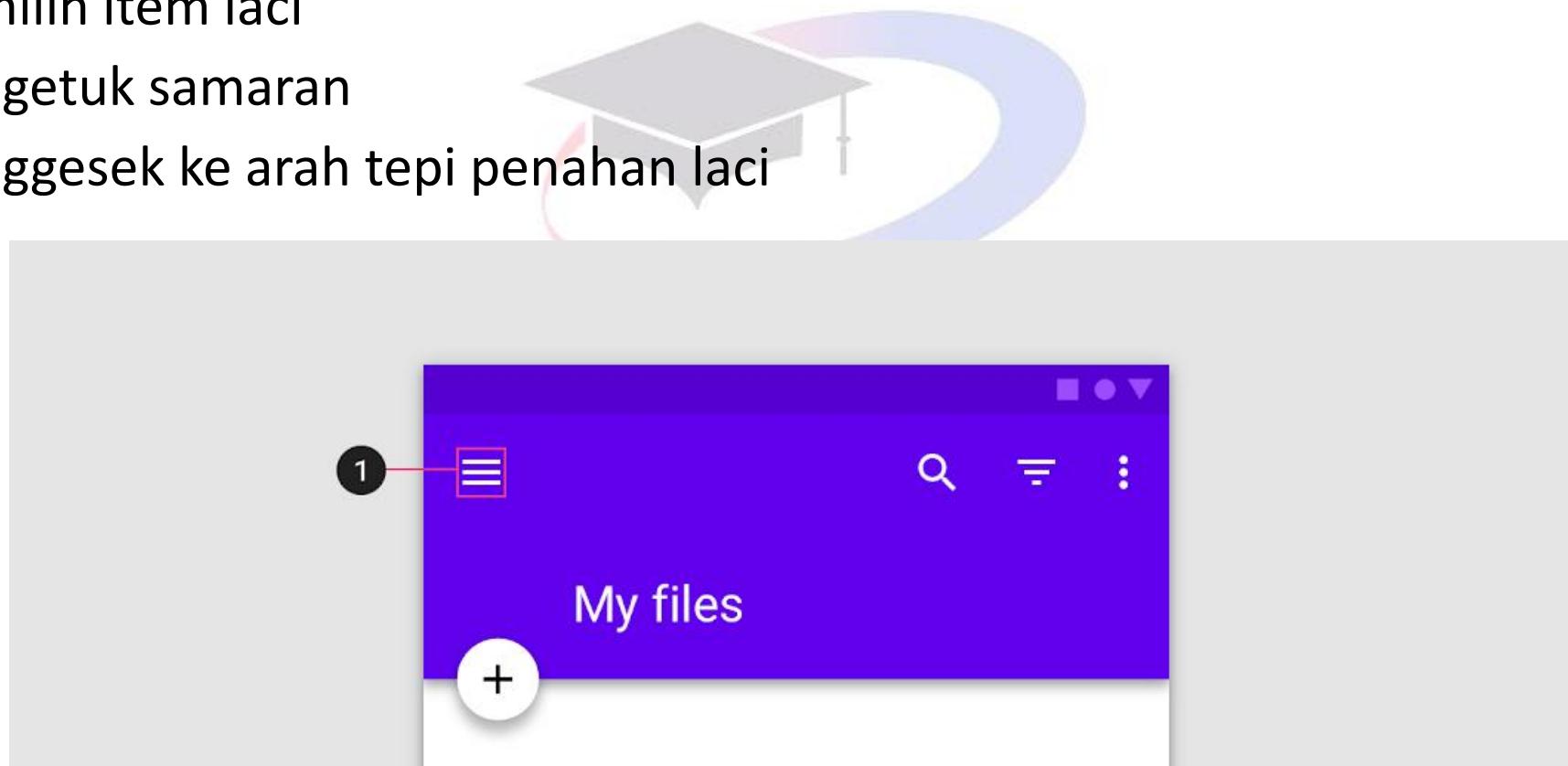


Jenis Navigation Drawer

Modal drawer

Modal drawer dapat ditutup dengan:

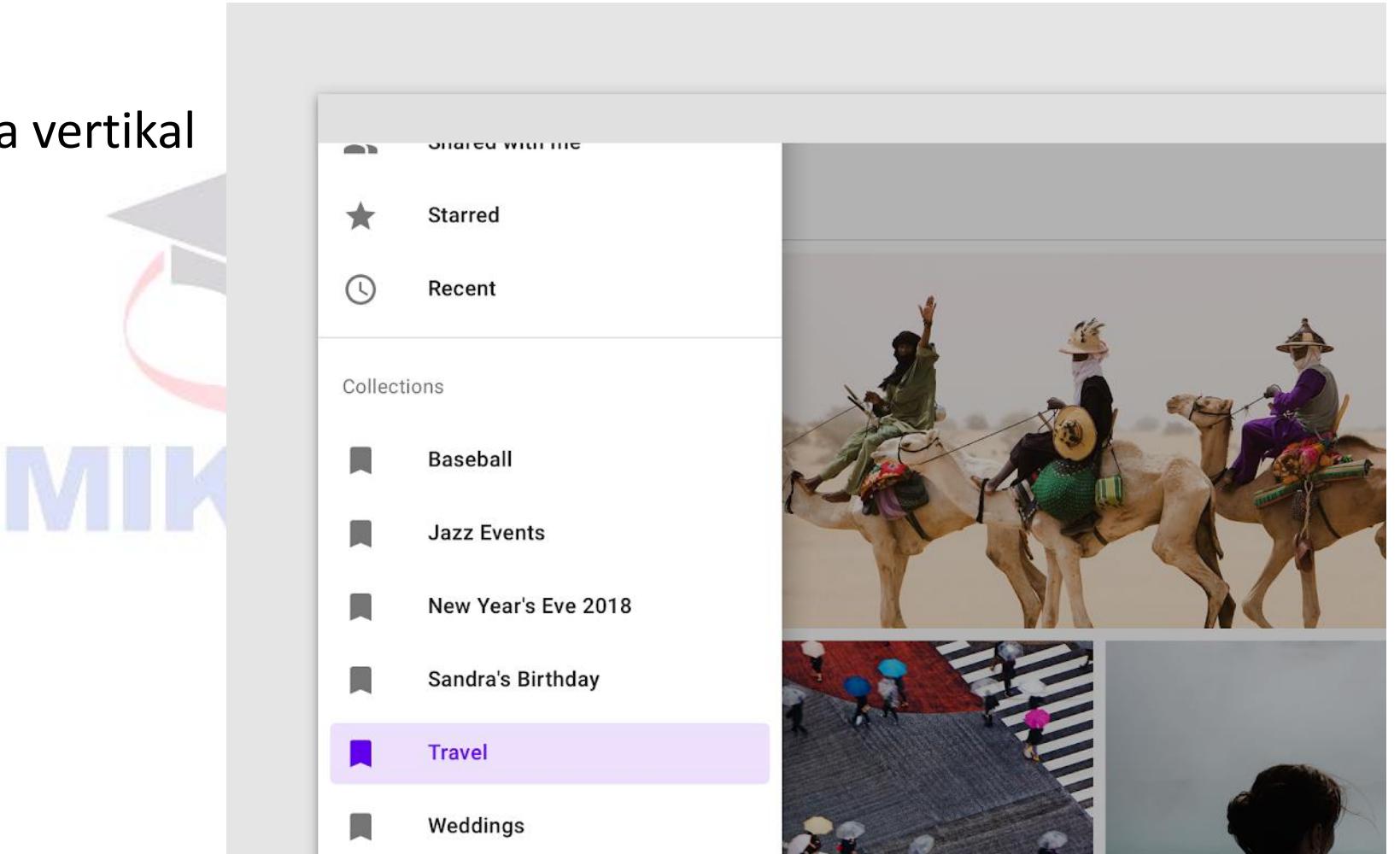
1. Memilih item laci
2. Mengetuk samaran
3. Menggesek ke arah tepi penahan laci



Jenis Navigation Drawer

Modal drawer

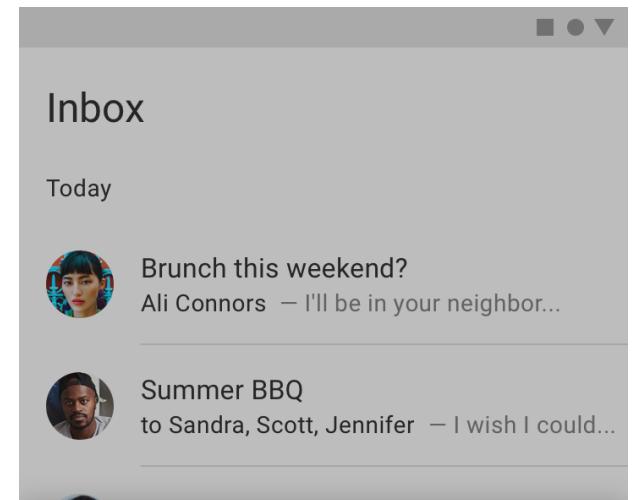
Daftar dapat digulir secara vertikal di laci



Jenis Navigation Drawer

Bottom drawer

- Khusus untuk digunakan dengan **bottom app bar**
- Dibuka dari bagian bawah layar



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scott_t88@gmail.com

Jenis Navigation Drawer

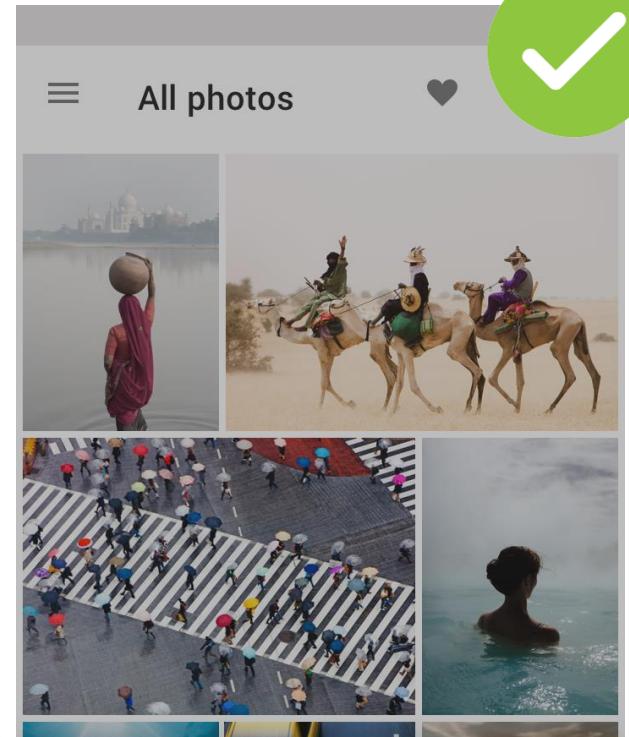
Bottom drawer

- Jika isi drawer di bawah 50% dari tinggi layar, buka drawer setinggi penuh setiap saat
- Jika isi drawer lebih besar dari 50% dari tinggi layar, buka hingga 50% pada awalnya, lalu izinkan pengguna untuk menyeret drawer ke atas hingga ketinggian penuh atau tinggi layarnya

Jenis Navigation Drawer

Bottom drawer

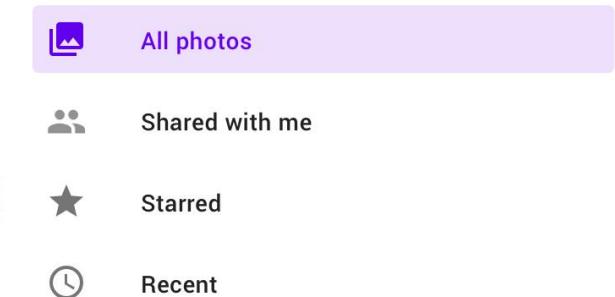
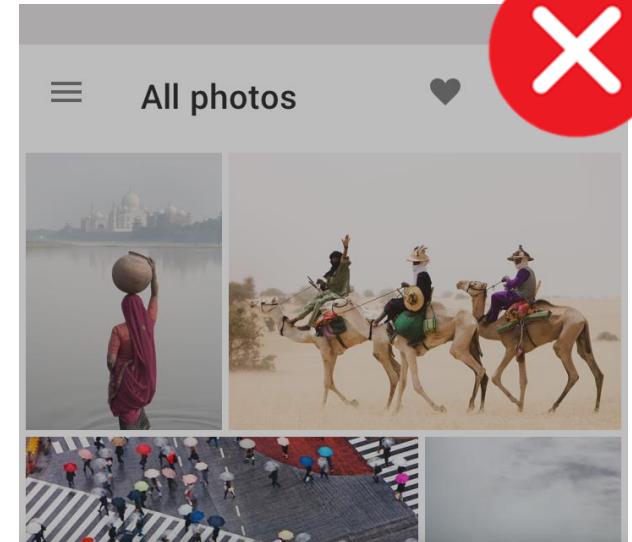
Buka drawer navigasi bawah yang hanya berisi beberapa item hingga ketinggian penuhnya



Jenis Navigation Drawer

Bottom drawer

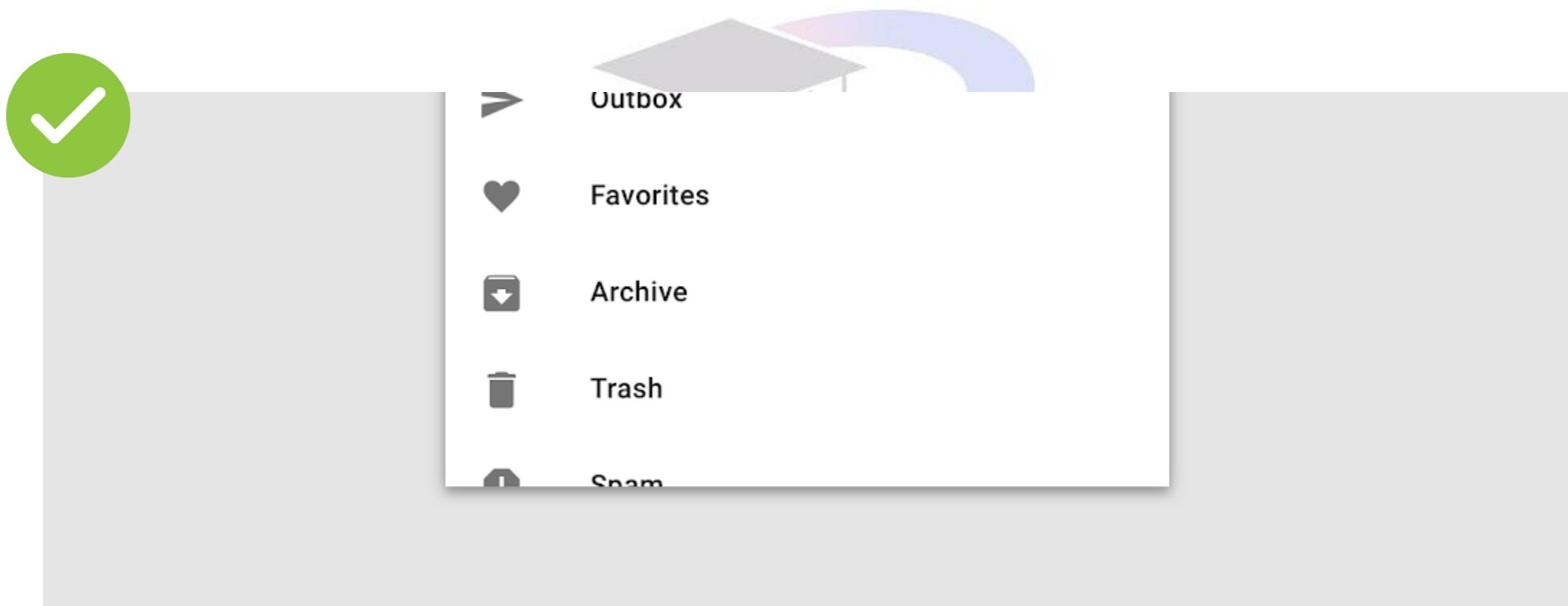
Jangan memperpanjang tinggi drawer
melebihi isinya



Jenis Navigation Drawer

Bottom drawer

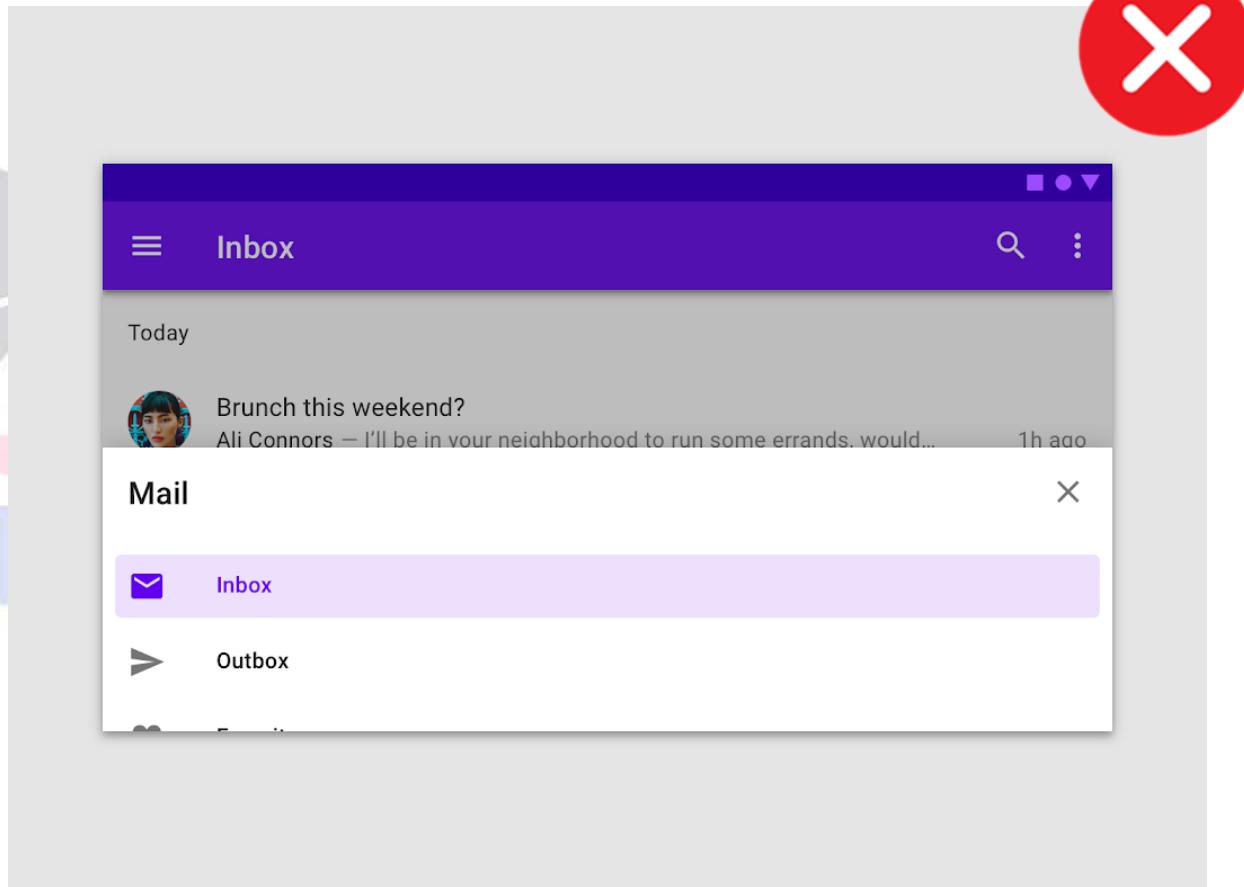
Sesuaikan posisi pembukaan drawer navigasi bawah Anda sehingga item daftar terakhir yang terlihat terpotong di bagian bawah layar



Jenis Navigation Drawer

Bottom drawer

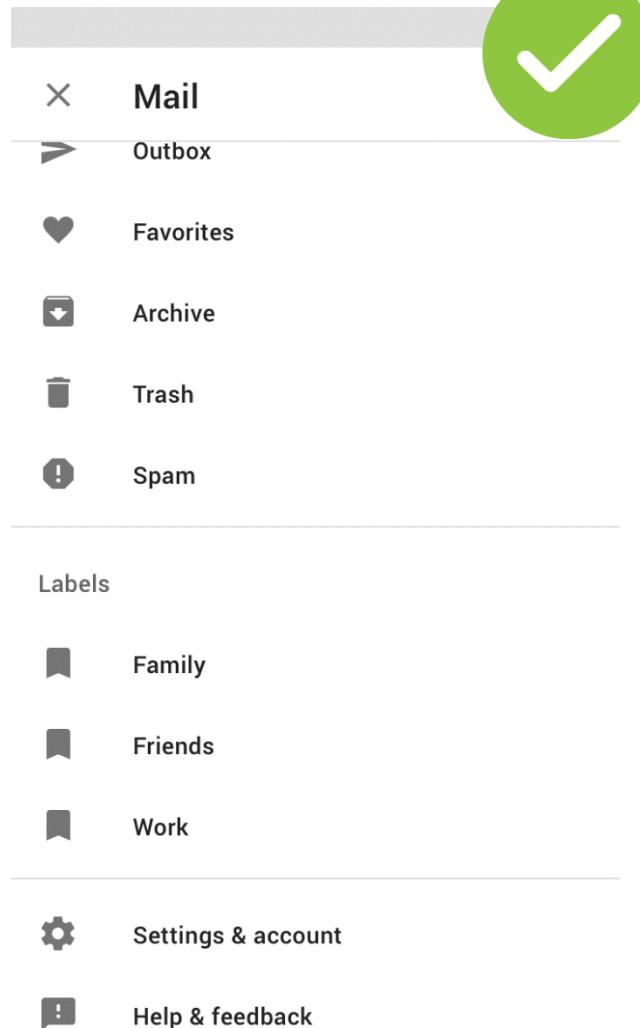
Jangan membuka drawer
bawah hingga setengah tinggi
layar dalam mode landscape



Jenis Navigation Drawer

Bottom drawer

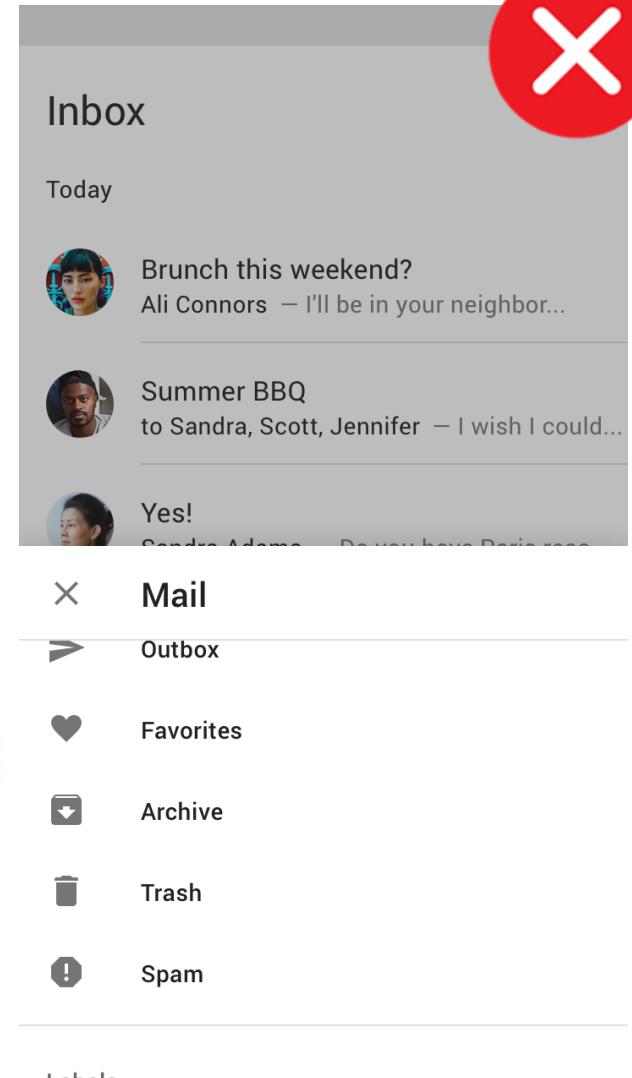
Izinkan konten drawer bawah digulir saat berada pada ketinggian penuh



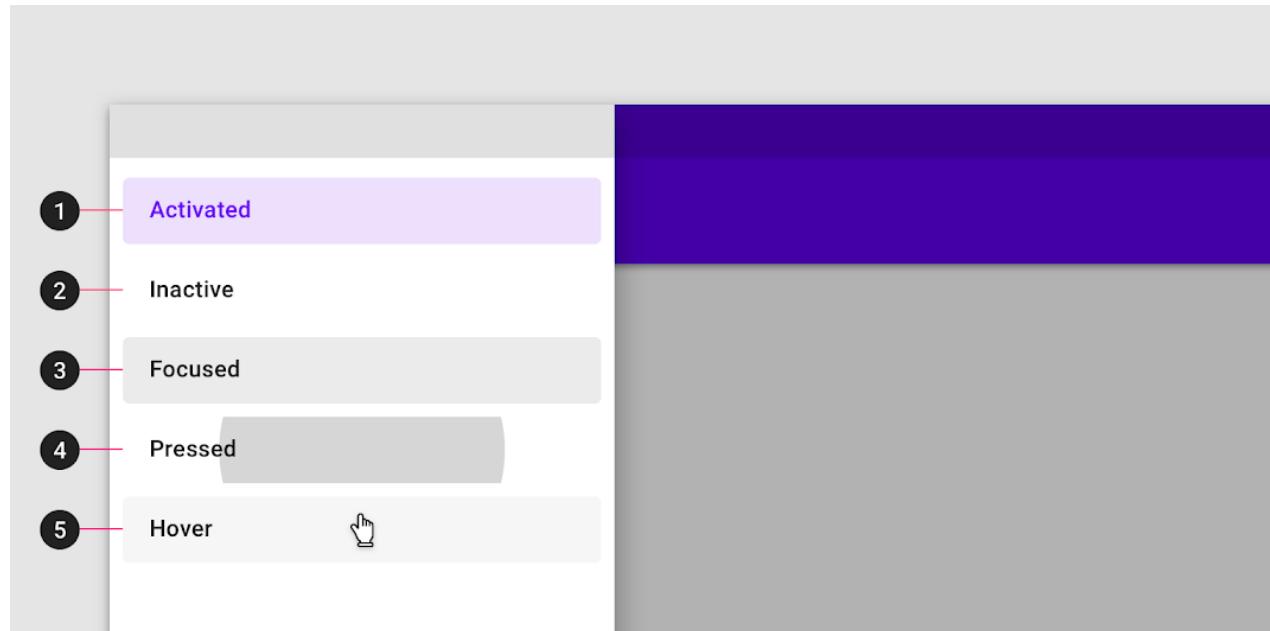
Jenis Navigation Drawer

Bottom drawer

Jangan menggulir konten drawer bawah saat tidak setinggi layar penuh

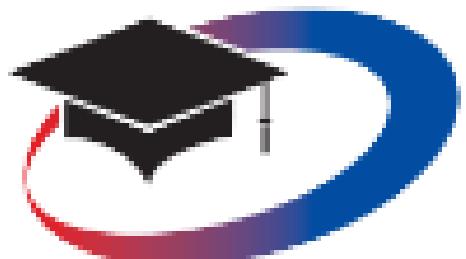


State



1. **Activated**
2. **Inactive**
3. Focus
4. Pressed
5. Hover

Penerapan di Flutter

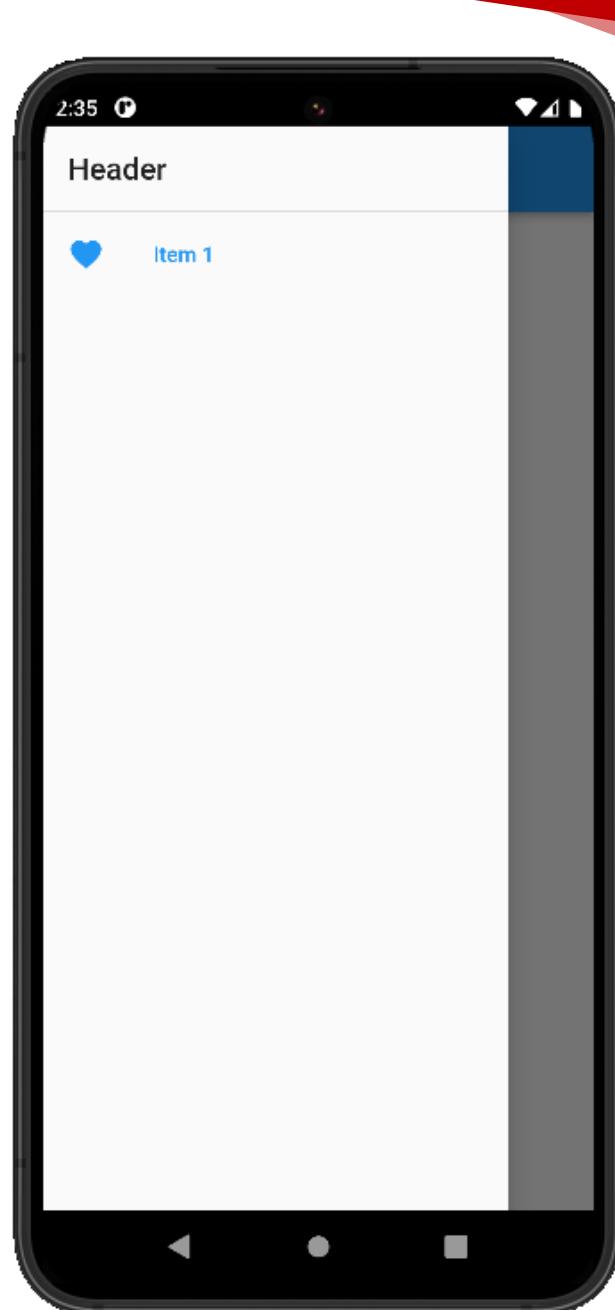


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Implementasi di Flutter

```
  Drawer(
    child: ListView(
      // Important: Remove any padding from the ListView.
      padding: EdgeInsets.zero,
      children: <Widget>[
        Padding(
          padding: const EdgeInsets.all(16.0),
          child: Text(
            'Header',
            style: textTheme.headline6,
          ),
        ),
        const Divider(
          height: 1,
          thickness: 1,
        ),
        ListTile(
          leading: Icon(Icons.favorite),
          title: Text('Item 1'),
          selected: _selectedDestination == 0,
          onTap: () => selectDestination(0),
        ),
      ],
    ),
  ),
```



Implementasi di Flutter

```
● ● ●

class HomeScreen extends StatefulWidget {
    final String title;
    const HomeScreen({Key? key, required this.title}) : super(key: key);

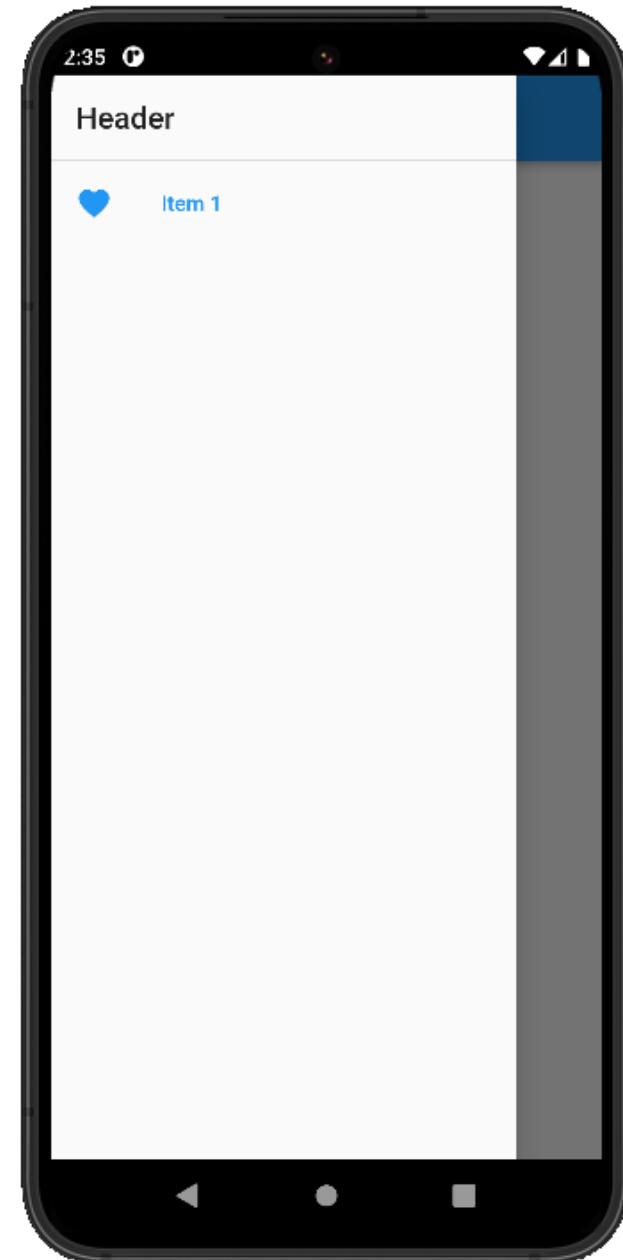
    @override
    State<StatefulWidget> createState() {
        return _HomeScreen();
    }
}

class _HomeScreen extends State<HomeScreen> {
    int _selectedDestination = 0;

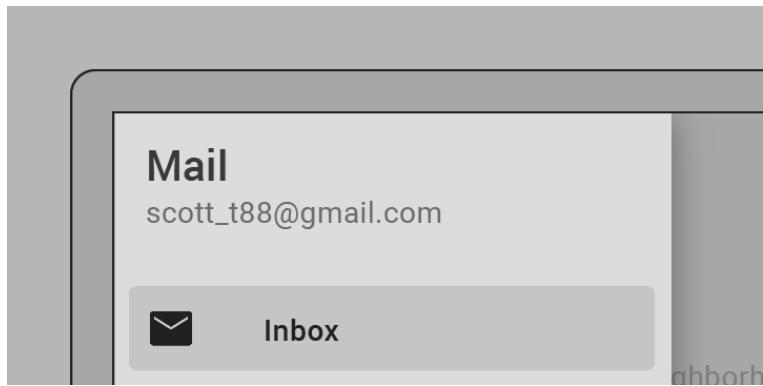
    @override
    Widget build(BuildContext context) {
        final theme = Theme.of(context);
        final textTheme = theme.textTheme;

        return Scaffold(
            appBar: AppBar(
                title: Text(widget.title),
            ),
            drawer: Drawer(...),
            body: const Text("Drawer Testing"),
        );
    }

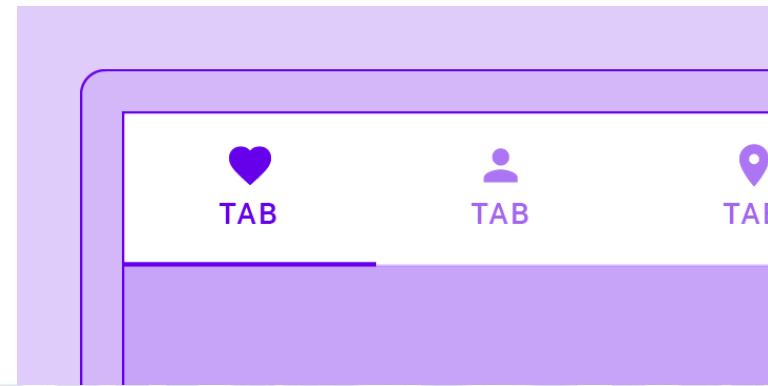
    void selectDestination(int index) {
        setState(() {
            _selectedDestination = index;
        });
    }
}
```



Komponen dalam Mendesain Aplikasi Part. 6

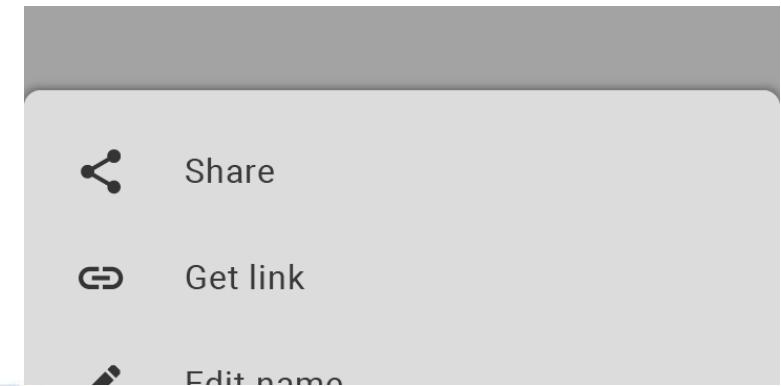


Navigation Drawer



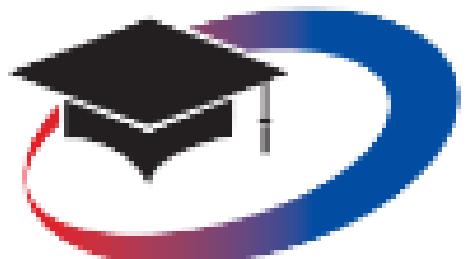
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Tabs Bar



Sheets:Bottom

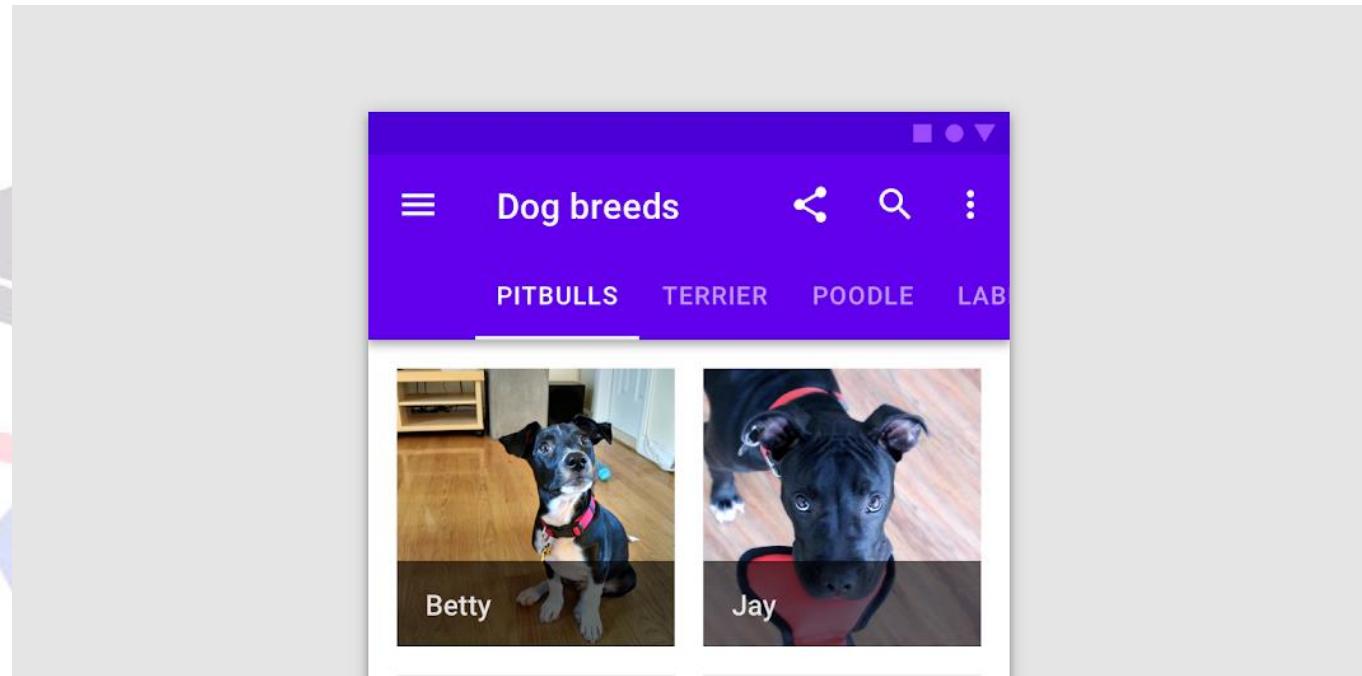
Tabs Bar



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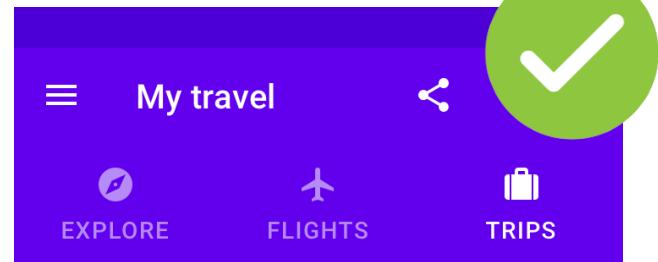
Tabs Bar berfungsi untuk...

Mengatur dan mengizinkan navigasi antara grup konten yang terkait pada tingkat hierarki yang sama



Penggunaan Tabs Bar

- Label tab dapat menyertakan ikon dan teks.
- Label teks harus pendek



Penggunaan Tabs Bar

Jangan gunakan tab untuk **berpindah** melalui **konten berurutan** yang perlu dibaca dalam urutan tertentu



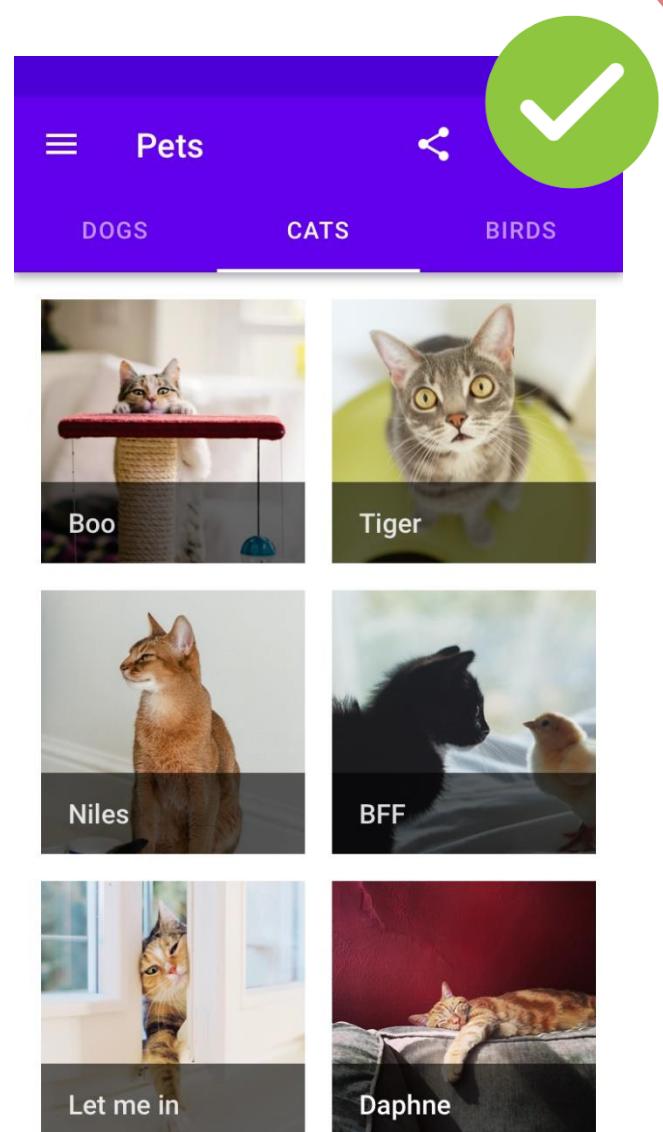
A screenshot of a digital book reader interface. At the top, the title "Moby Dick" is displayed next to a menu icon (three horizontal lines) and a share icon. To the right is a large red circular button with a white "X" on it. Below the title, there are three visible tabs labeled "CHAPTER 1", "CHAPTER 2", and "CHAPTER 3". The content area shows the first few paragraphs of the first chapter.

and started for Cape Horn and the Pacific. Quitting the good city of old Manhatto, I duly arrived in New Bedford. It was on a Saturday night in December. Much was I disappointed upon learning that the little packet for Nantucket had already sailed, and that no way of reaching that place would offer, till the following Monday.

As most young candidates for the pains and penalties of whaling stop at this same New Bedford, thence to embark on their voyage, it may as well be related that I, for one, had no idea of so doing. For my mind was made up to sail in no other than a Nantucket craft, because there was a fine, hoisterous something about

Penggunaan Tabs Bar

Menampilkan tab sebagai satu baris di atas konten terkaitnya



Penggunaan Tabs Bar

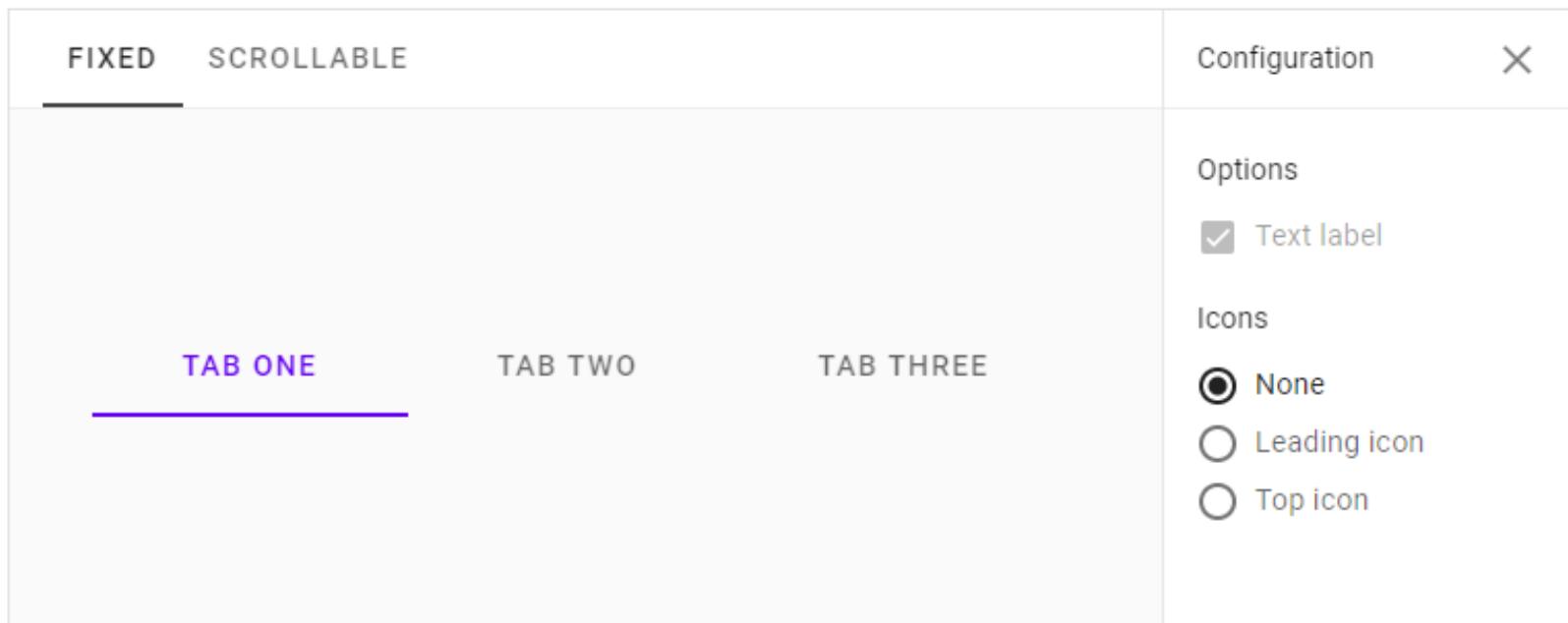
Hindari menggunakan tab untuk membandingkan konten di beberapa tab



The screenshot shows a mobile application interface for a sushi shop. At the top, there's a navigation bar with a menu icon, the text "Sushi Shop", a share icon, and a large red circular button with a white "X". Below the navigation is a horizontal size selector bar with three options: "SMALL", "MEDIUM" (which is highlighted in white), and "LARGE". The main content area features a photograph of a "Sashimi bowl" containing salmon, tuna, rice, and vegetables. Below the image, the text "Sashimi bowl" is displayed next to a price of "\$14.50". A descriptive text states: "Our rice bowls are made with sustainably caught local fish and locally grown produce." There is a section titled "Select extra toppings" with three options: "Avocado +\$2", "Tobiko +\$3", and "Scallions +\$.50". At the bottom is a prominent purple "ADD TO CART" button.

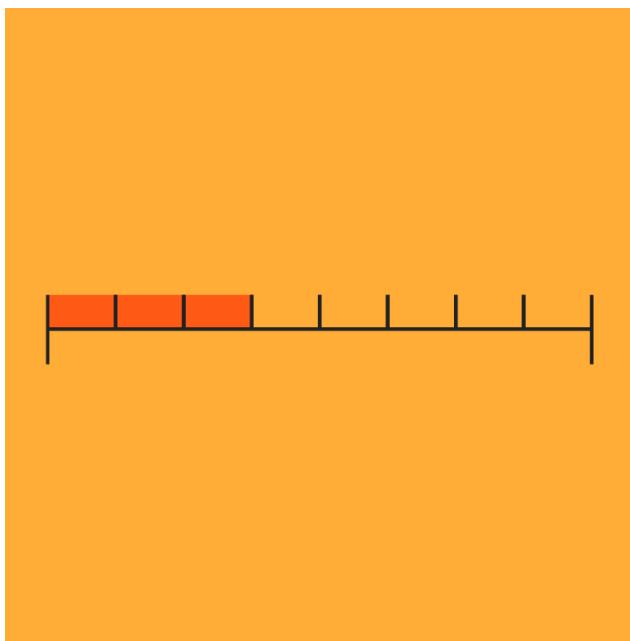
Penggunaan Tabs Bar

Tab dapat **dipasangkan** dengan komponen seperti **app bars**, atau bersarang di komponen seperti **cards and sheets**

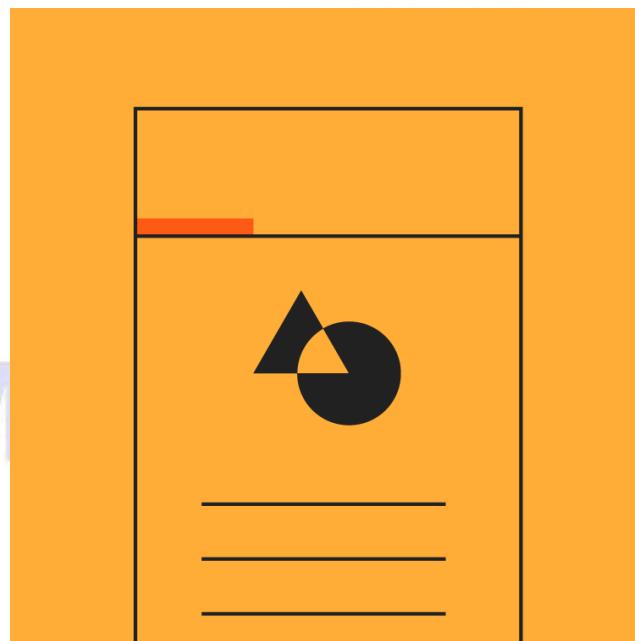


Principle of Floating Action Button

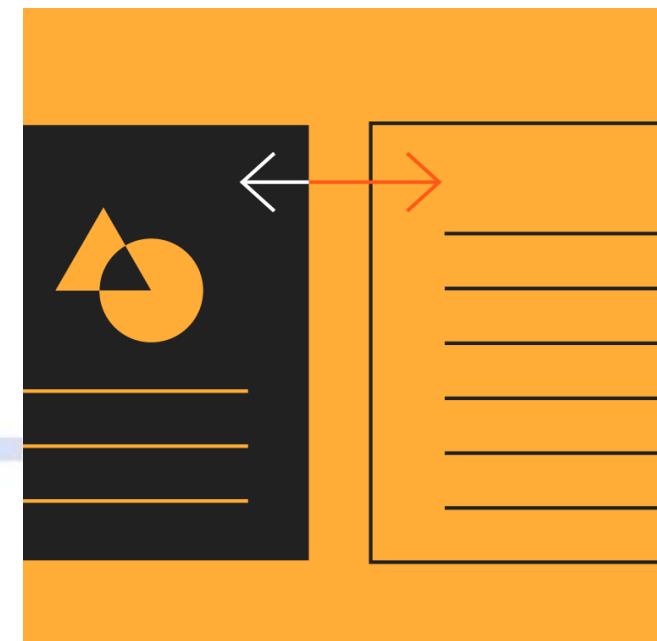
Scalable



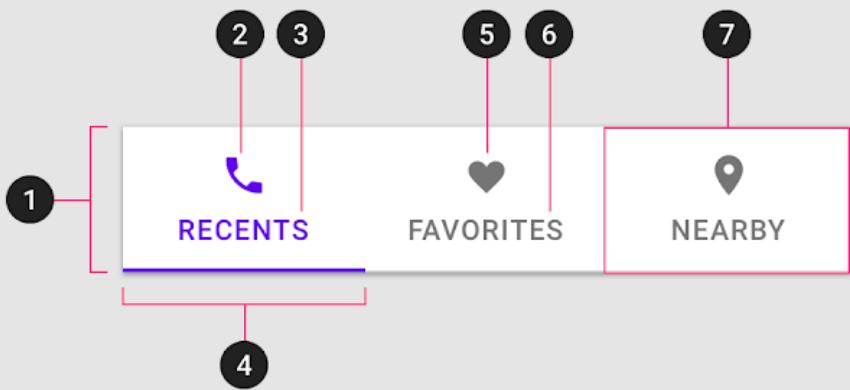
Informative



Peers

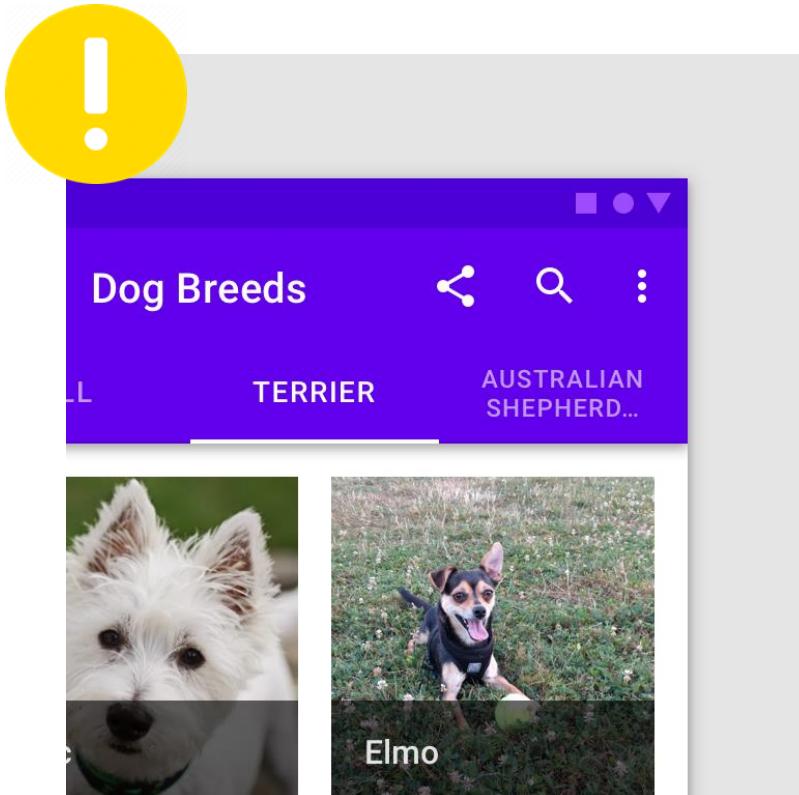


Anatomi

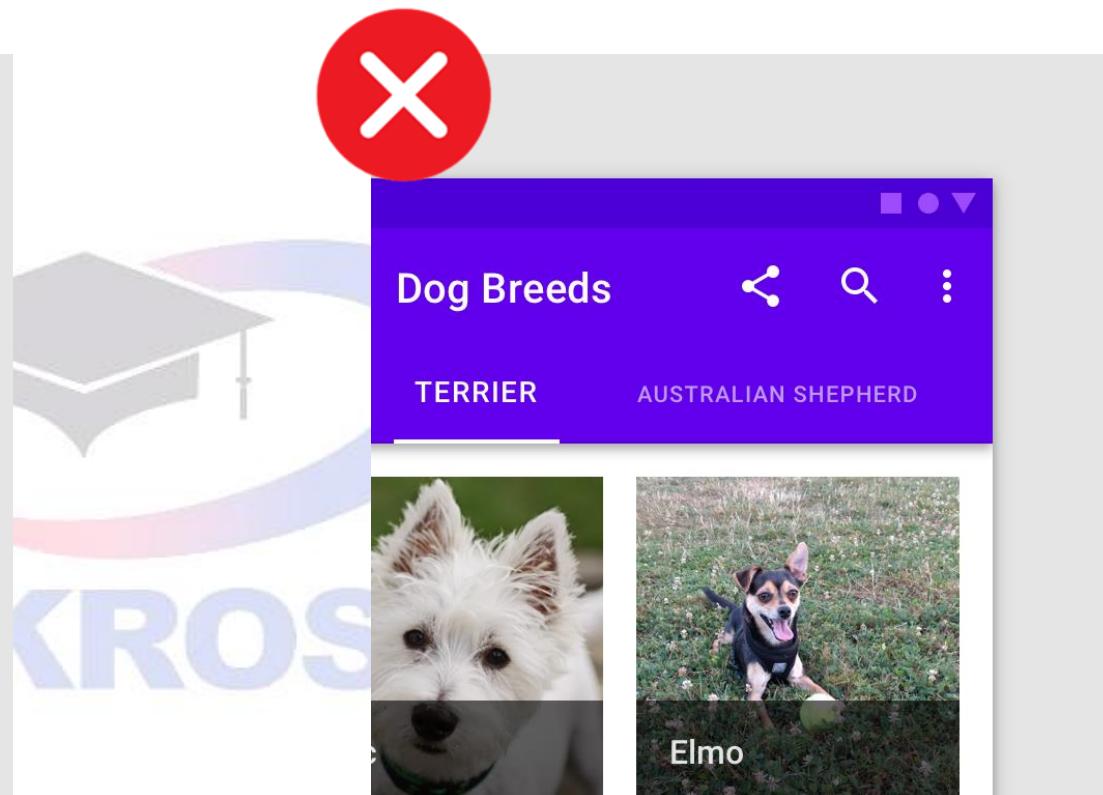


1. Container
2. Active icon (Optional)
3. Active text label (Optional)
4. Active tab indicator
5. Inactive icon (Optional)
6. Inactive text label (Optional)
7. Tab item

Anatomi (Text Label)

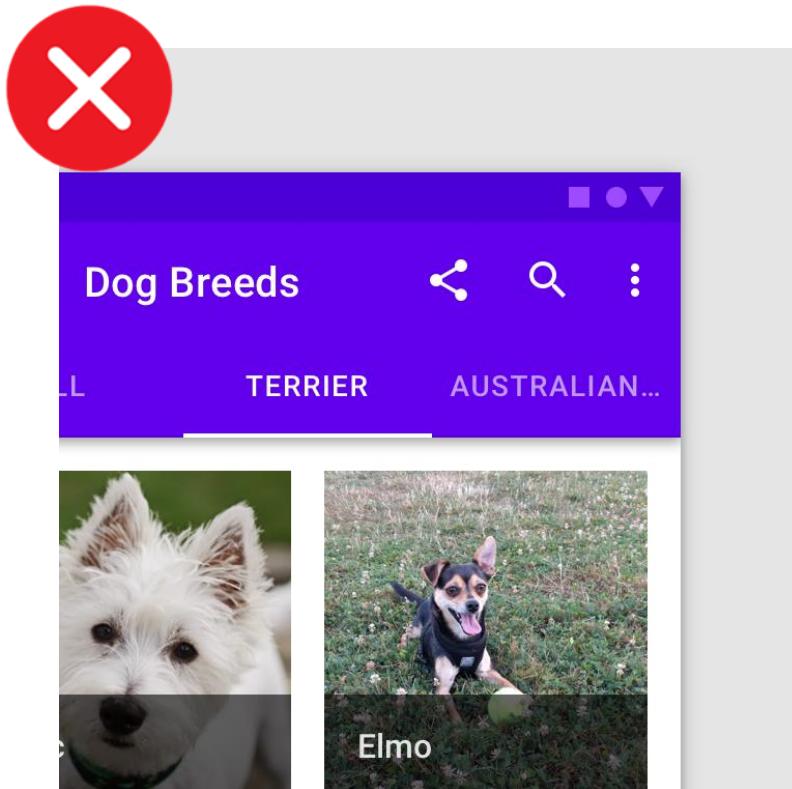


Hindari teks lebih dari 1 baris
pada label

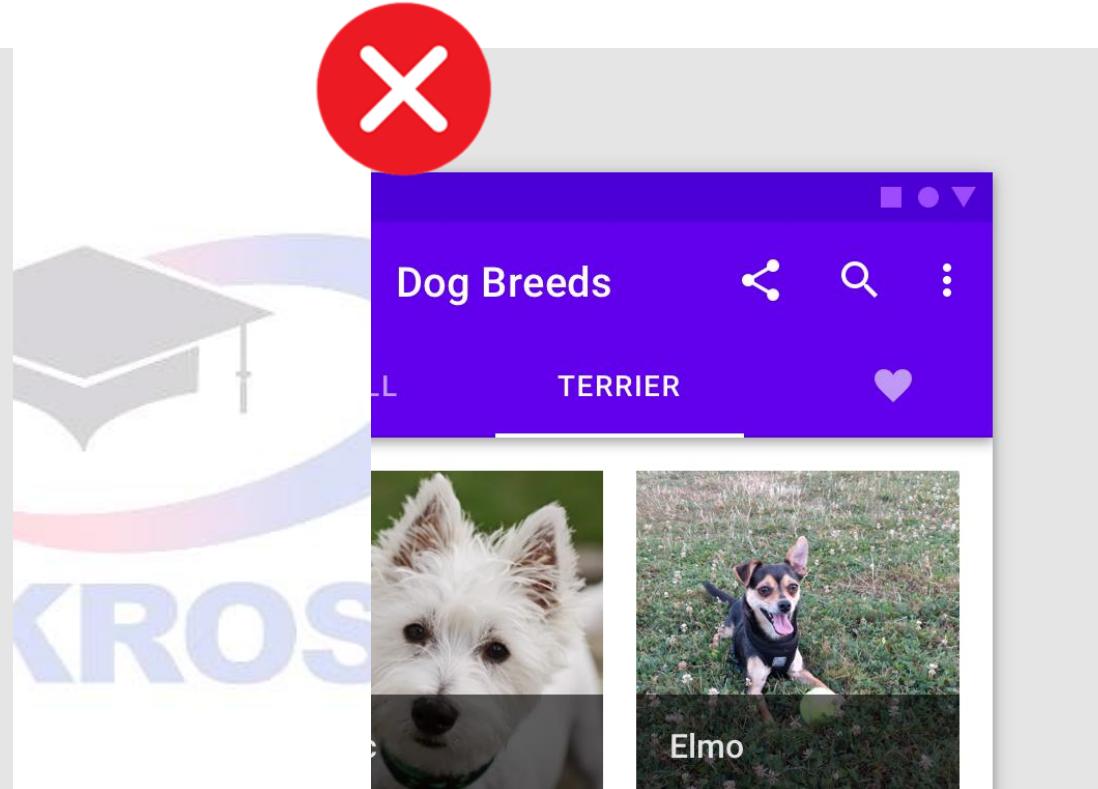


Jangan mengubah ukuran label
teks agar pas dengan satu baris

Anatomi (Text Label)



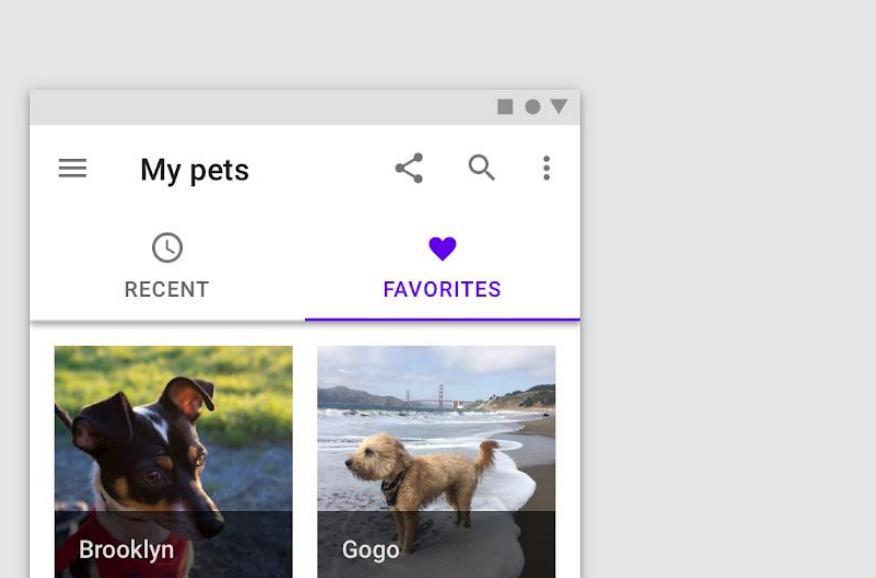
Jangan memotong label kecuali
diperlukan



Jangan campur tab berisi teks,
dengan yang hanya berisi ikon

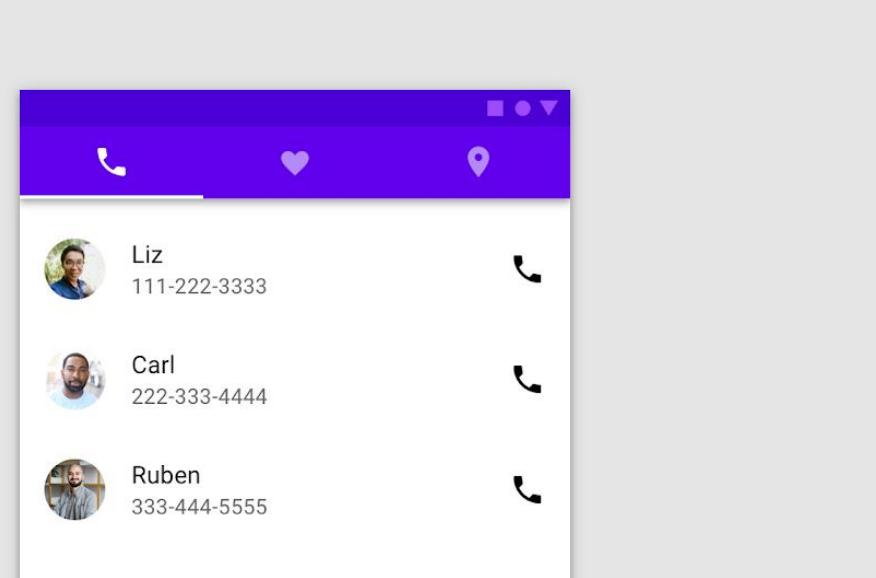
Anatomi (icon)

Mengomunikasikan jenis konten yang diwakili oleh tab dengan cara yang **sederhana** dan **mudah dikenali**



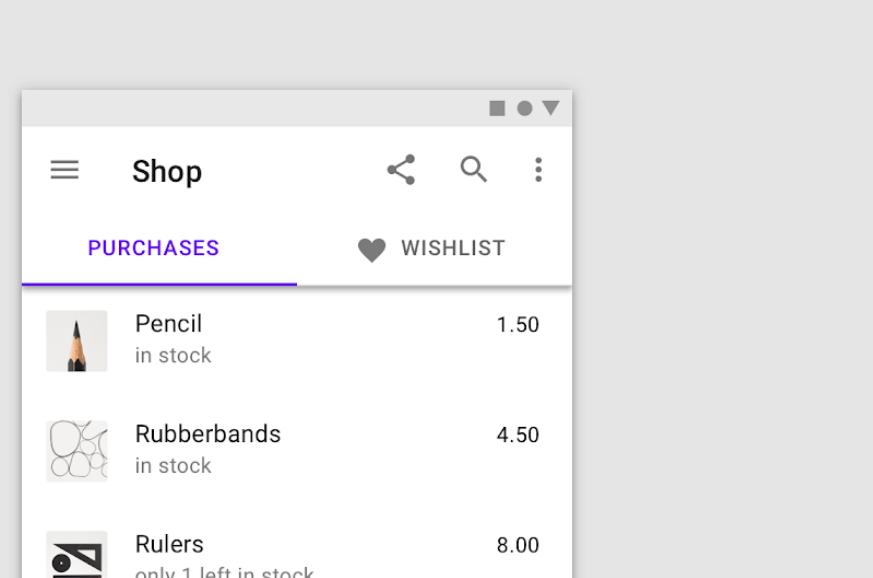
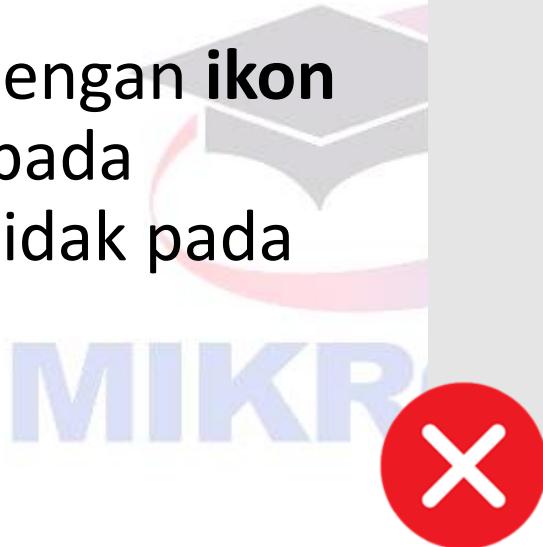
Anatomi (icon)

Tab dapat menggunakan **icon** untuk mengomunikasikan **konten**



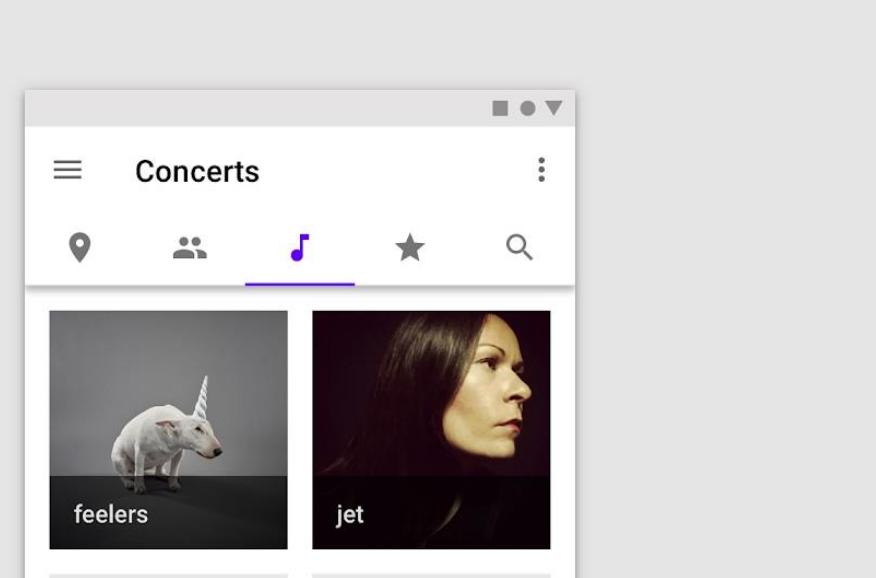
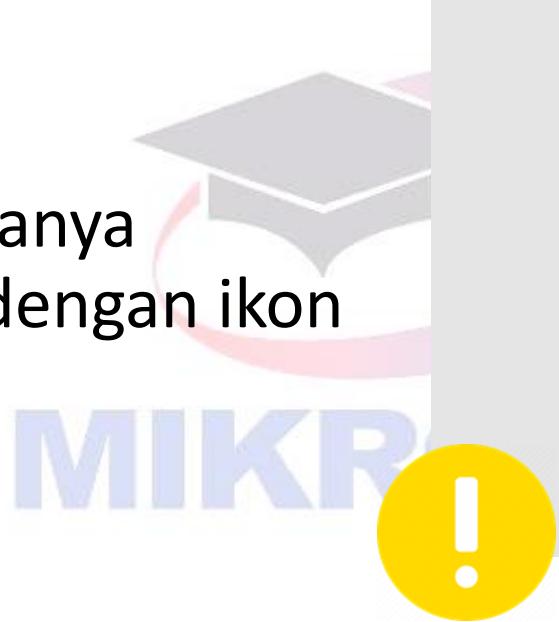
Anatomi (icon)

Jangan gunakan tab dengan **ikon dan label** teks hanya pada beberapa tab, tetapi tidak pada tab lainnya



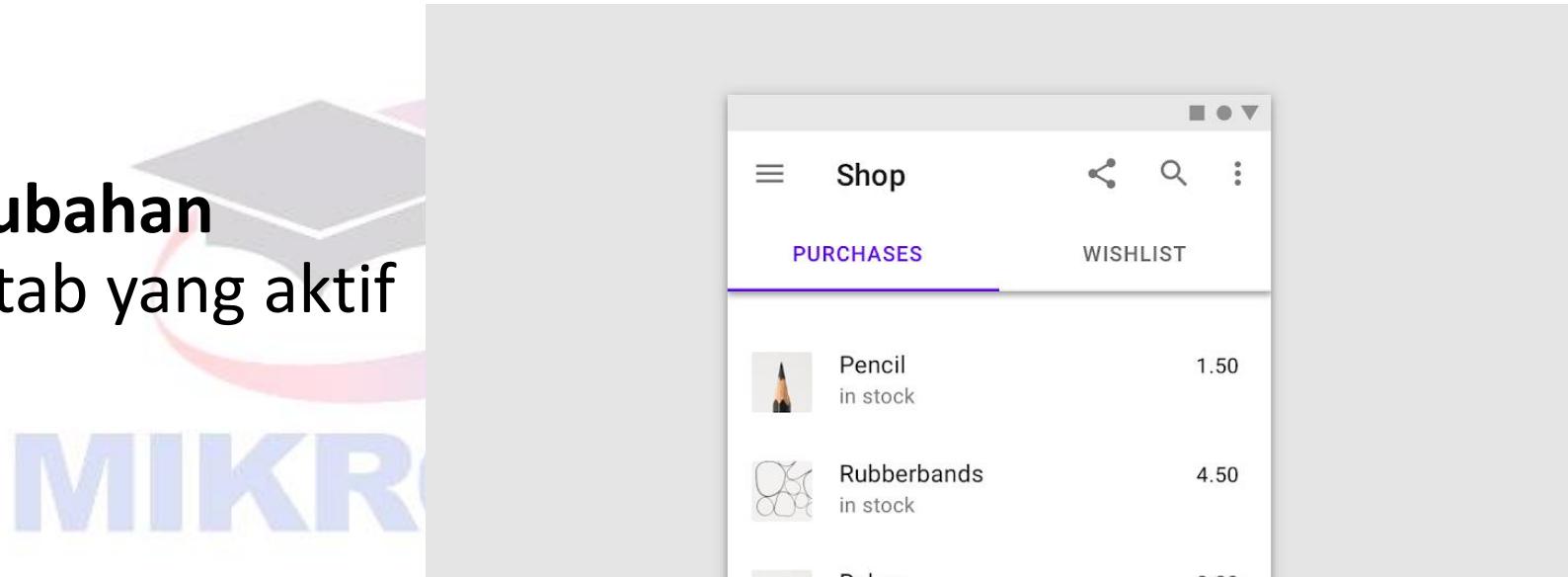
Anatomi (icon)

Berhati-hatilah saat hanya mewakili konten tab dengan ikon

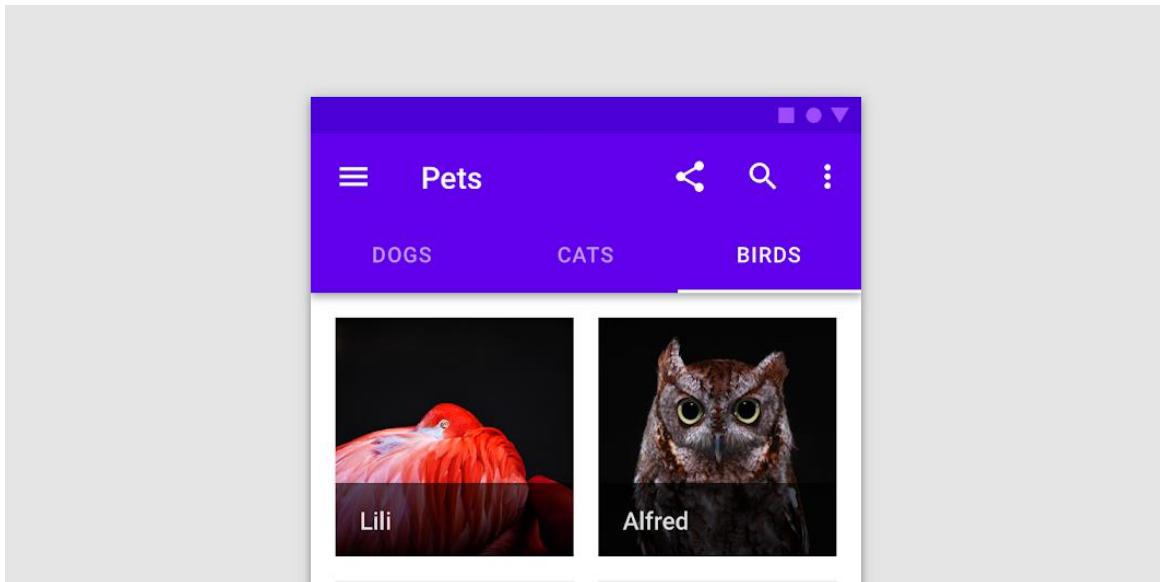


Anatomi (active tab indicators)

Garis bawah dan perubahan warna membedakan tab yang aktif dari yang tidak aktif



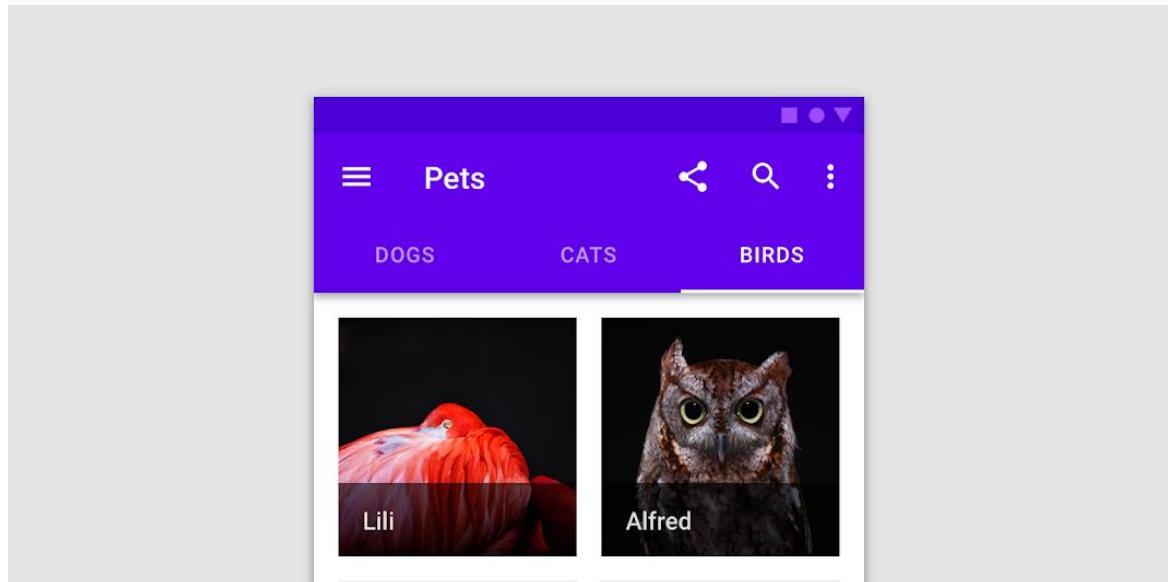
Jenis Tabs Bar



Fixed tabs

Menampilkan semua tab pada satu layar, dengan setiap tab dengan lebar tetap

Jenis Tabs Bar



Scollable tabs

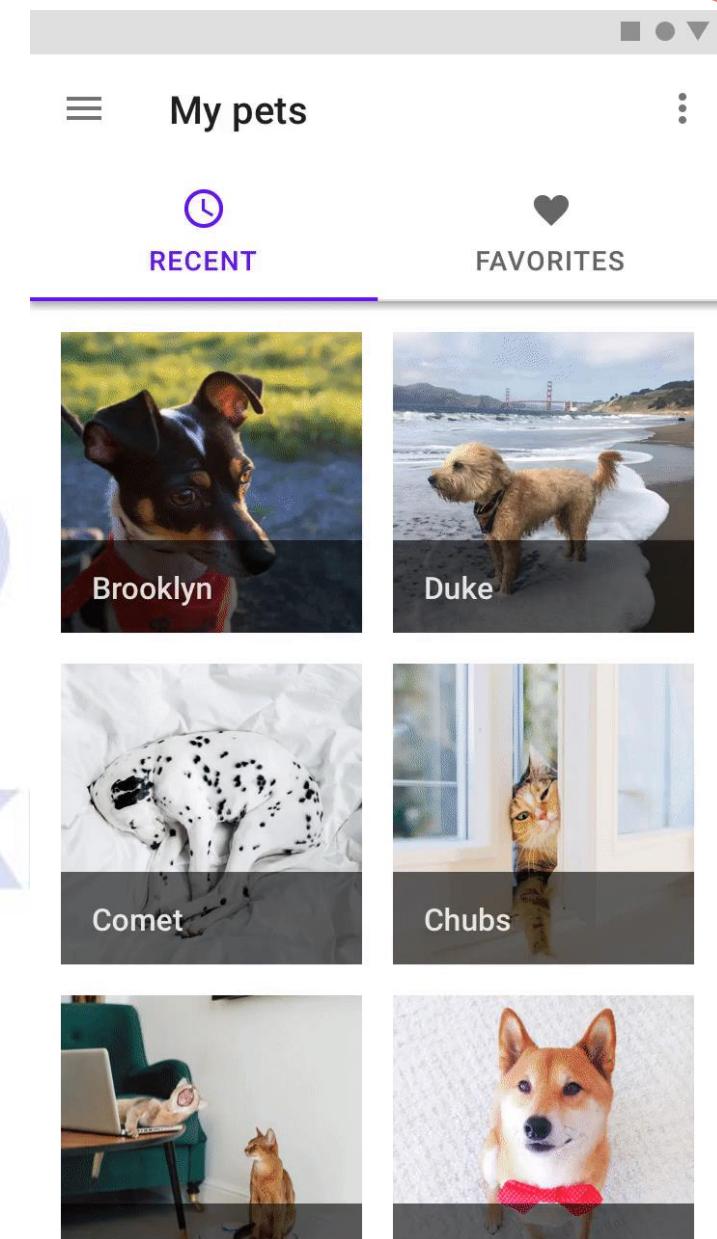
Dapat digulir ditampilkan tanpa lebar tetap, sehingga beberapa tab akan tetap berada di luar layar hingga digulir

Behavior

Moving between tabs

Tap a tab

Arahkan ke tab dengan mengetuknya

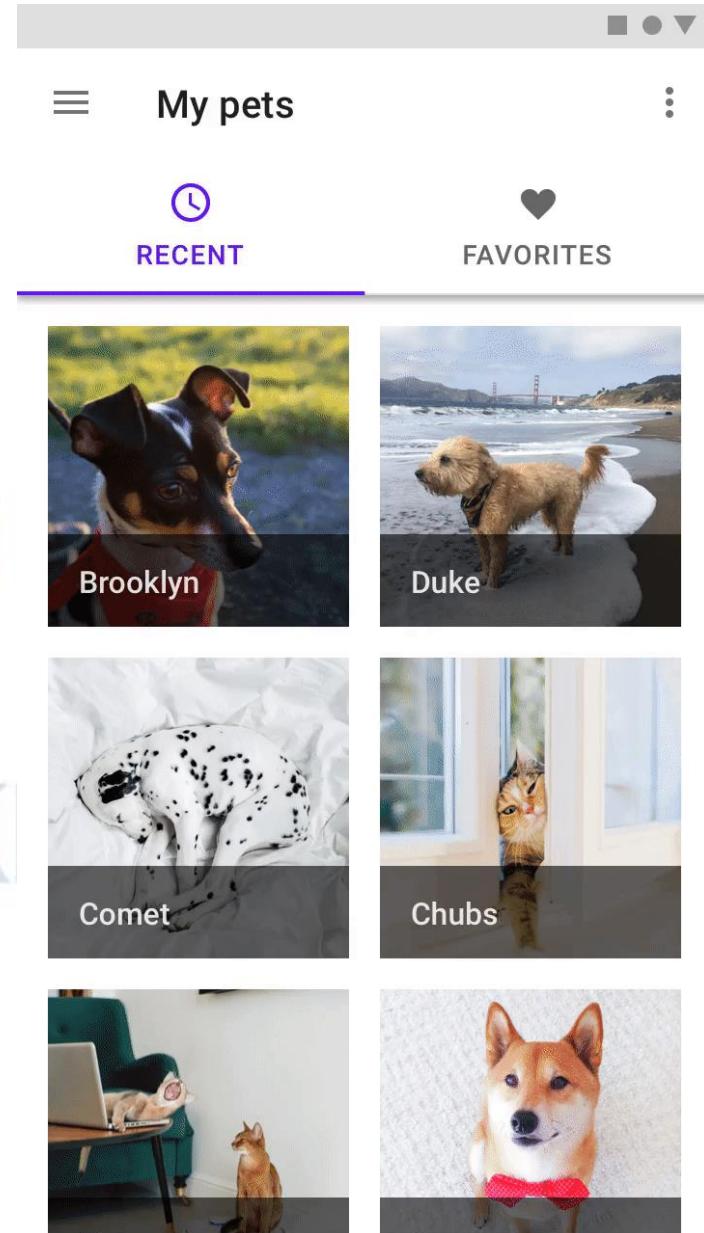


Behavior

Moving between tabs

Swipe within the content area

Untuk menavigasi antar tab, pengguna dapat **menggesek ke kiri atau kanan** di dalam area konten.



Behavior

Moving between tabs

Swipe within the content area

Berhati-hatilah saat menempatkan konten yang dapat digesek di UI yang memiliki tab



The screenshot shows a mobile application window with a header 'My pets' and a menu icon. Below the header are two tabs: 'RECENT' (selected, indicated by a purple underline) and 'FAVORITES'. A 'SEE ALL' button is located in the top right of the content area. The main content is titled 'Cosmopolitan birds' with the subtitle 'Cosmopolitan distribution'. Three bird images are shown: a Cattle egret, an Owl, and a Pelican. A yellow circular icon with a white exclamation mark is overlaid at the bottom left of the content area.

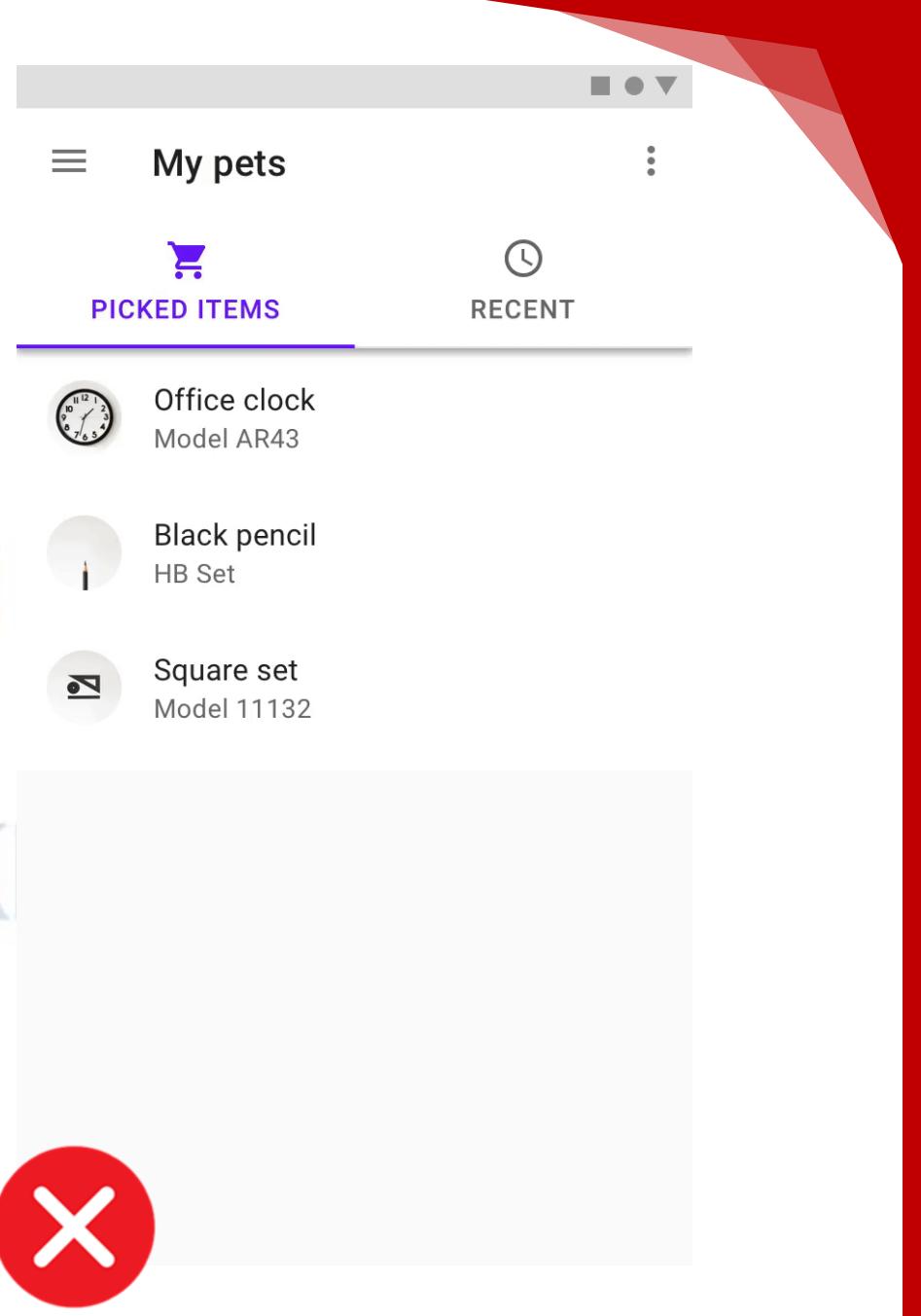
Cosmopolitan distributions can be observed both in extinct and extant species. For example, *Lystrosaurus* was cosmopolitan in the Early Triassic mass extinction.

Behavior

Moving between tabs

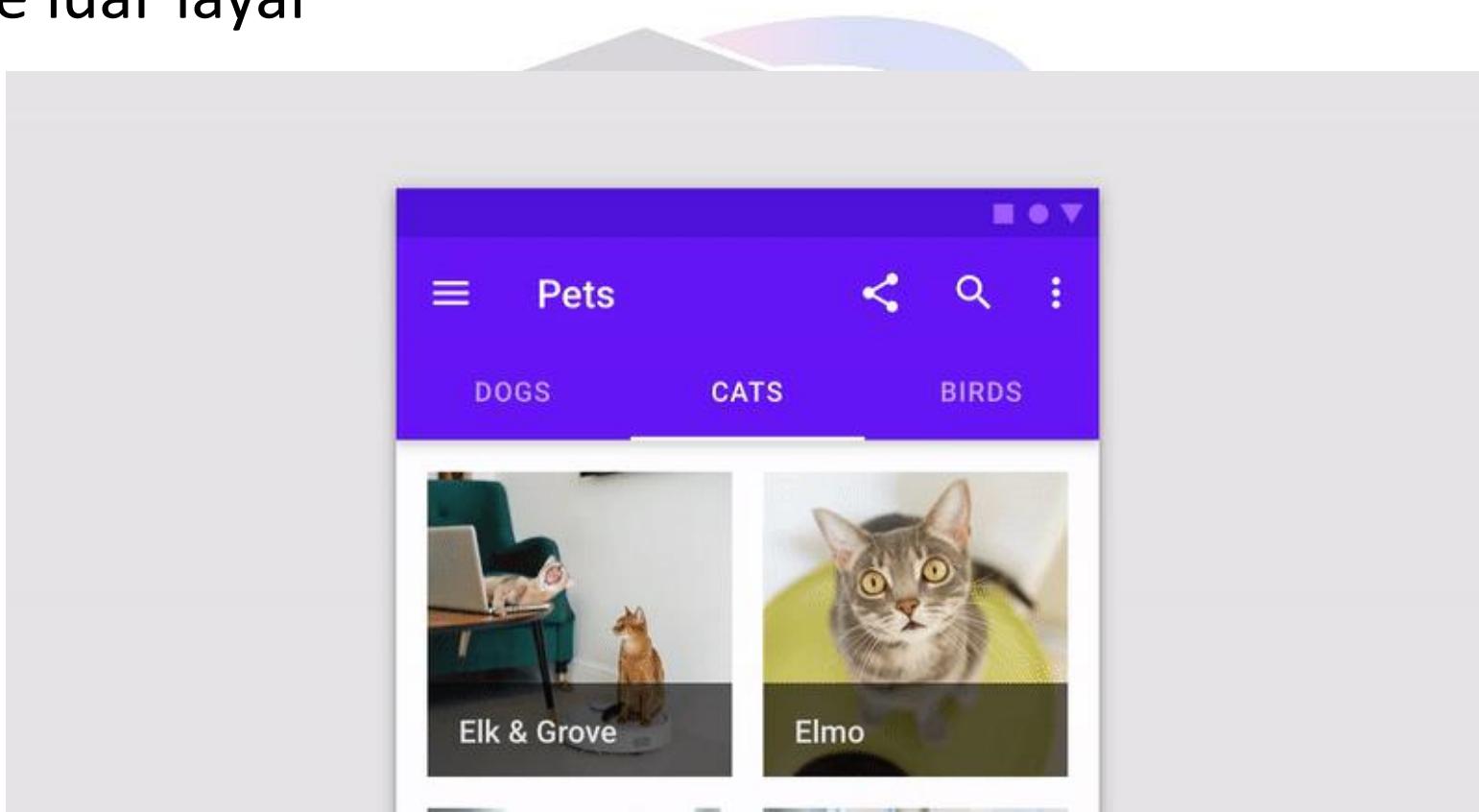
Swipe within the content area

Hindari menempatkan item yang dapat digesek di area konten UI yang memiliki tab



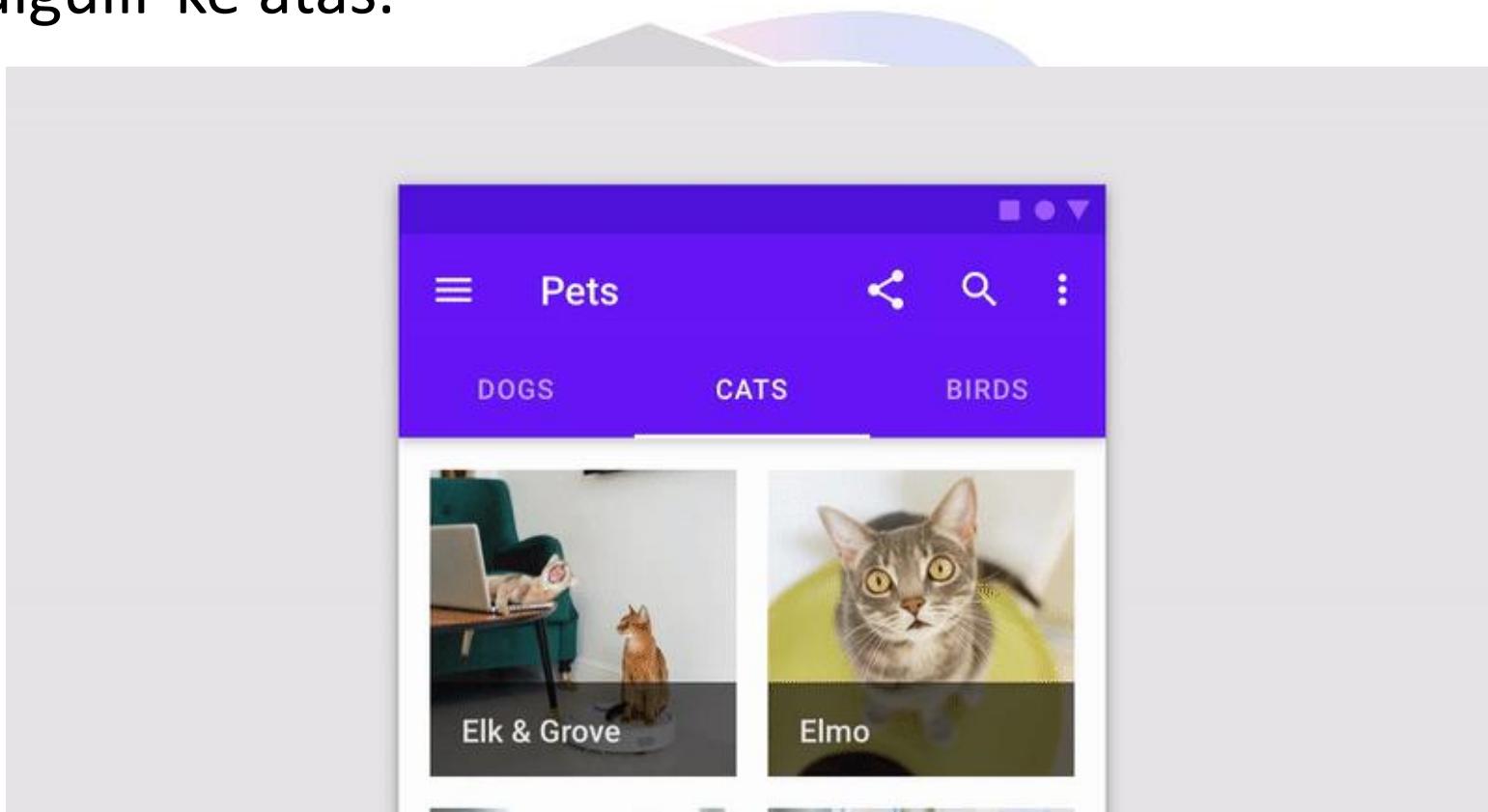
Behavior Scrolling

Saat layar di scroll, tab dapat dipasang di bagian atas layar, atau scrolling ke luar layar



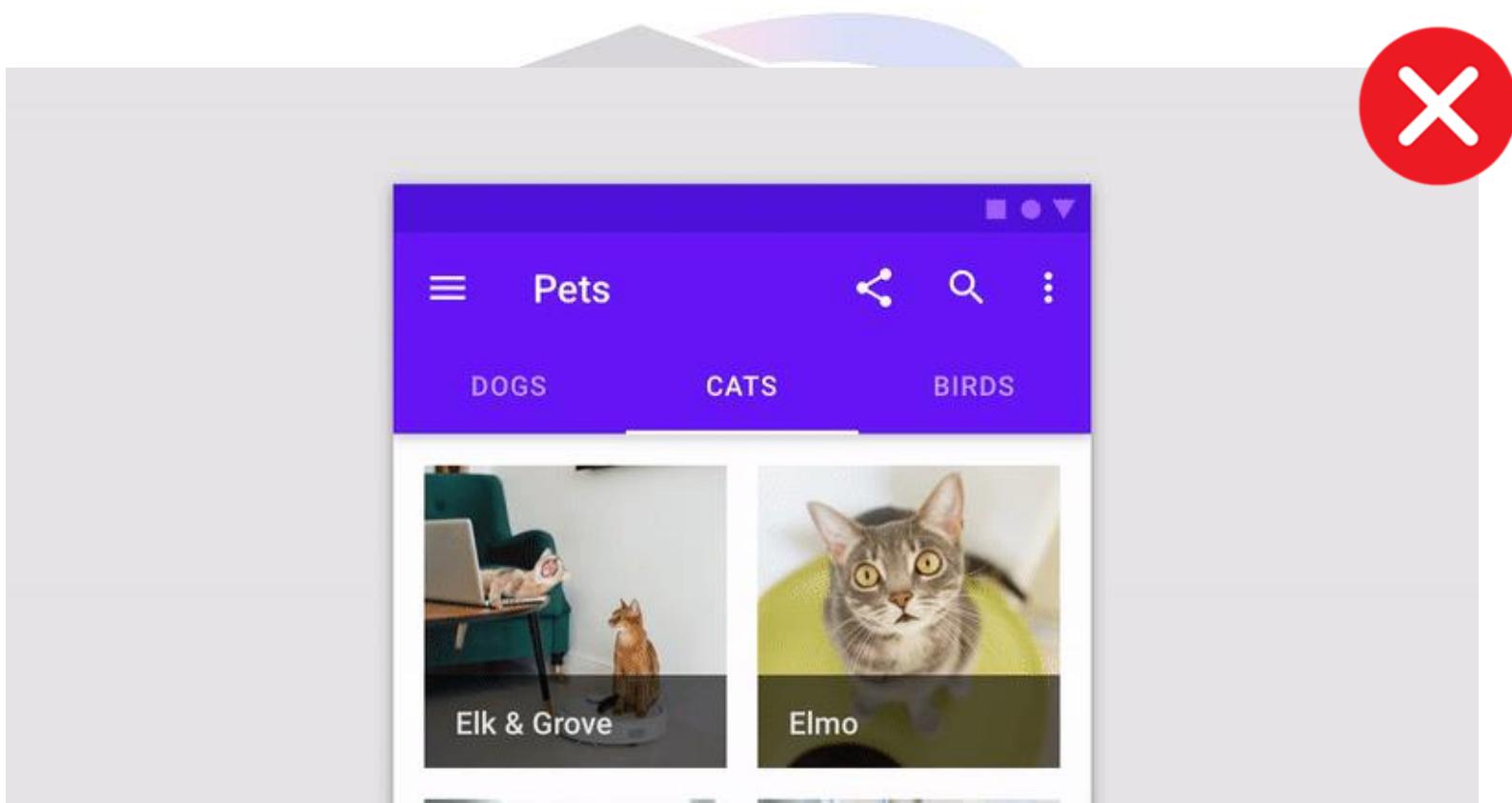
Behavior Scrolling

Tab dapat digulir ke luar layar saat digulir, dan muncul kembali saat halaman digulir ke atas.



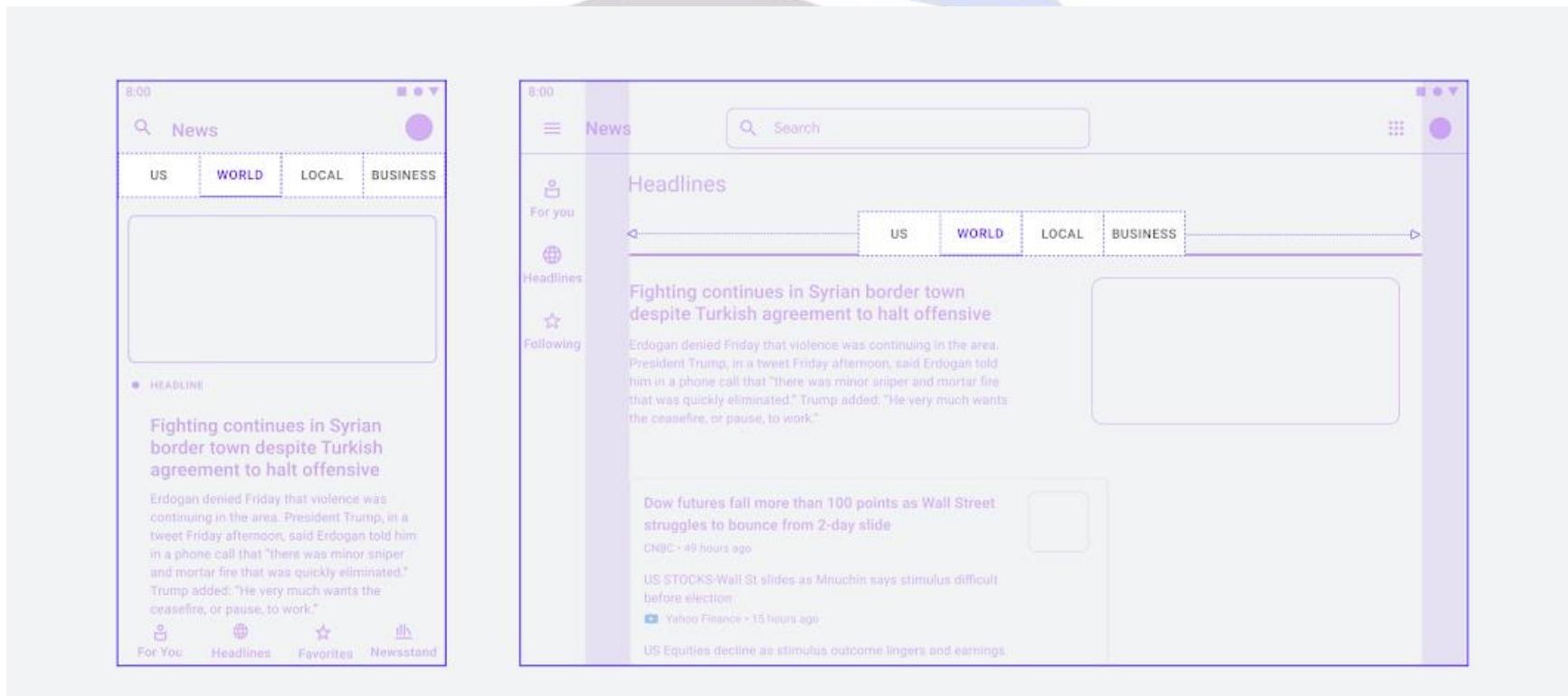
Behavior Scrolling

Jangan gulir tab di belakang bilah aplikasi atas



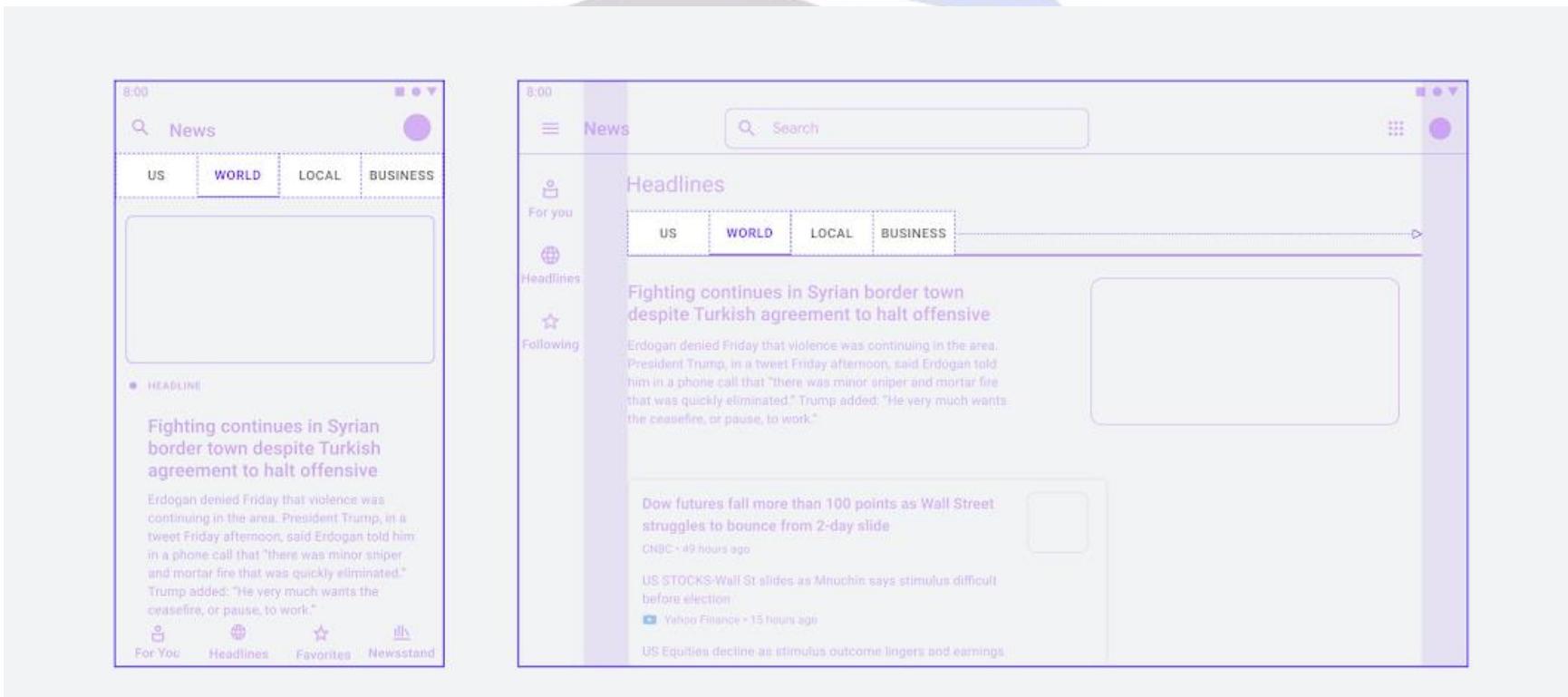
Behavior Penskalaan dan adaptasi

Pada breakpoint yang lebih besar, lebar tab minimum dapat ditingkatkan dan grup tab dapat diposisikan di tengah



Behavior Scaling and adaptation

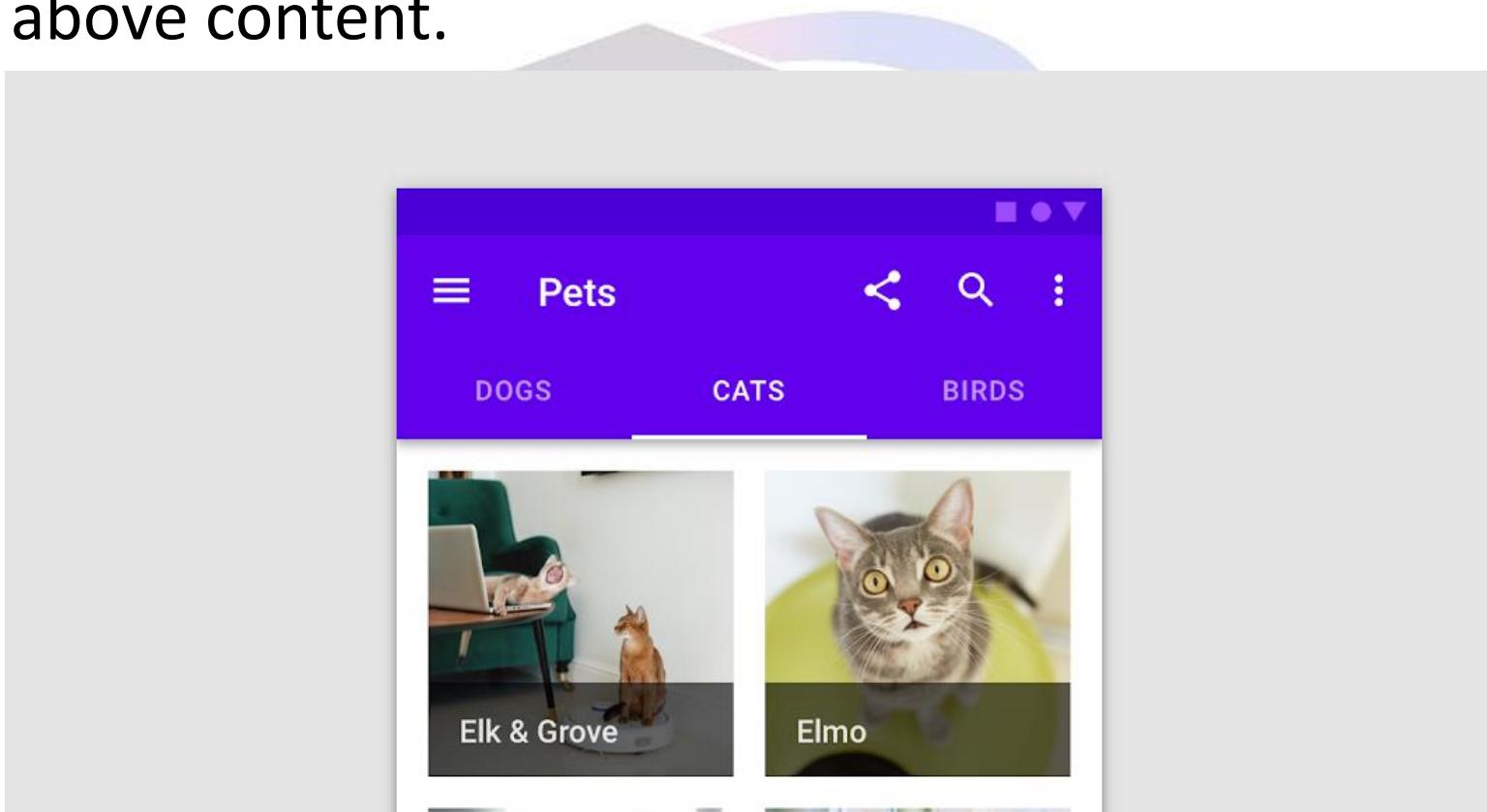
Grup tab juga dapat disejajarkan dengan tepi depan wadah, seperti yang terlihat pada diagram tata letak yang lebih besar di sebelah kanan



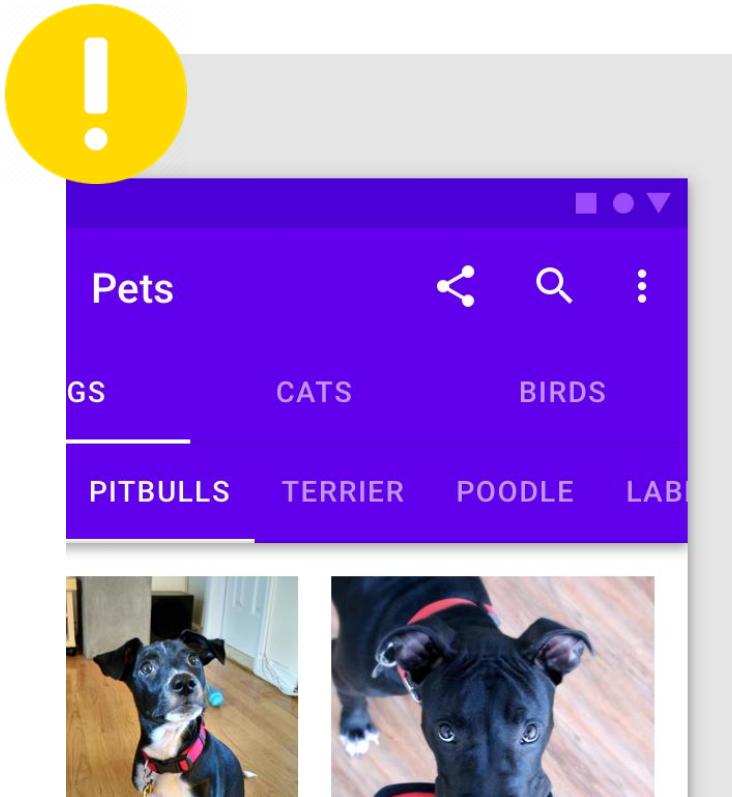
Behavior Placement

Tab layout

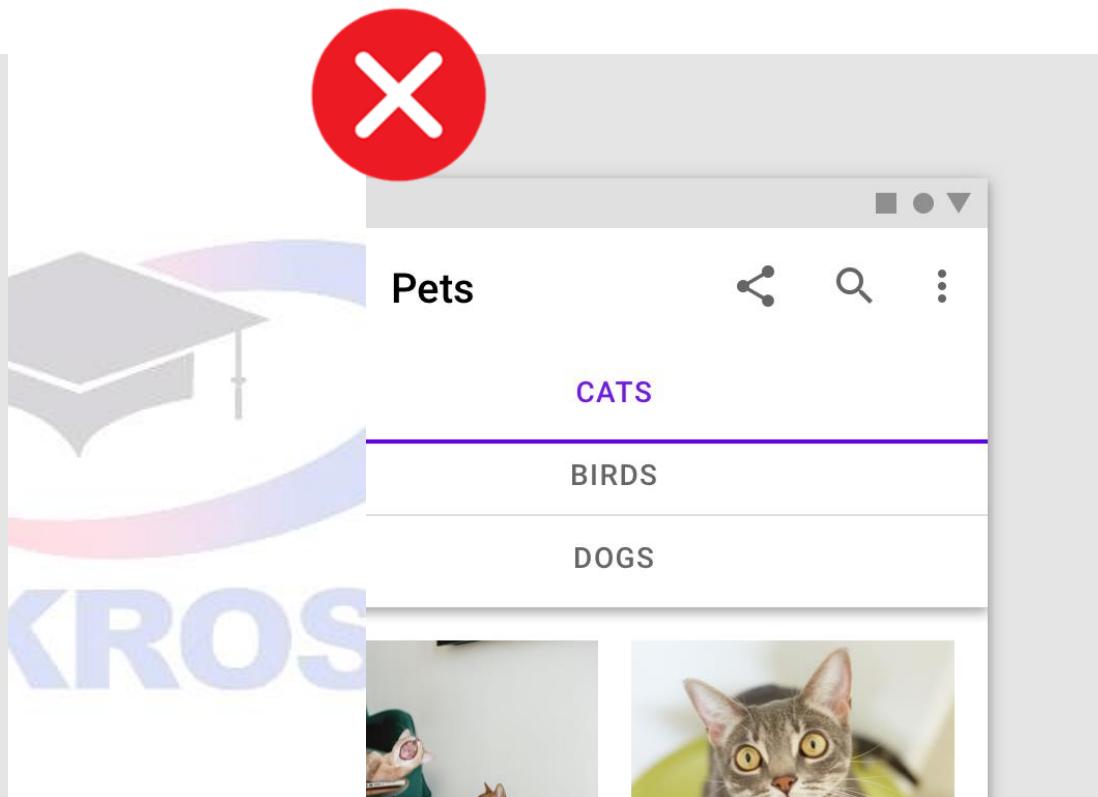
Place tabs above content.



Anatomi (Placement)



Hindari menyerangkan tab di dalam tab lain

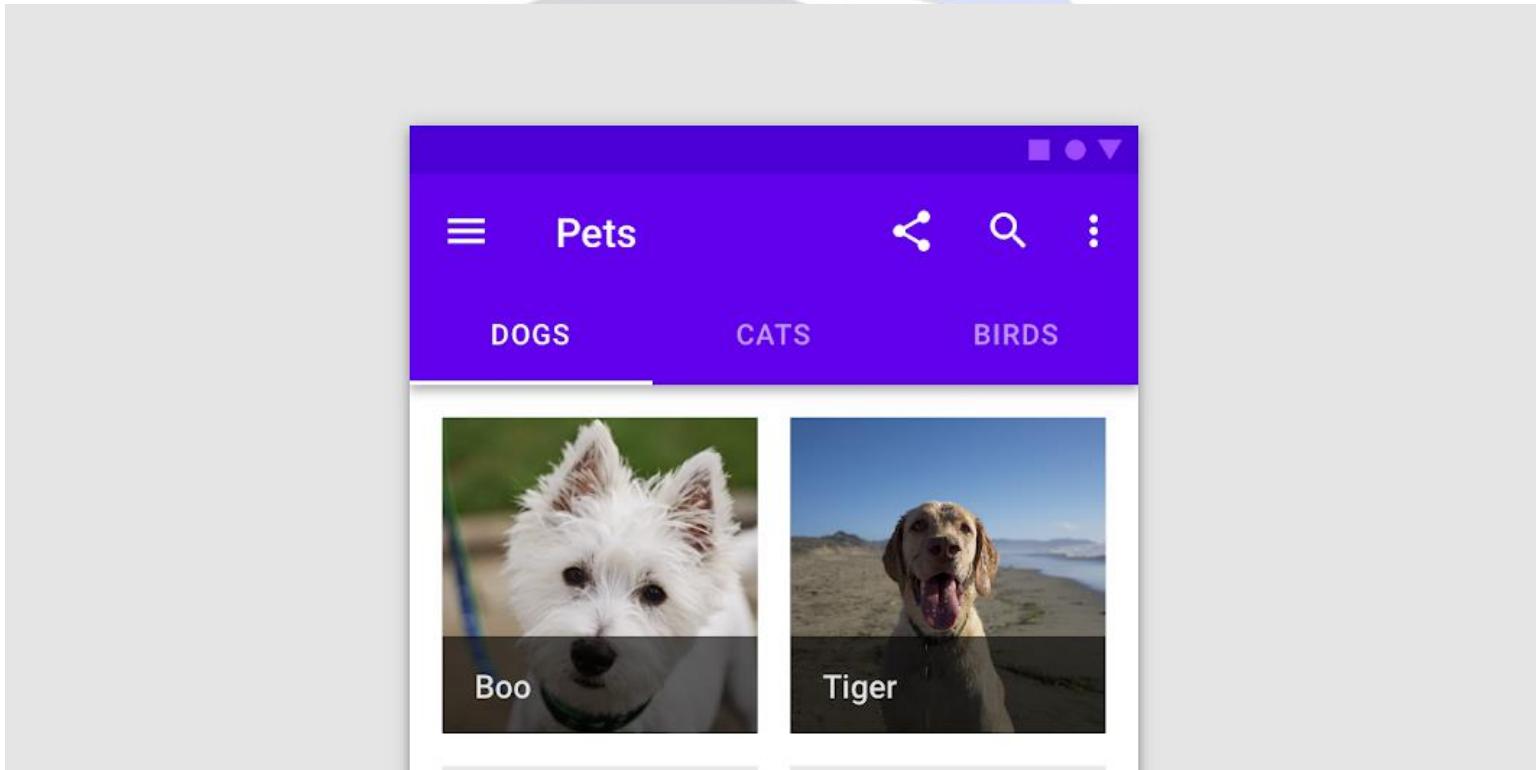


Jangan letakkan tab di bawah satu sama lain

Behavior Placement

Tab placement

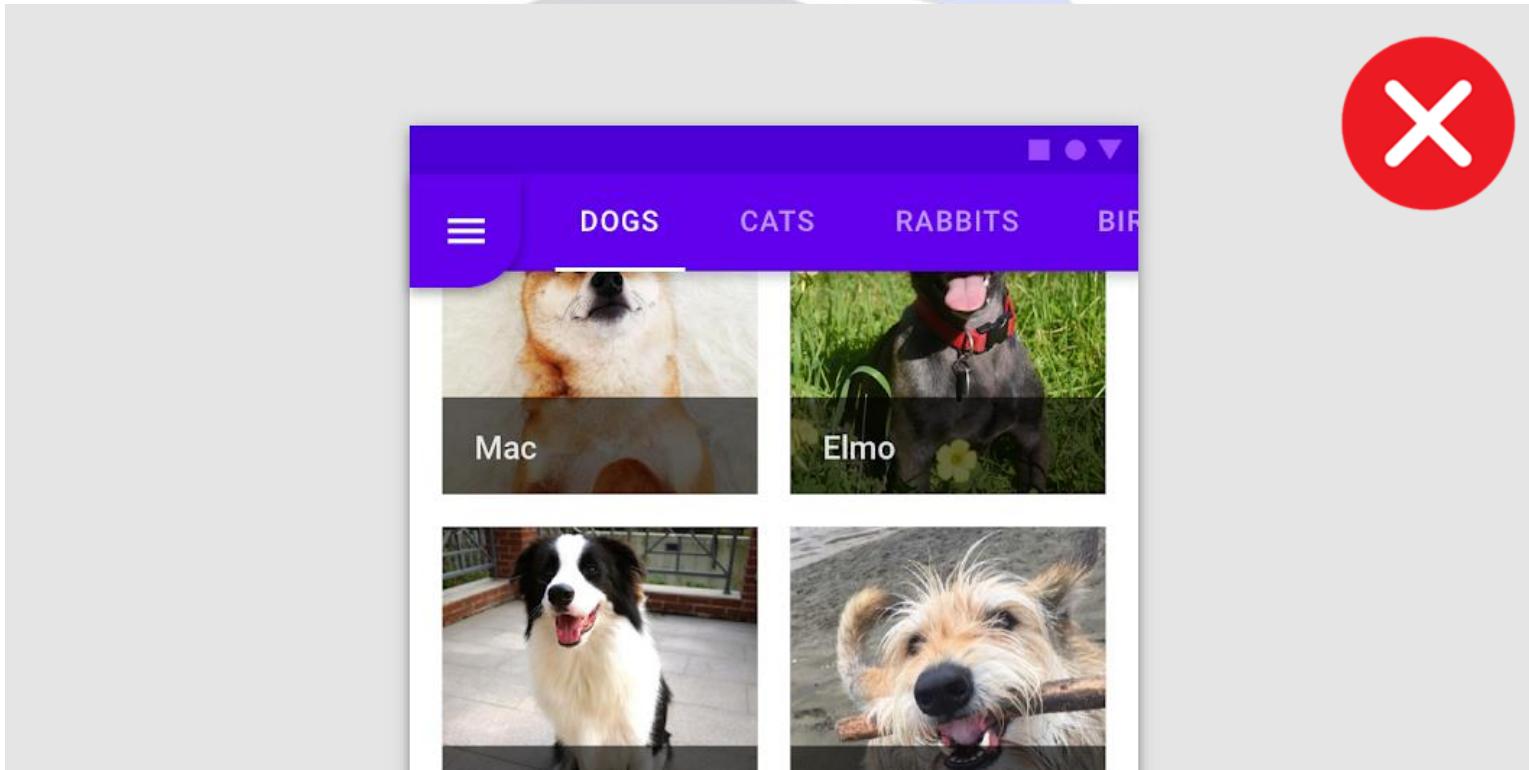
Tab di bawah bilah aplikasi teratas



Behavior Placement

Tab placement

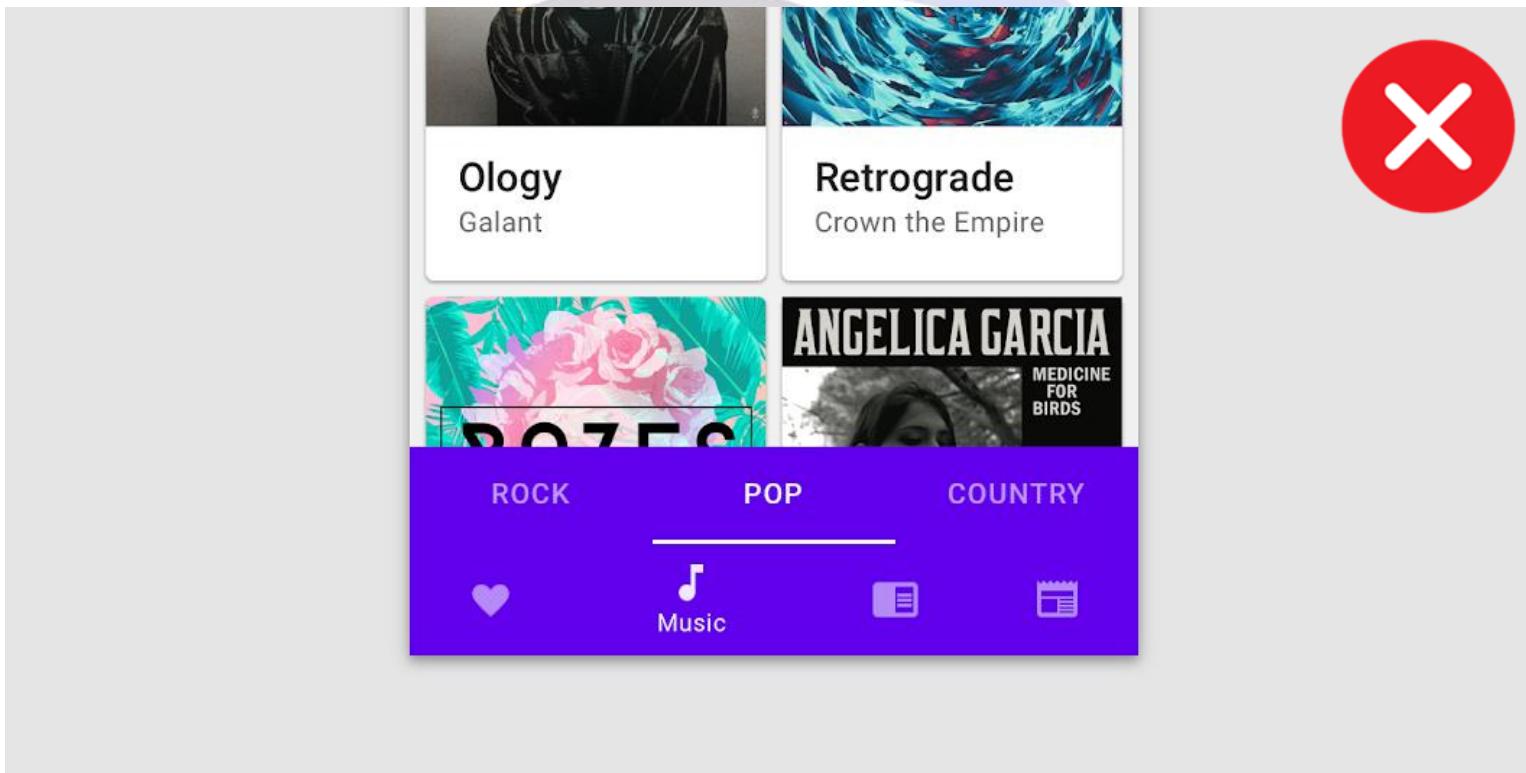
Jangan gunakan tab dengan short top app bars, atau top app bars yang bertransisi ke short top app bars saat scroll.



Behavior Placement

Tab placement

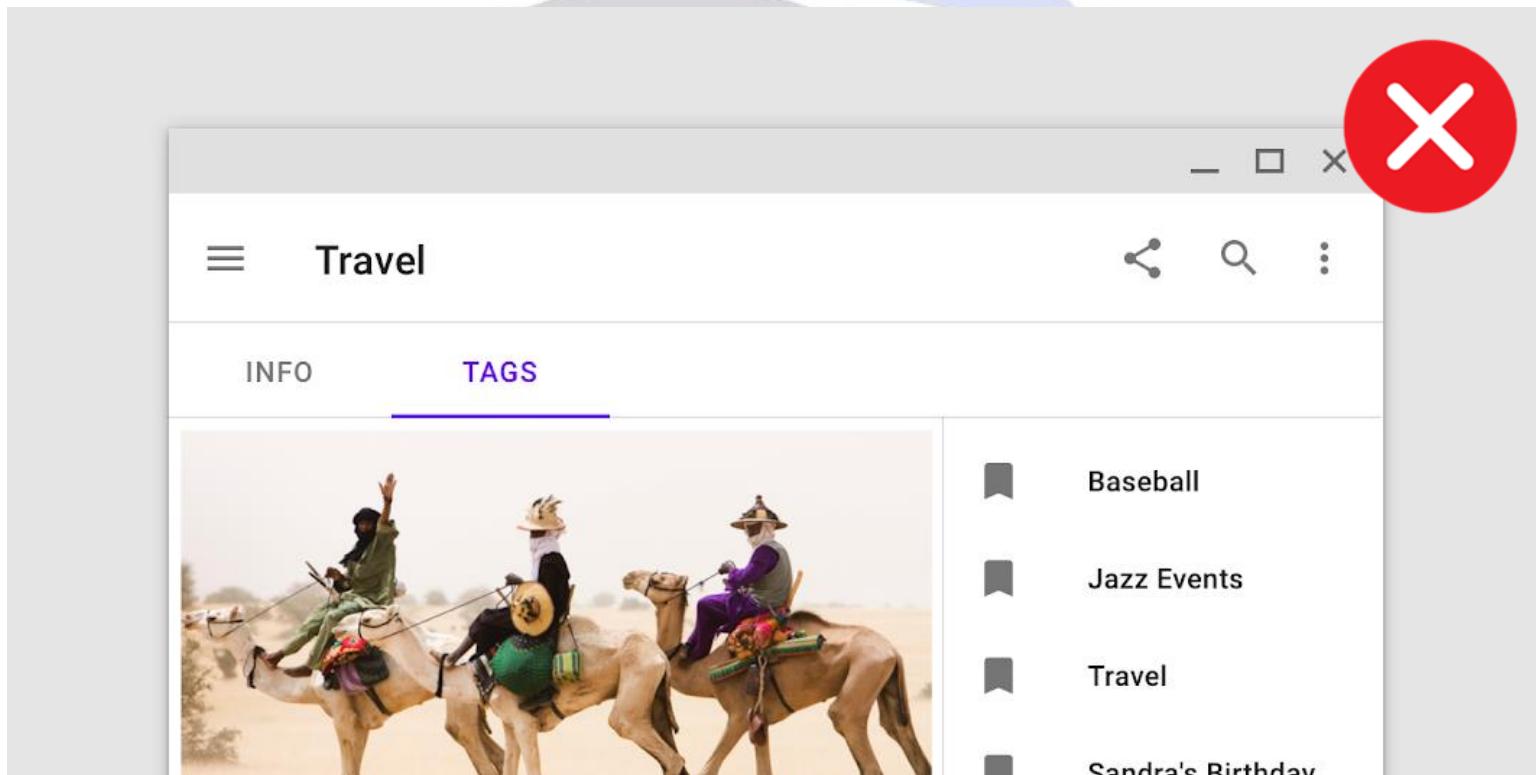
Jangan lampirkan tab ke bottom navigation



Behavior Placement

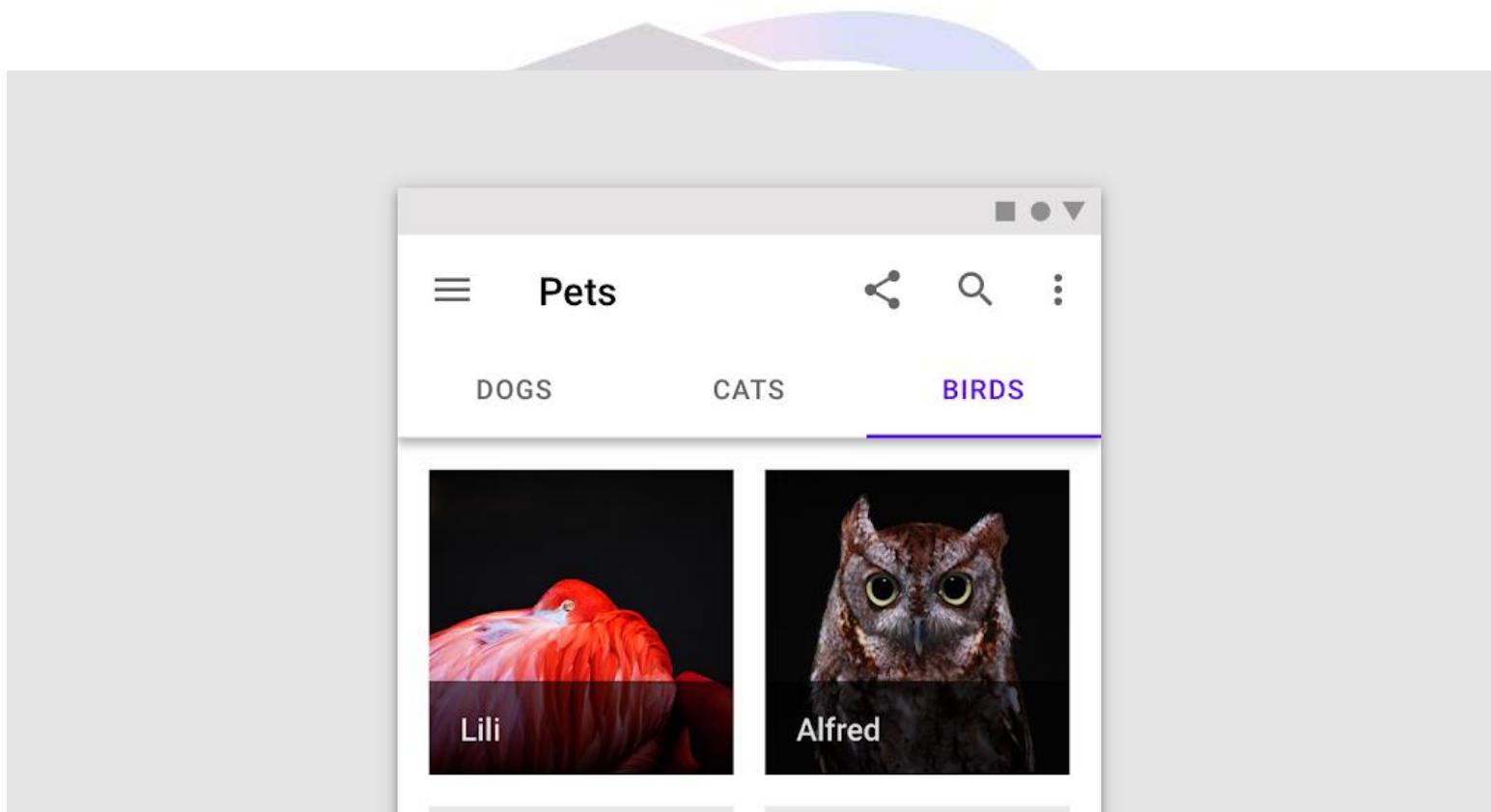
Tab placement

Jangan letakkan tab di atas konten yang tidak dikontrol



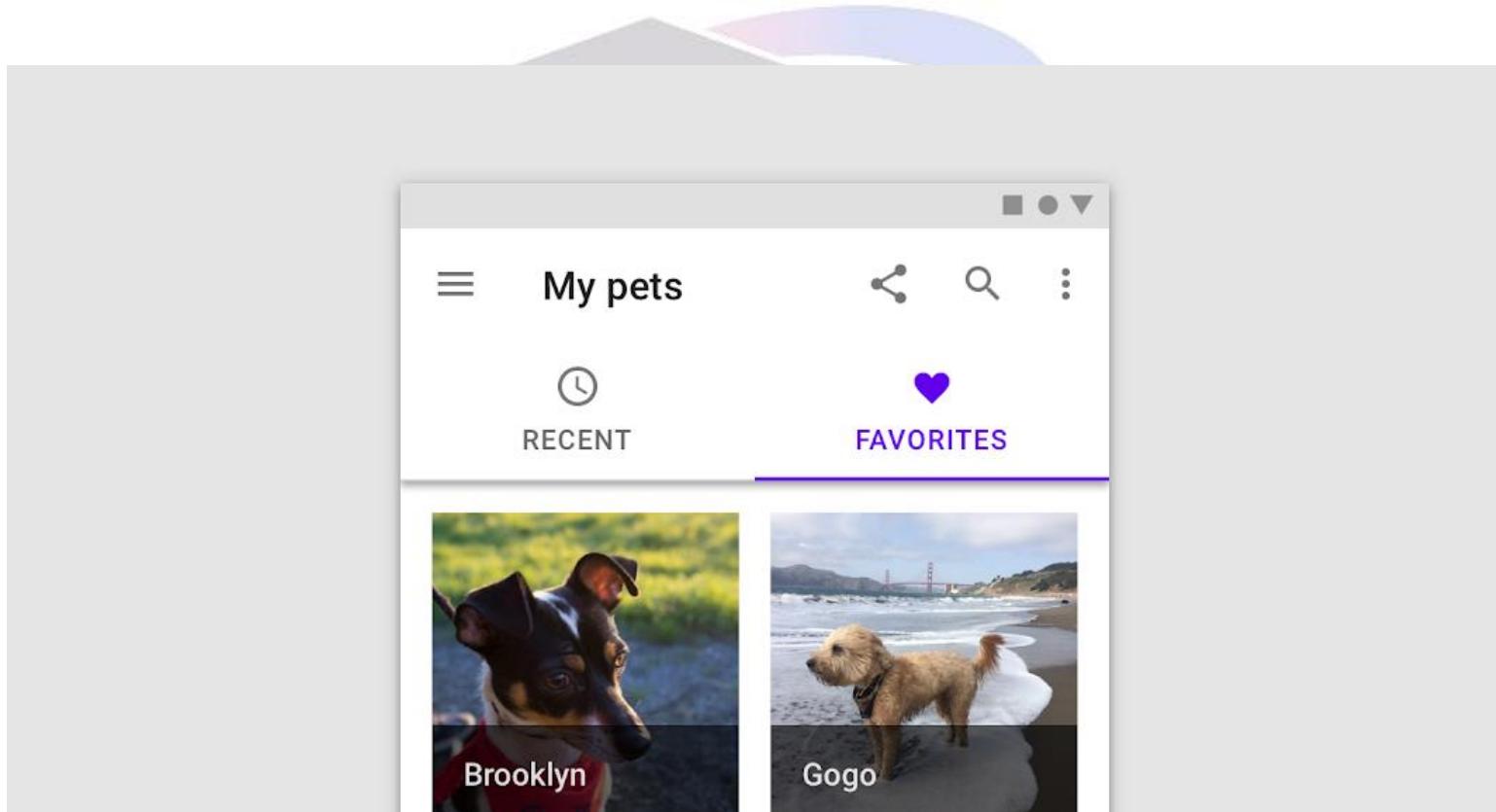
Fixed tabs

Gunakan tab tetap saat menampilkan kategori dalam jumlah terbatas



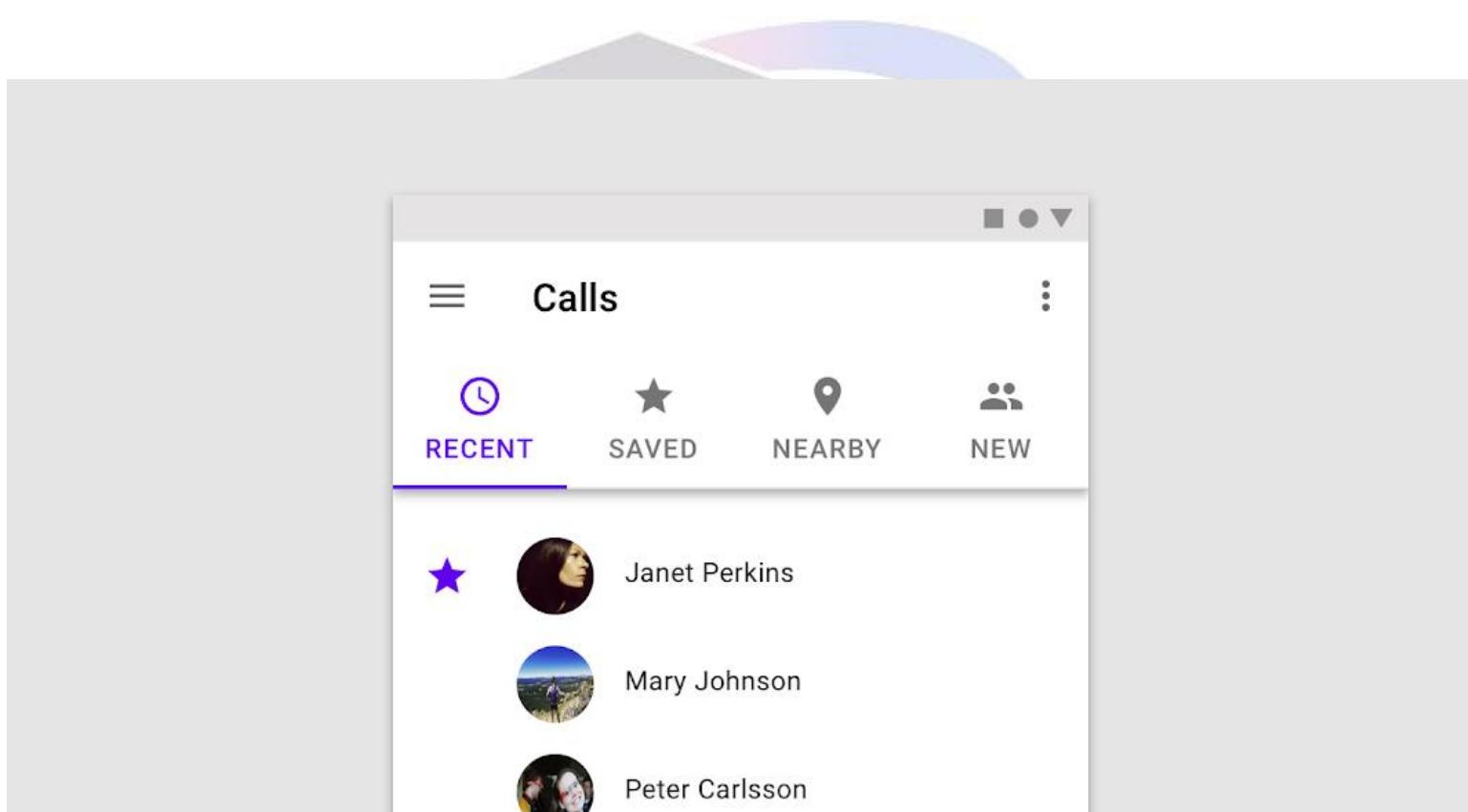
Fixed tabs

Fixed tab menggunakan iconography dan label



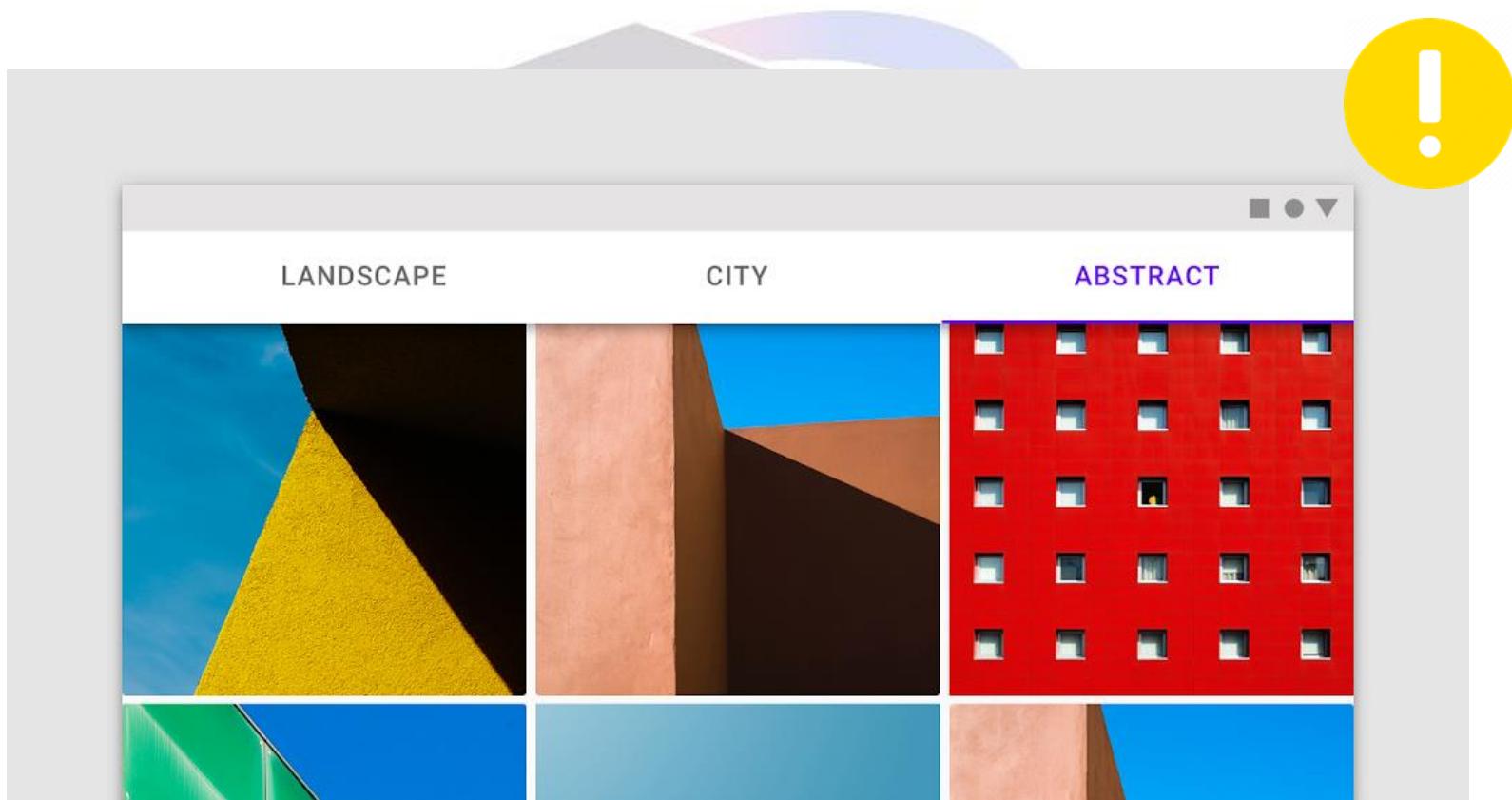
Fixed tabs

- Lebar layar dibagi dengan jumlah tab
- Lebar label tab terluas



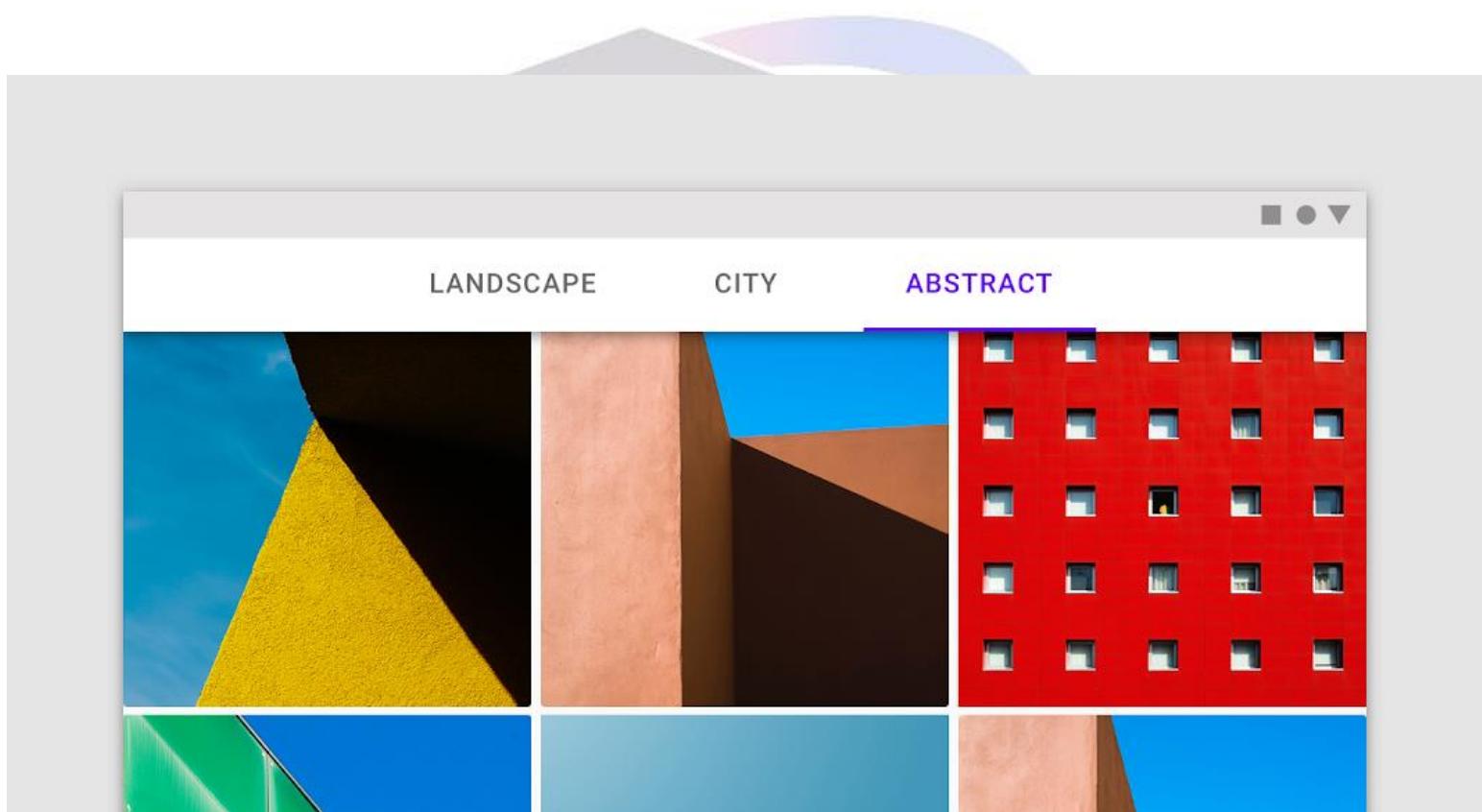
Fixed tabs

Hindari lebar tab ini sejajar dengan kolom dalam tata letak ini.



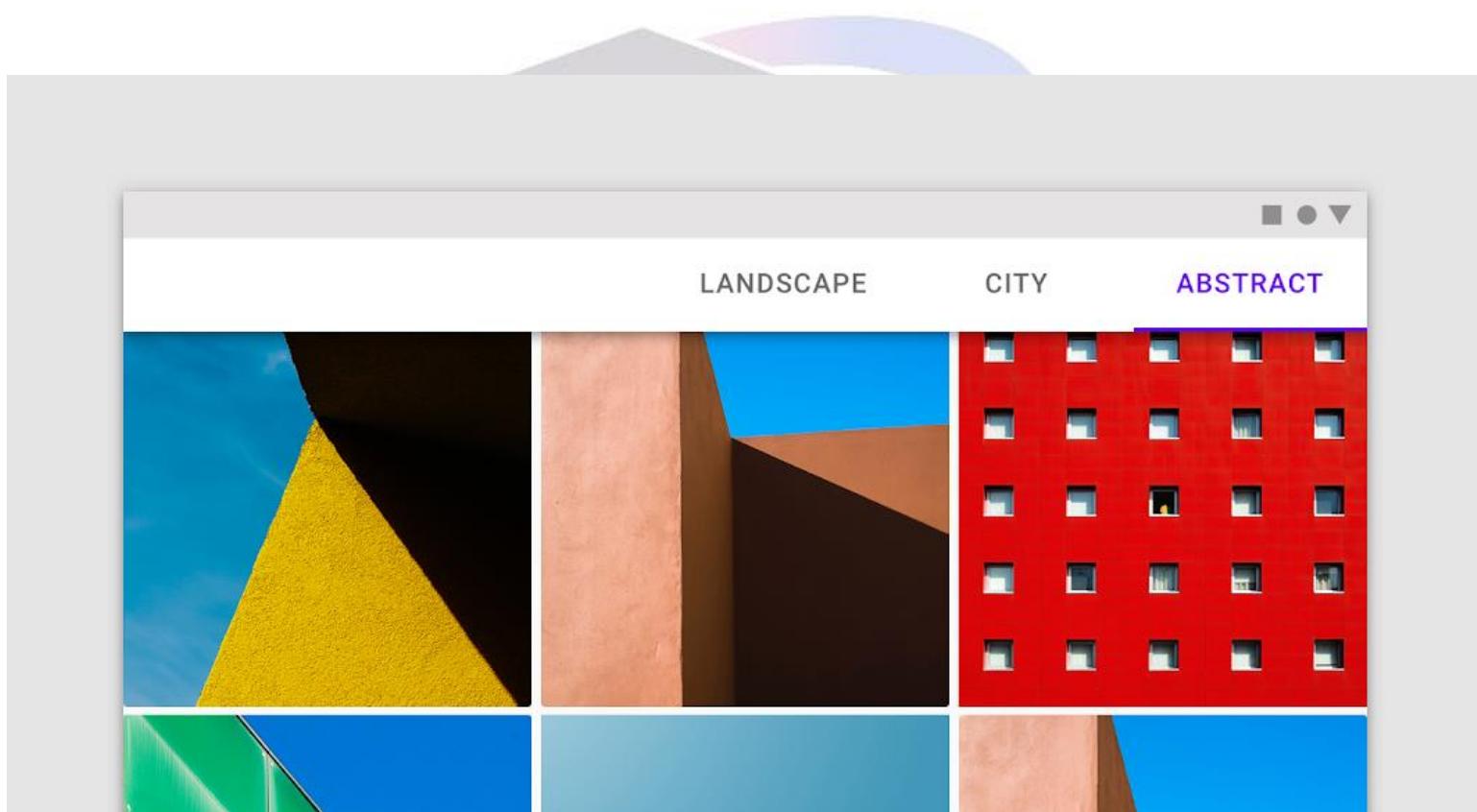
Fixed tabs

Pada tata letak yang lebih lebar, tab mungkin berada di tengah bilah tab



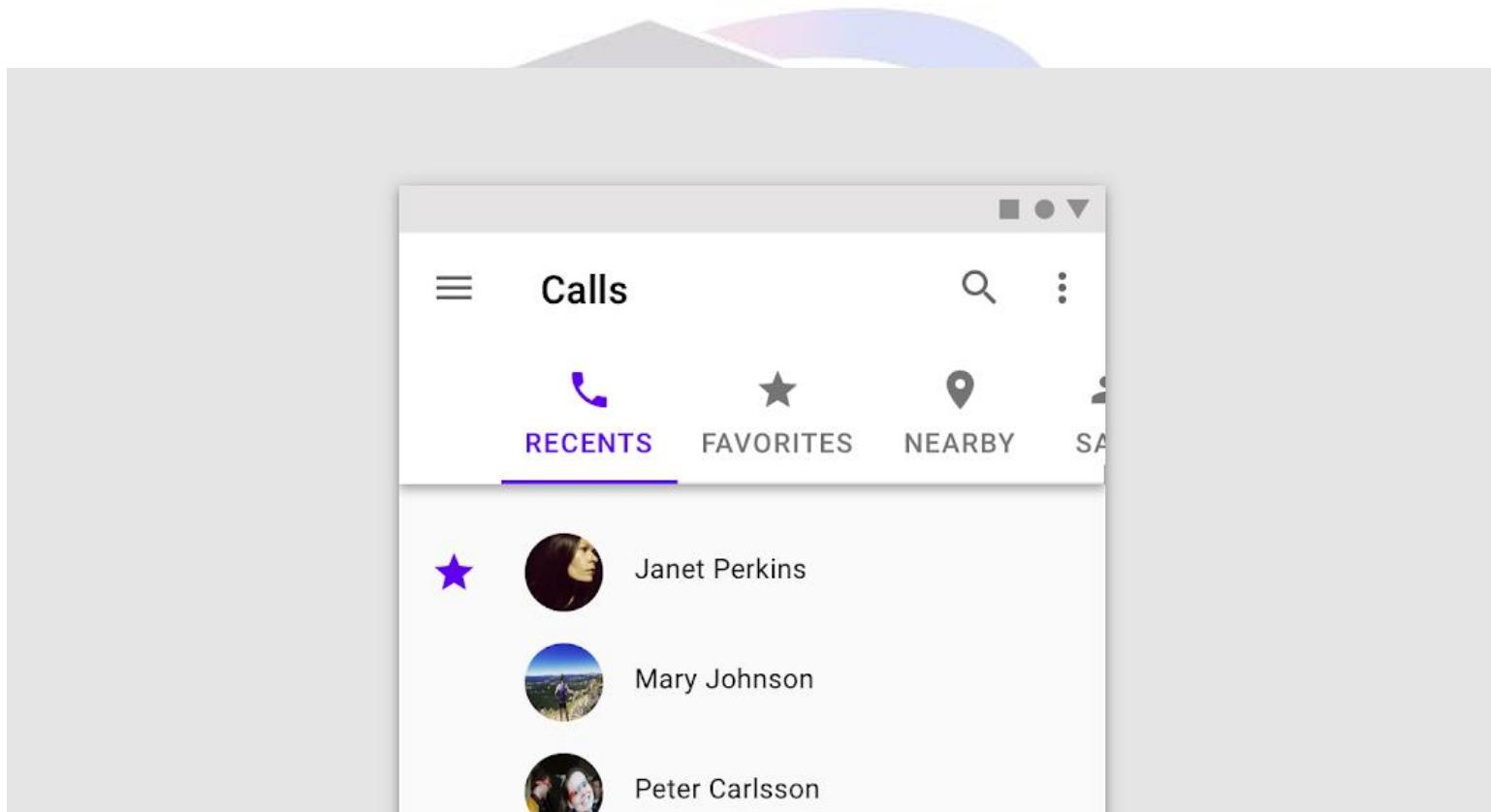
Fixed tabs

Tab tetap dalam cluster dapat disejajarkan ke kiri atau kanan



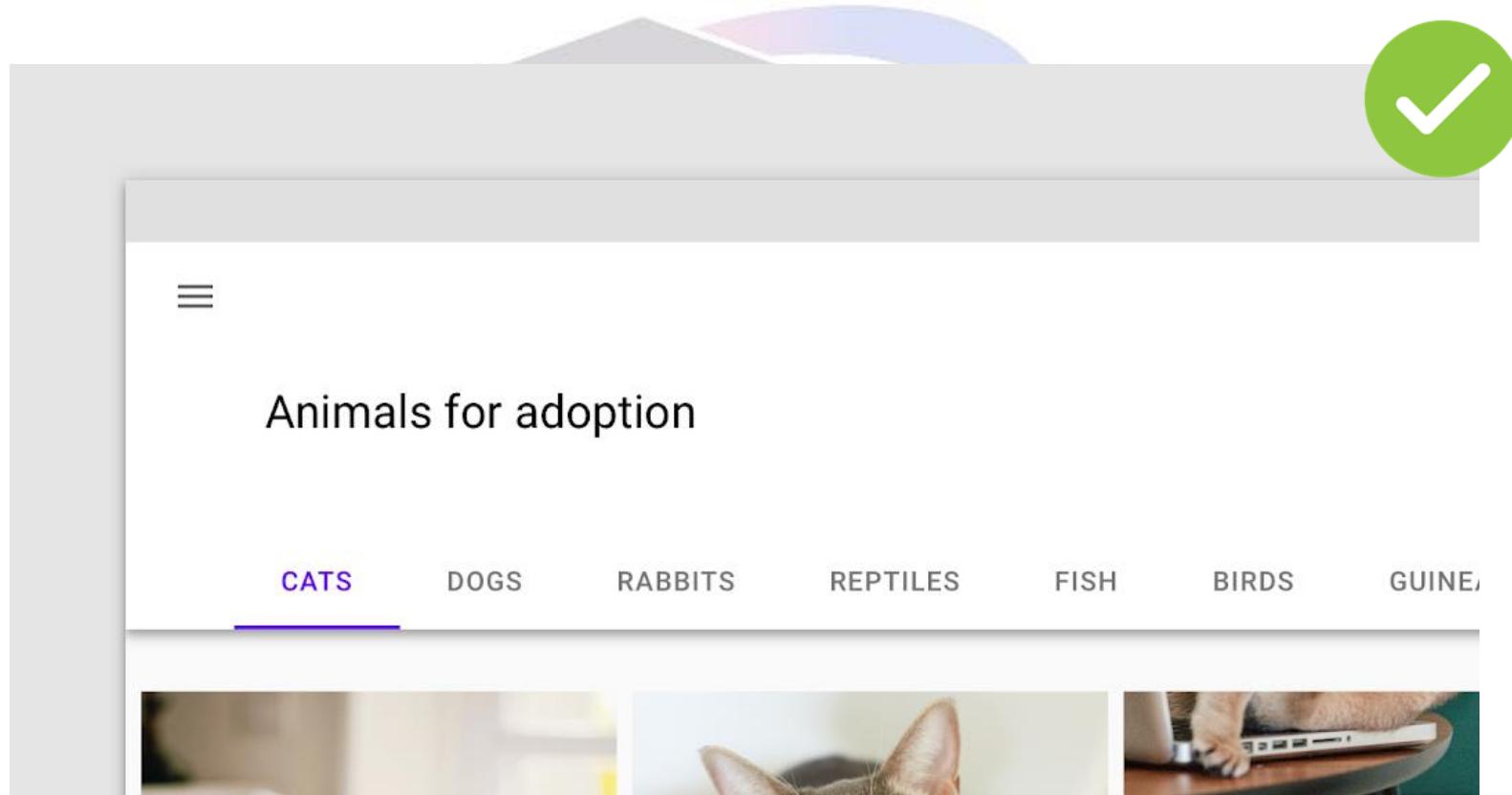
Scrollable tabs

Satu set tab yang dapat digulir



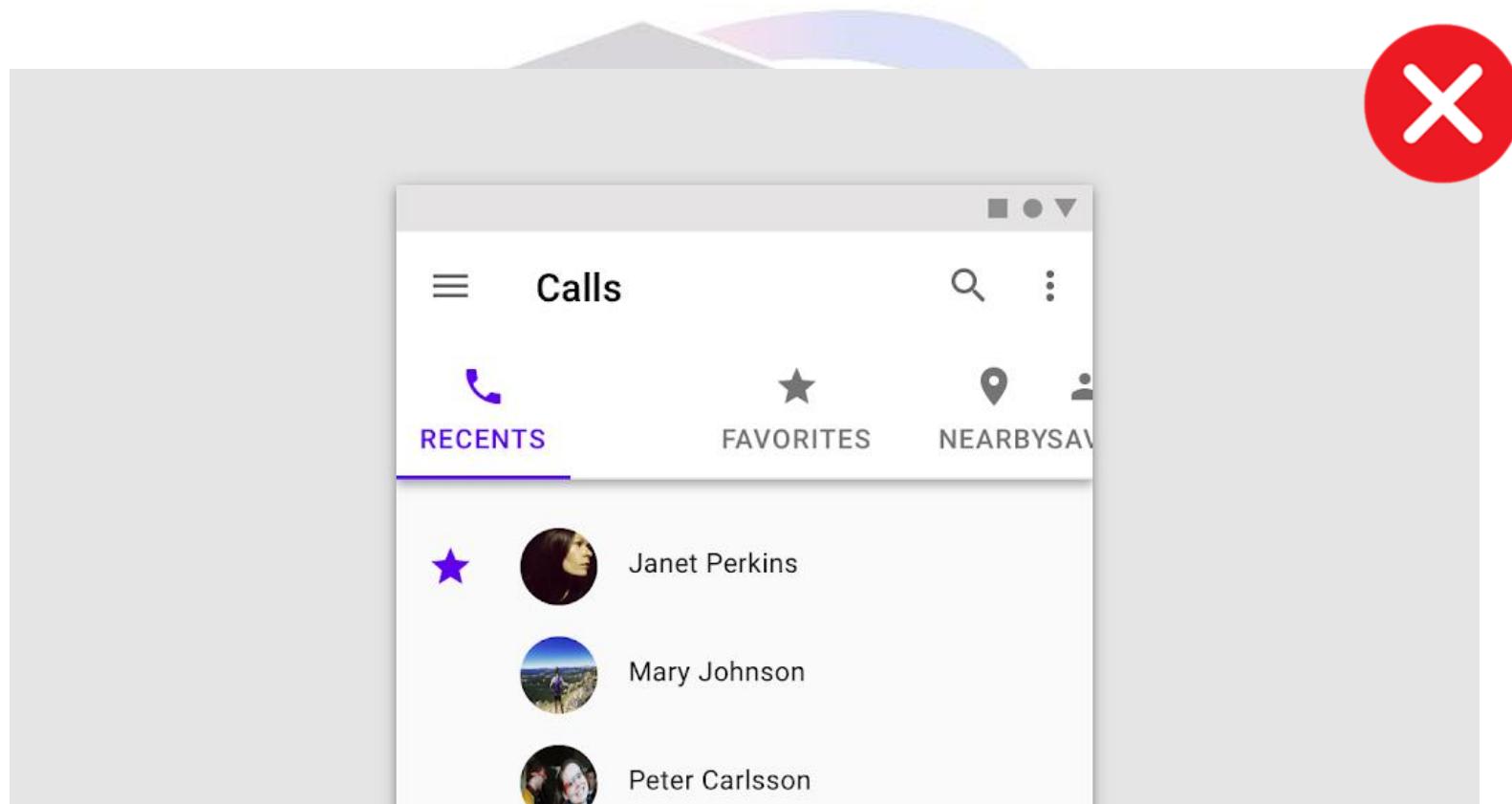
Scrollable tabs

Di seluler dan desktop, imbangi tab pertama di sebelah kiri untuk memberi sinyal bahwa tab dapat discroll



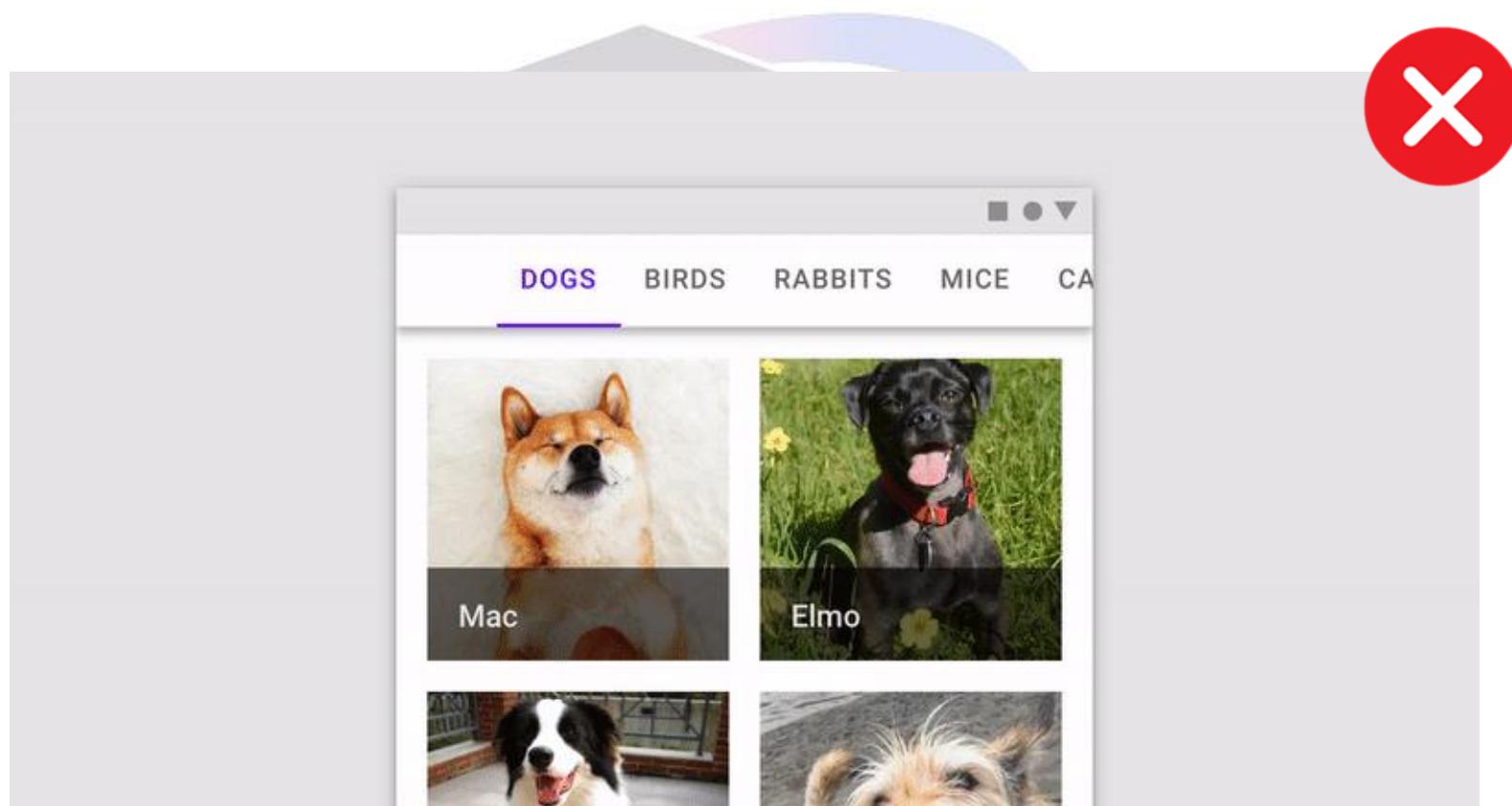
Scrollable tabs

Hindari penggunaan padding yang tidak konsisten pada setiap tab



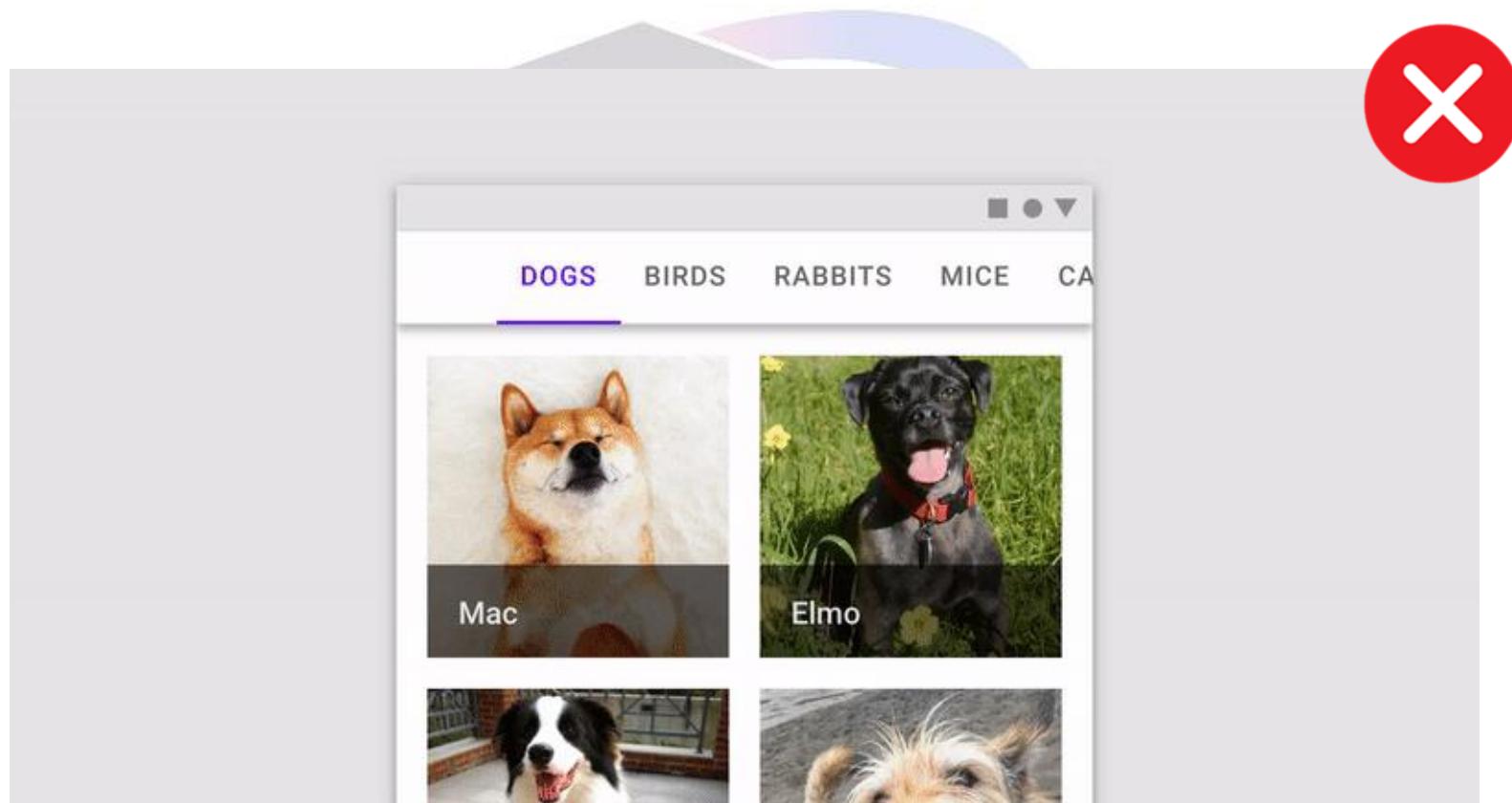
Scrollable tabs

Tab aktif memposisikan diri untuk muncul sepenuhnya di layar



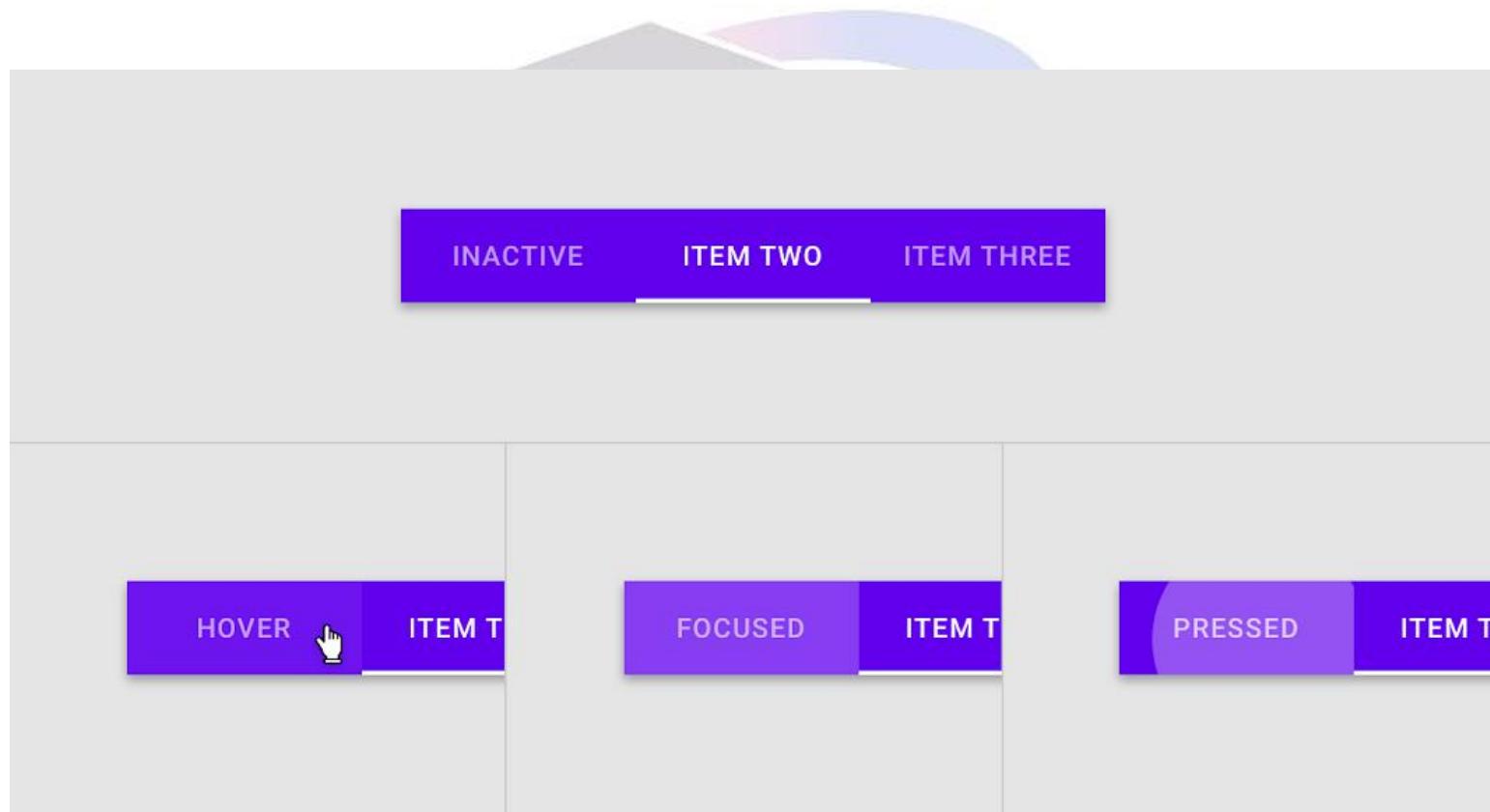
Scrollable tabs

Tab aktif dapat berpindah ke tengah baris saat menjadi aktif



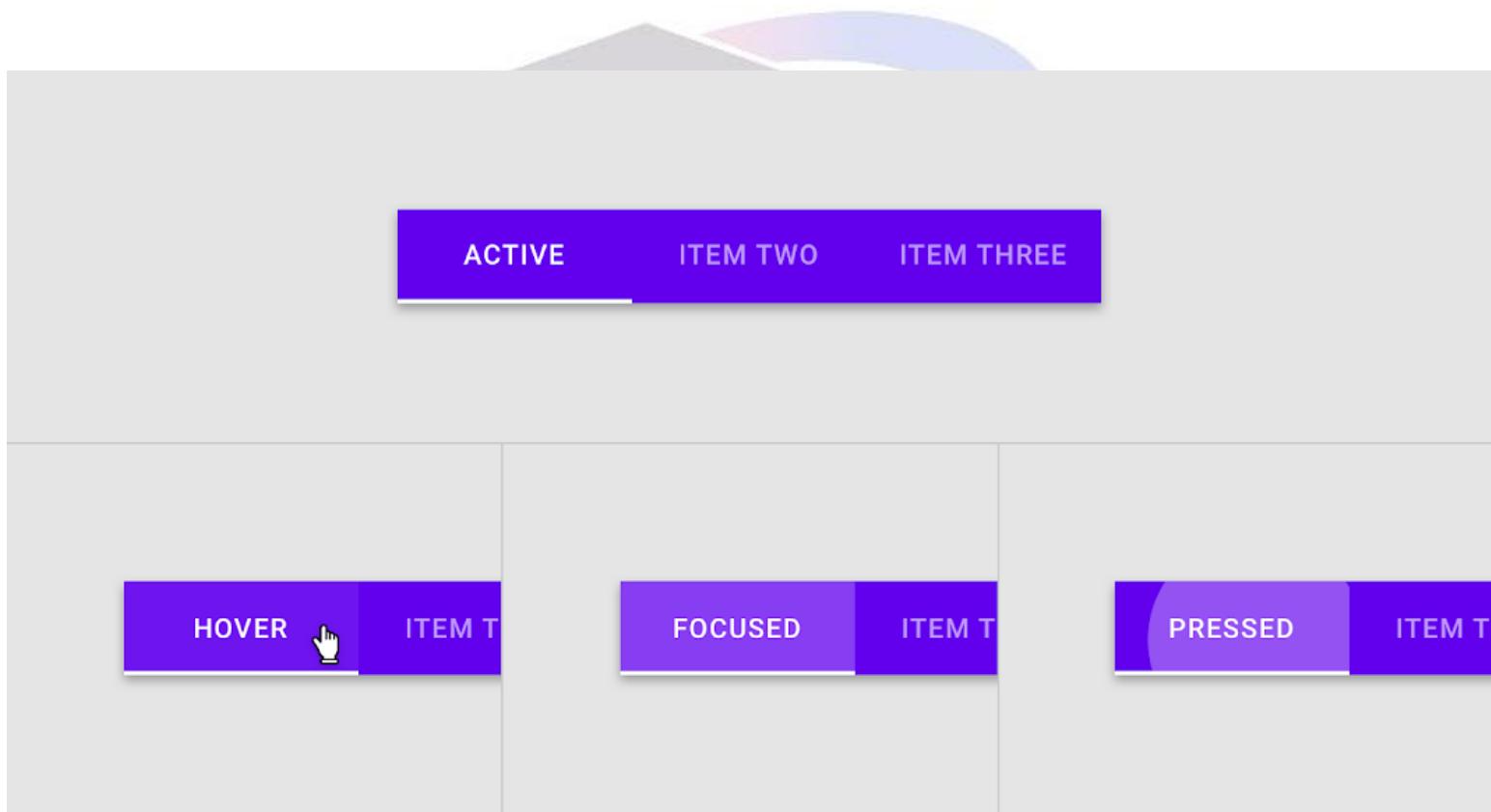
State

Arahkan kursor, fokus, dan status ditekan dari tab yang diaktifkan

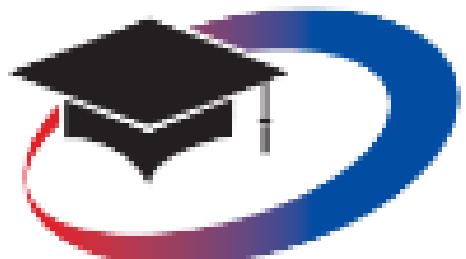


State

Arahkan kursor, fokus, dan status ditekan dari tab aktif



Penerapan di Flutter



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PRODI. TEKNIK INFORMATIKA (S-1)

Fixed tabs

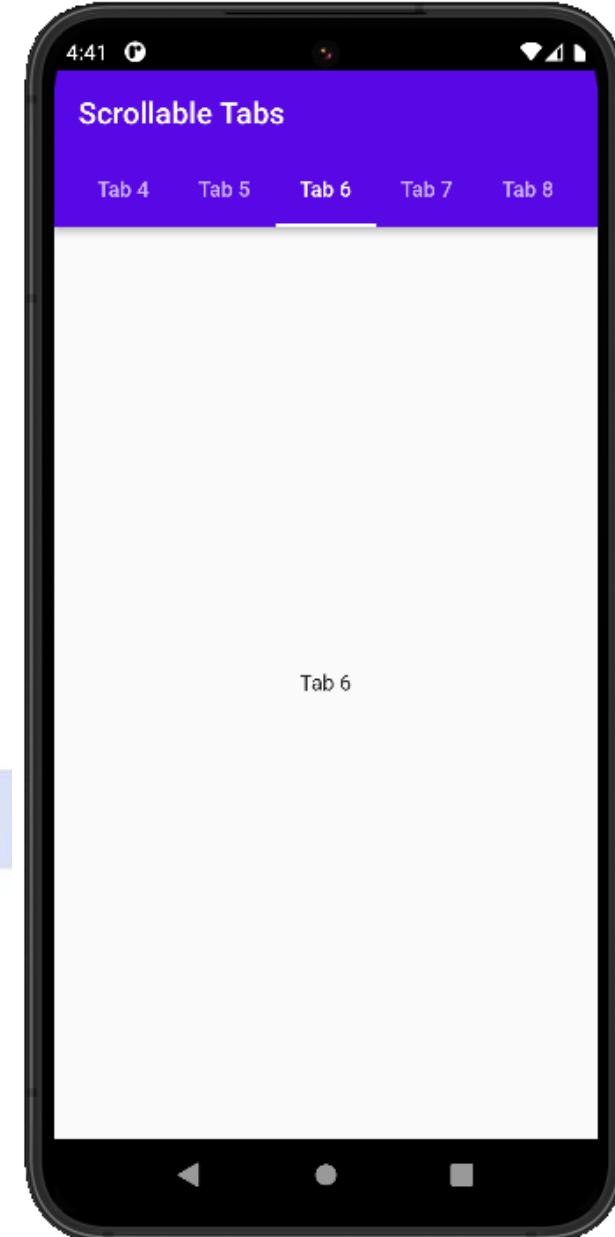
```
final tabs = [
    'Tab 1',
    'Tab 2',
    'Tab 3',
    'Tab 4',
    'Tab 5',
    'Tab 6',
    'Tab 7',
    'Tab 8',
    'Tab 9',
];

return MaterialApp(
    title: 'Flutter Demo',
    home: DefaultTabController(
        length: tabs.length,
        child: Scaffold(
            appBar: AppBar(
                title: Text('Scrollable Tabs'),
                automaticallyImplyLeading: false,
                backgroundColor: Color(0xff5808e5),
                bottom: TabBar(
                    indicatorColor: Colors.white,
                    isScrollable: true,
                    tabs: [
                        for (final tab in tabs) Tab(text: tab),
                    ],
                ),
            ),
            body: TabBarView(
                children: [
                    for (final tab in tabs)
                        Center(
                            child: Text(tab),
                        ),
                ],
            ),
        ),
    ),
);
```

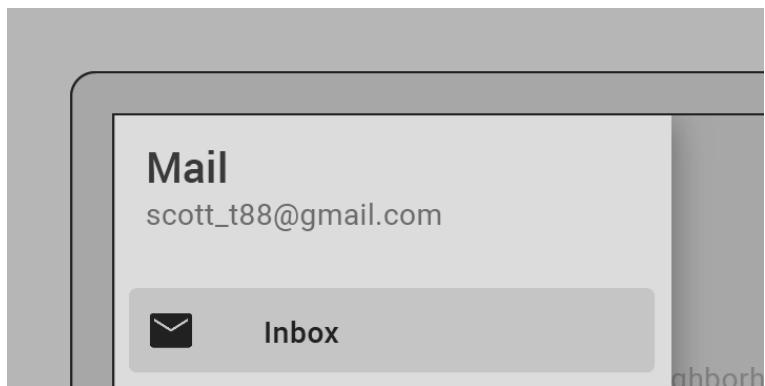


Fixed tabs

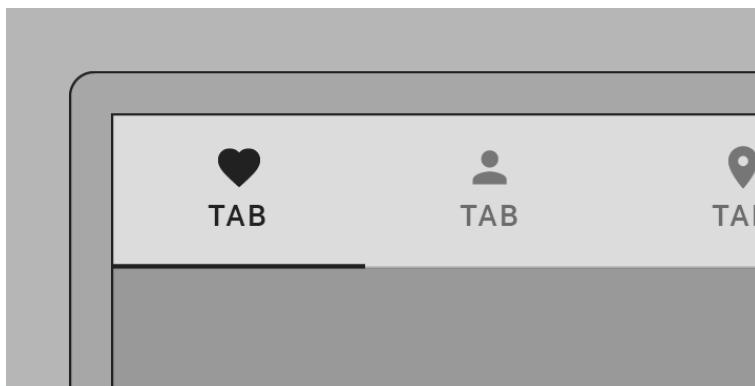
```
MaterialApp(  
    title: 'Flutter Tabs Demo',  
    home: DefaultTabController(  
        length: 3,  
        child: Scaffold(  
            appBar: AppBar(  
                title: Text('Fixed Tabs'),  
                automaticallyImplyLeading: false,  
                backgroundColor: Color(0xff5808e5),  
                bottom: TabBar(  
                    indicatorColor: Colors.white,  
                    tabs: [  
                        Tab(text: 'DOGS', icon: Icon(Icons.favorite)),  
                        Tab(text: 'CATS', icon: Icon(Icons.music_note)),  
                        Tab(text: 'BIRDS', icon: Icon(Icons.search)),  
                    ],  
                ),  
            ),  
            body: TabBarView(  
                children: [  
                    Center(child: Text('DOGS')),  
                    Center(child: Text('CATS')),  
                    Center(child: Text('BIRDS')),  
                ],  
            ),  
        ),  
    ),  
);
```



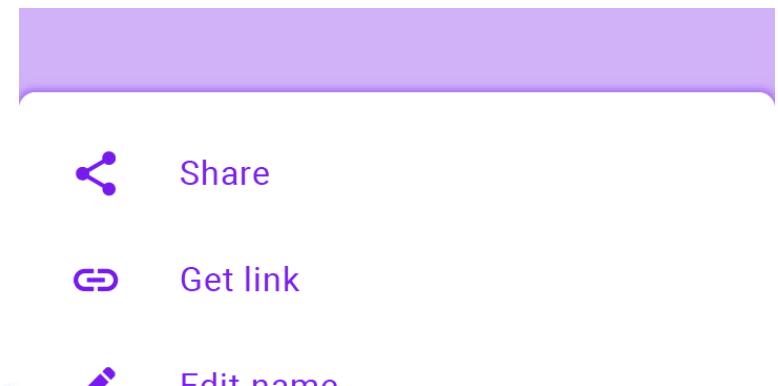
Komponen dalam Mendesain Aplikasi Part. 6



Navigation Drawer



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Tabs Bar



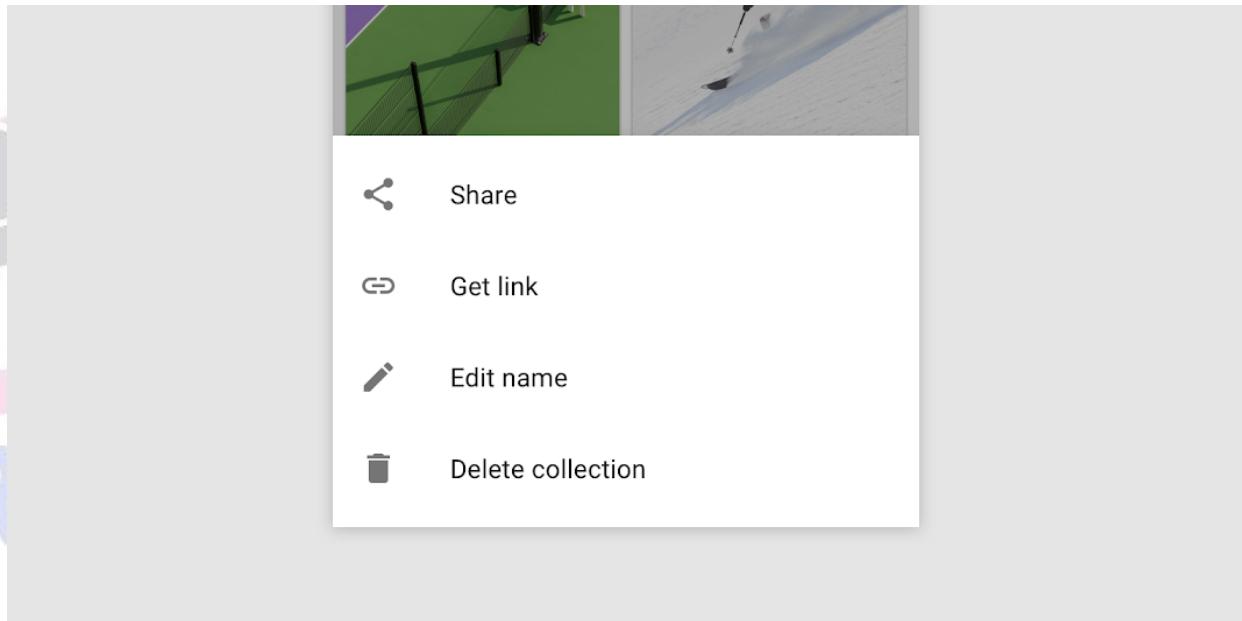
Sheets:Bottom

Buttom Sheets



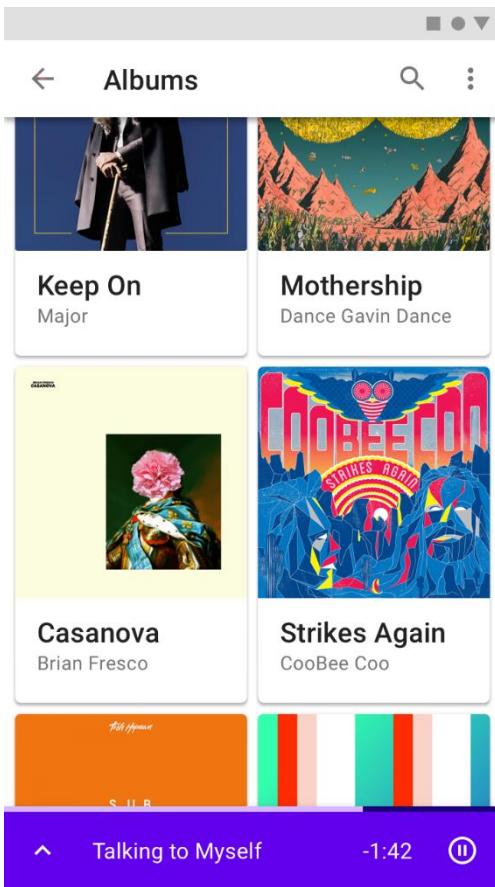
Sheets:button adalah...

- Suatu popup / area yang tampil di bagian bawah dari screen
- Berisi konten tambahan yang berhubungan dengan screen utamanya

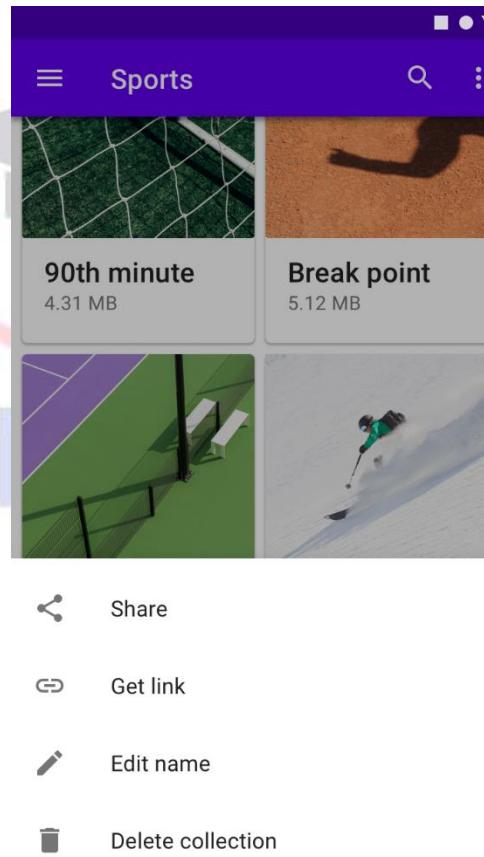


3 Jenis Bottom Sheets

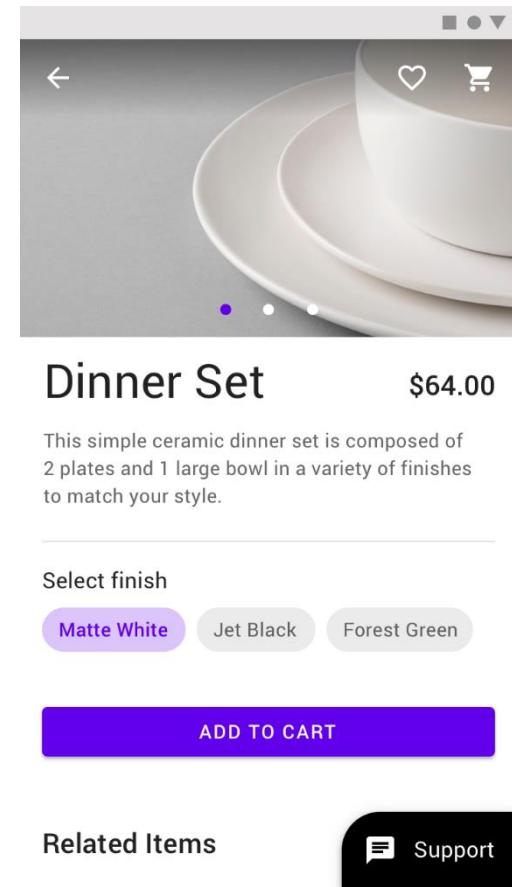
Standard



Modal

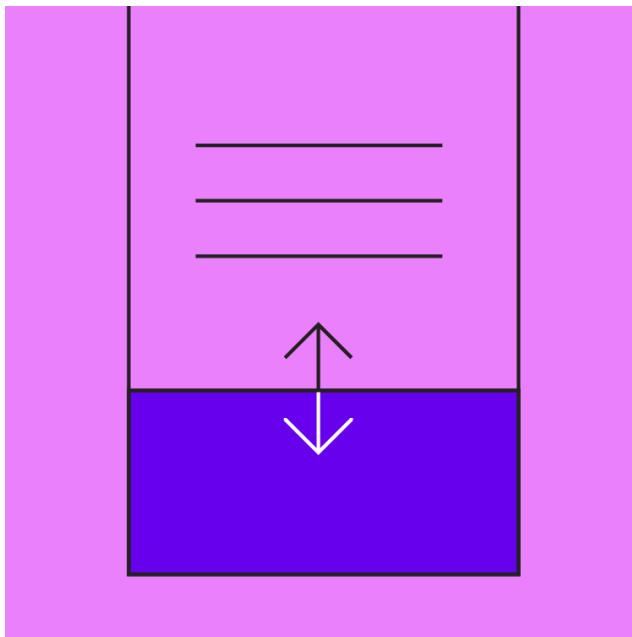


Expanding

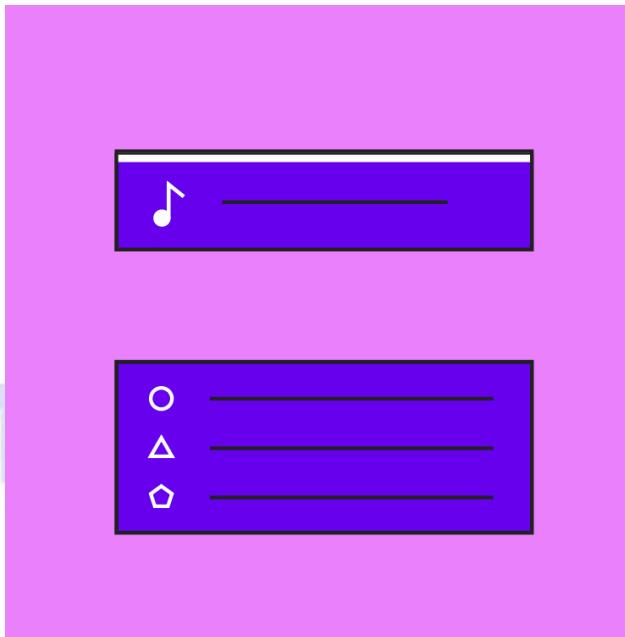


Principle of Bottom Sheets

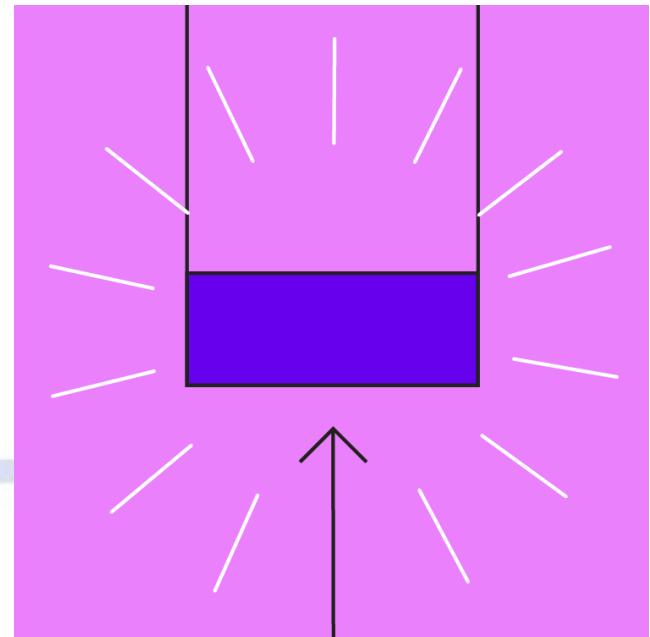
Supporting



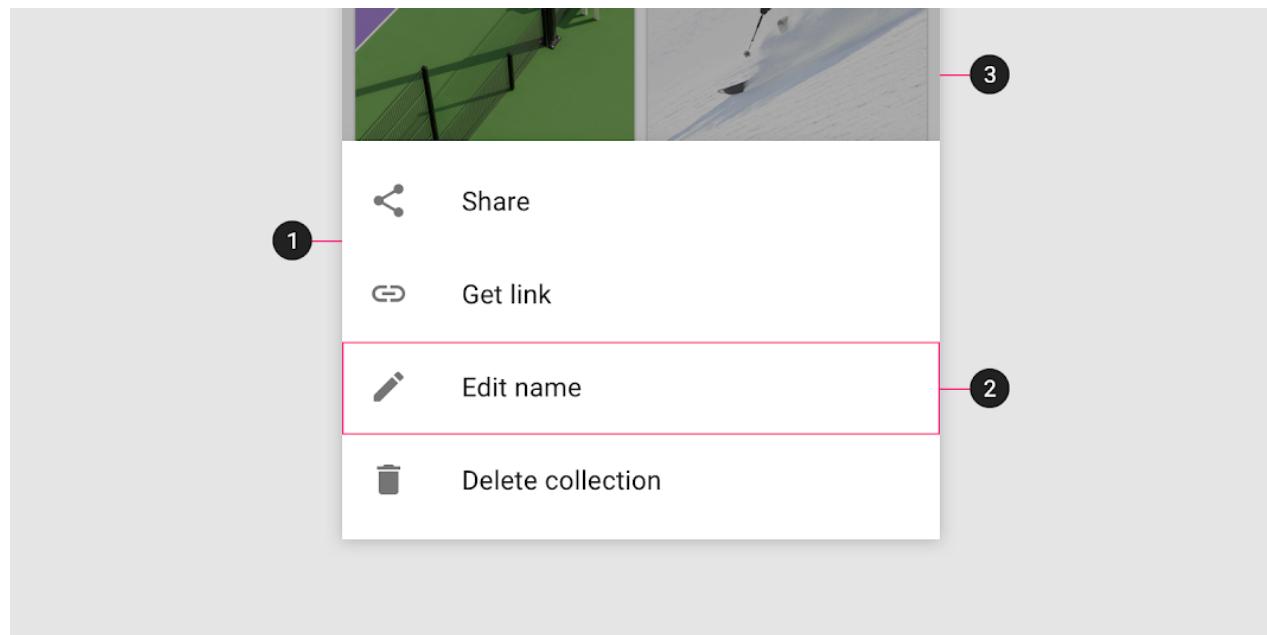
Flexible



Ergonomic

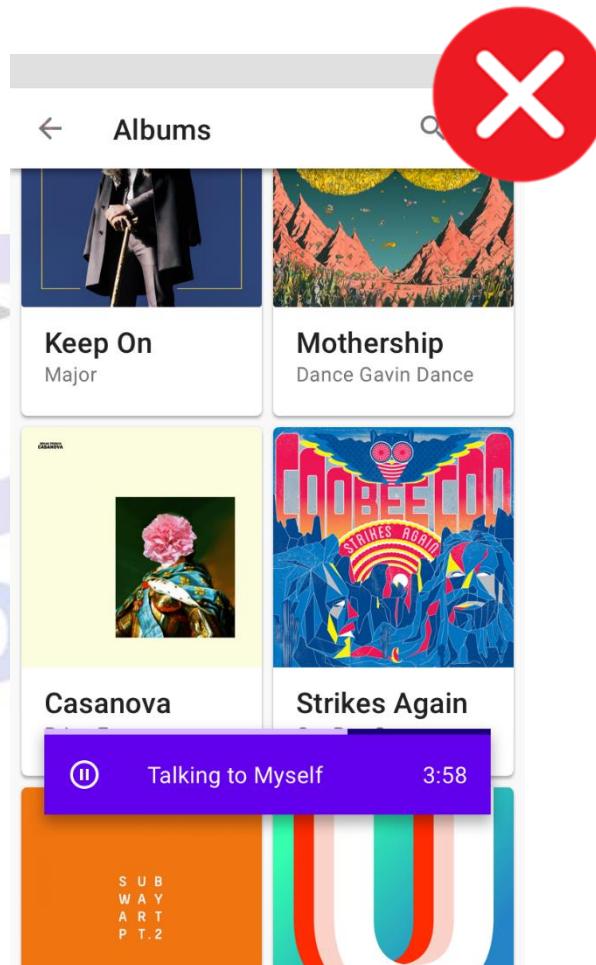
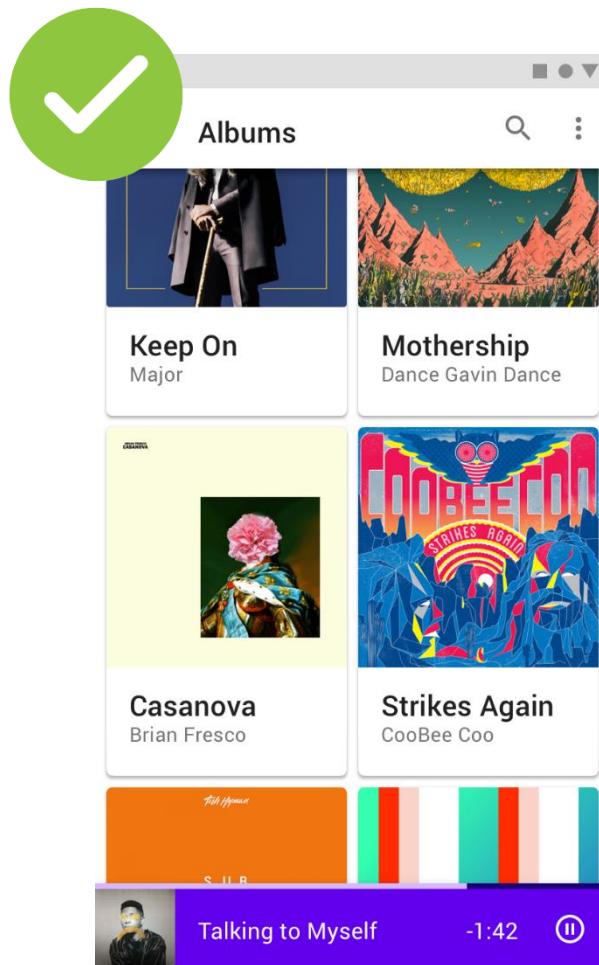


Anatomi

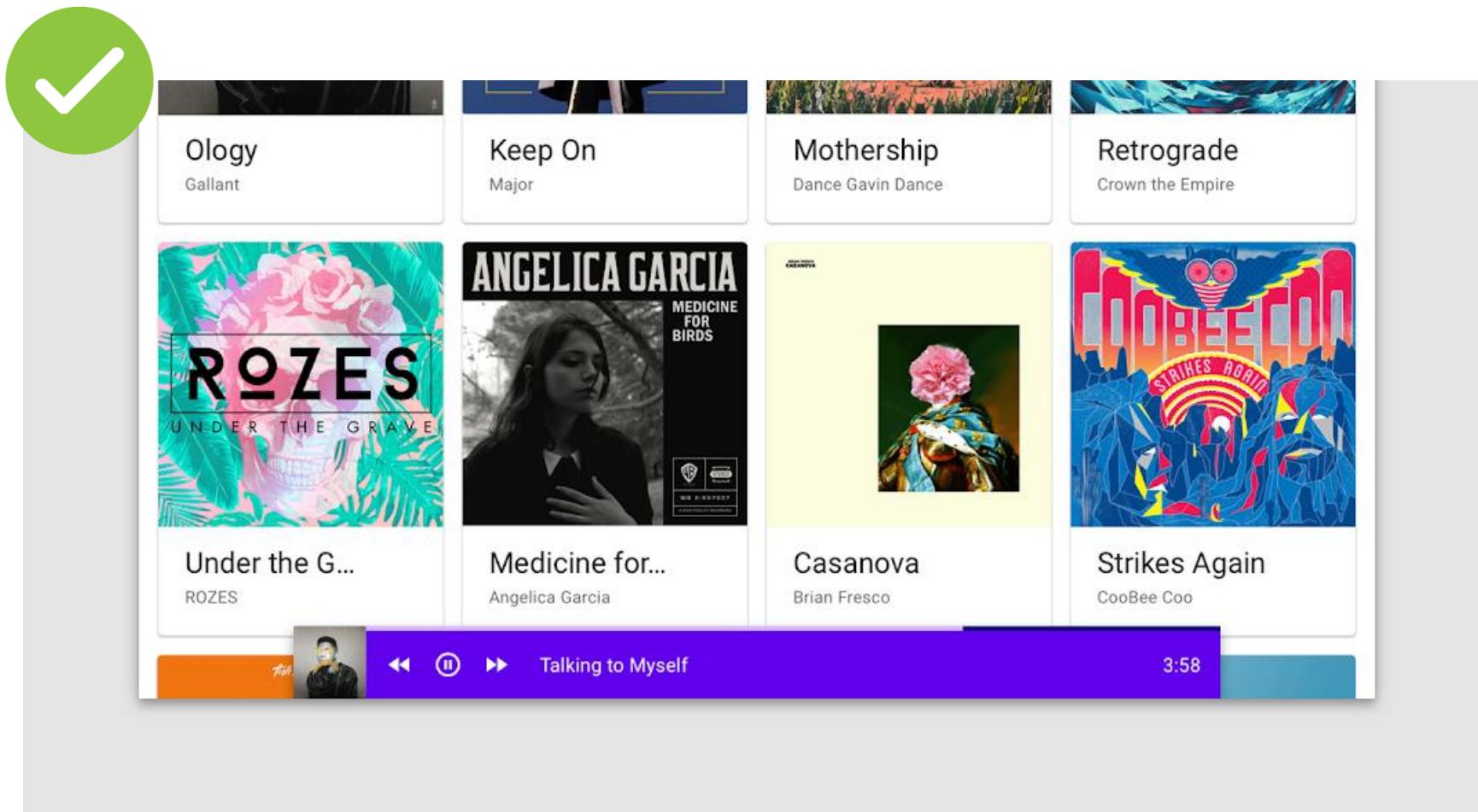


1. Sheet
2. Contents
3. Scrim (Modal only)

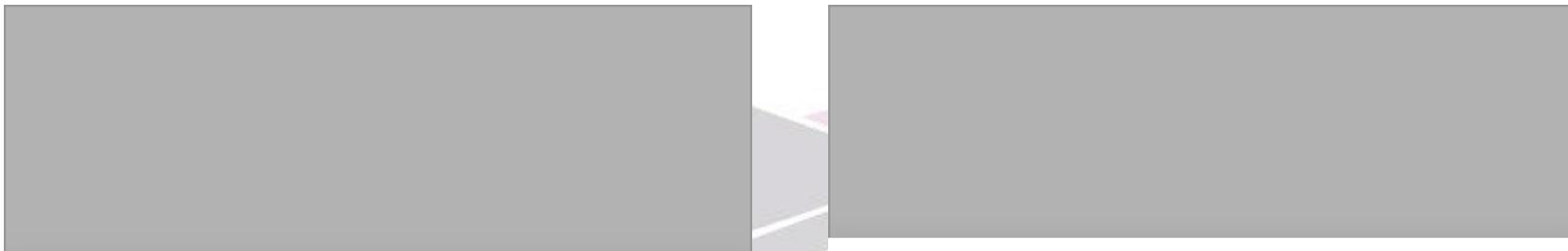
Penempatan Buttom Sheets



Penempatan Bottom Sheets



Konten Button Sheets (Menu of Actions)



Preview

Share

Get link

Make a copy

Open in



Notes



Messenger



Mail



Docs

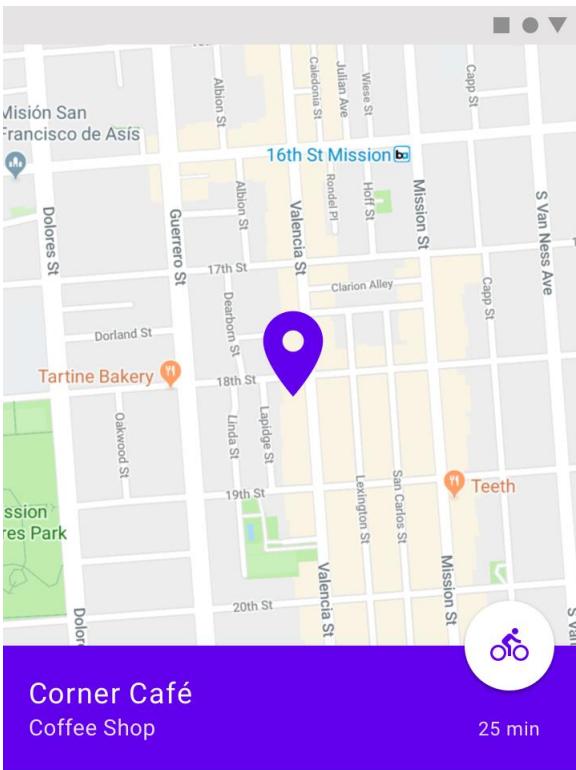


Files

List

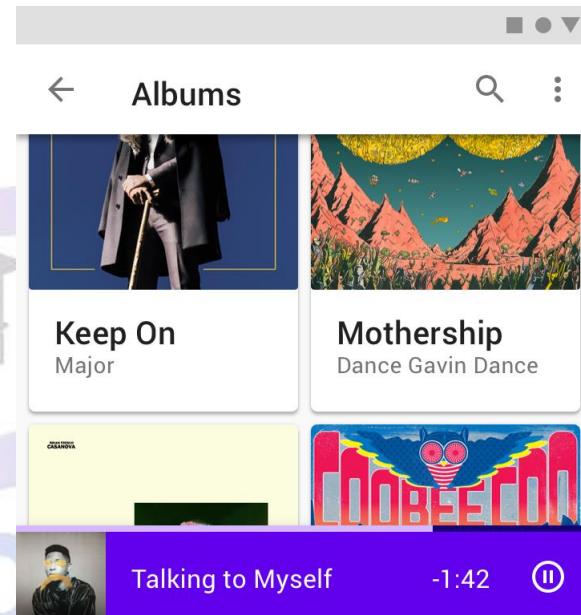
Grid

Konten Button Sheets



3794 Pretty View Lane

Closed Opens 7 AM



- | | | |
|----|-------------------|------|
| 01 | First | 5:05 |
| 02 | Talking to Myself | 3:36 |
| 03 | Shotgun | 3:58 |
| 04 | Bourbon | 3:50 |
| 05 | Bone + Tissue | 3:25 |

Standard Buttom Sheet

Standard Buttom Sheet berdampingan layer utama dan memungkinkan untuk melihat dan berinteraksi secara bersamaan dengan kedua wilayah. Selain itu Buttom Sheet dapat di scroll/digeser



Standard Bottom Sheet

The image displays two examples of standard bottom sheets. On the left is a map-based bottom sheet for a coffee shop. It shows a street view of Valencia Street in San Francisco, with a purple location pin on the map. Below the map, the name "Corner Café" and "Coffee Shop" is displayed, along with a purple button containing a white bicycle icon and the text "25 min". At the bottom of this sheet are three buttons: "CALL" (phone icon), "WEBSITE" (link icon), and "SAVE" (cloud icon). Below these buttons is a separator line, followed by address and status information: "3794 Pretty View Lane" and "Closed Onens 7 AM".

Albums

Album Cover	Album Name	Artist
	Keep On	Major
	Mothership	Dance Gavin Dance
	Casanova	Brian Fresco
	Strikes Again	CooBee Coo

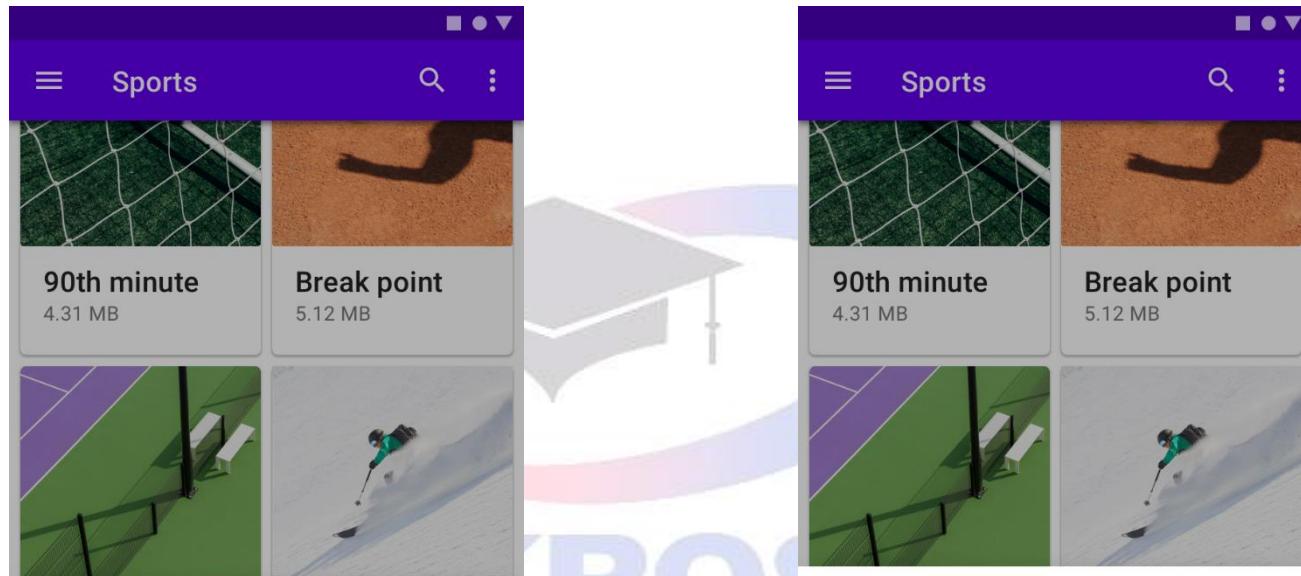
Talking to Myself -1:42

Modal Buttom Sheet

Menampilkan opsi sambil memblokir interaksi dengan screen lainnya.
Hanya tersedia di Platform Mobile

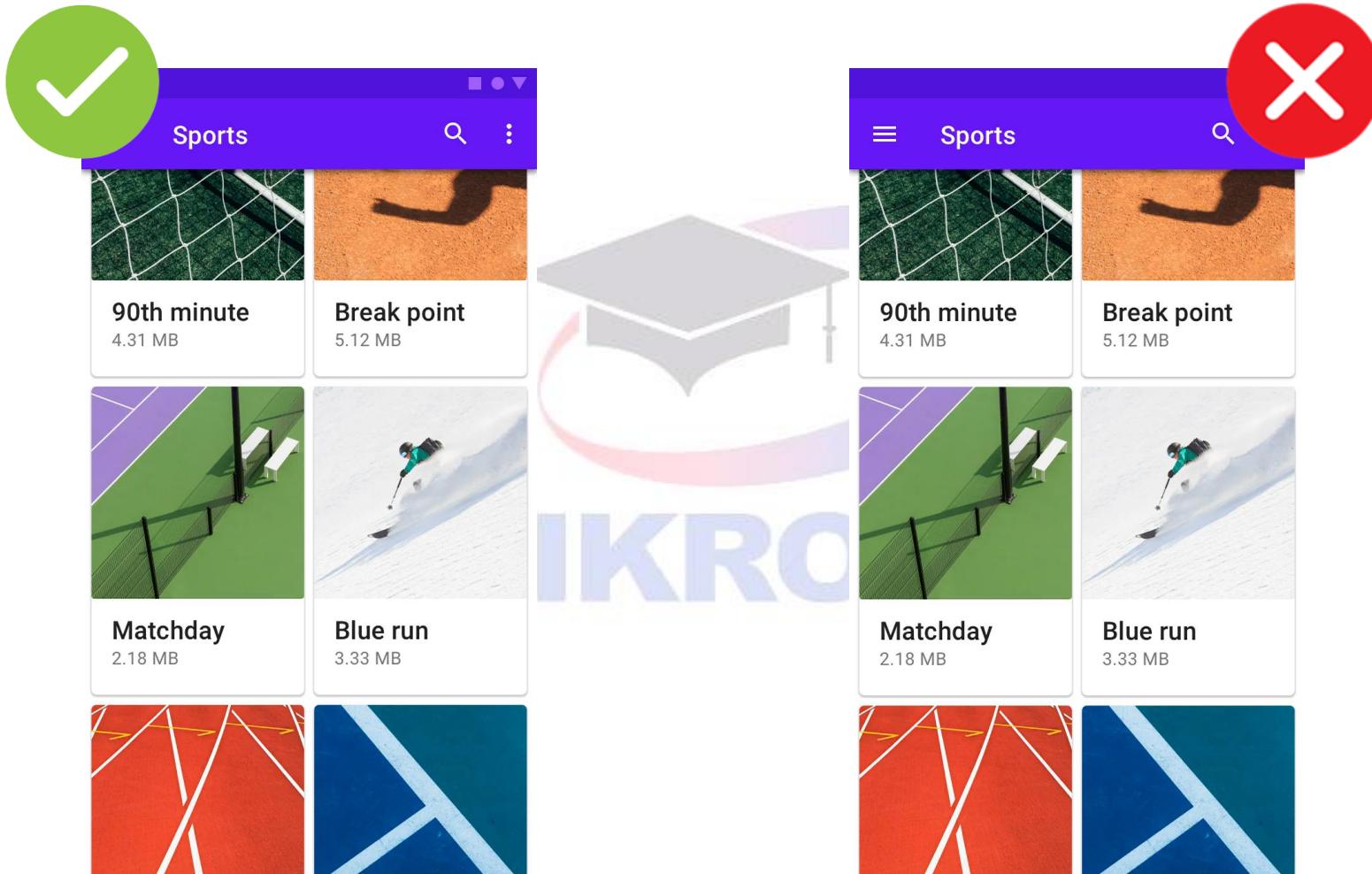


Modal Bottom Sheet

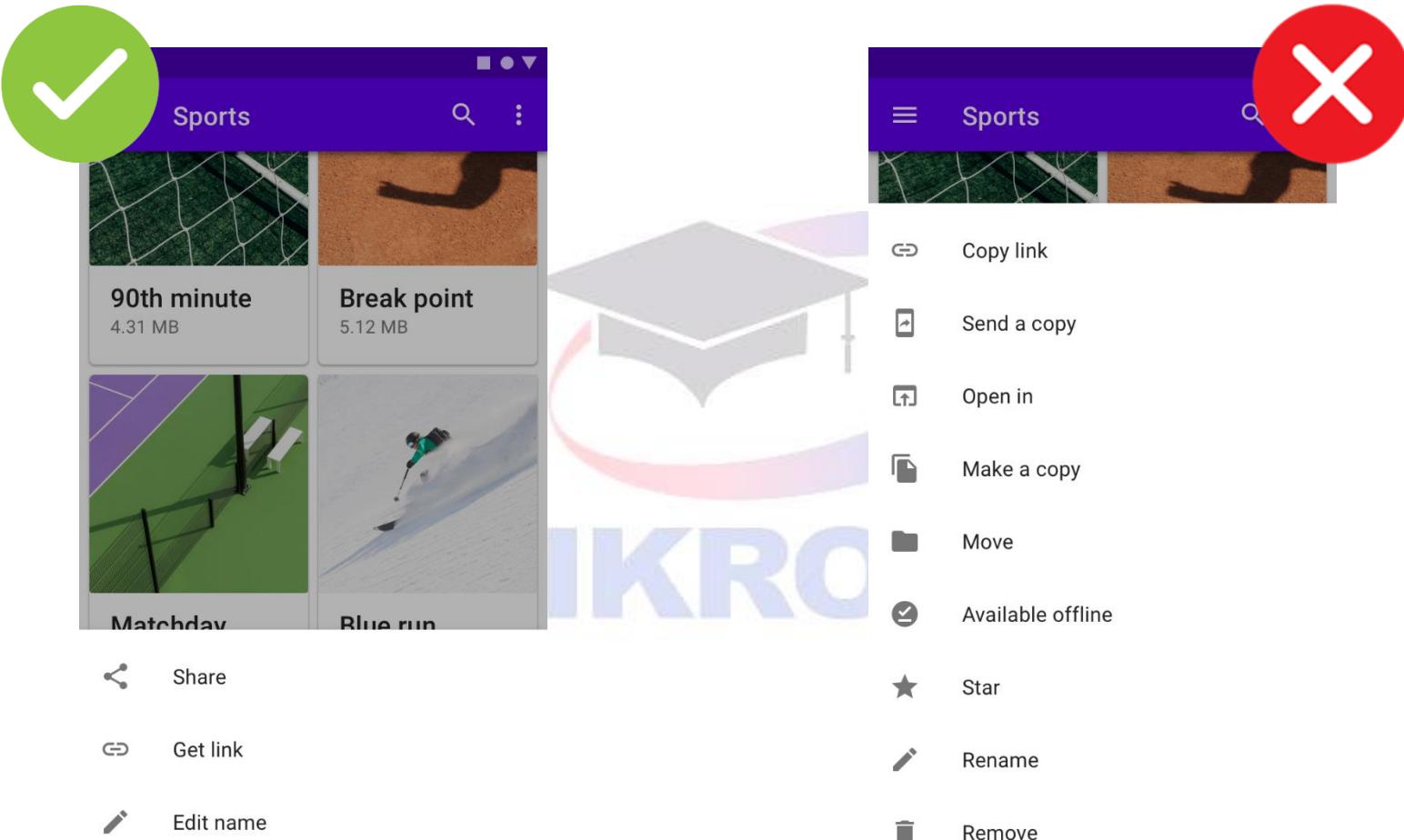


- Open in
- Notes
 - Messenger
 - Mail
- Docs
 - Files

Behavior



Behavior



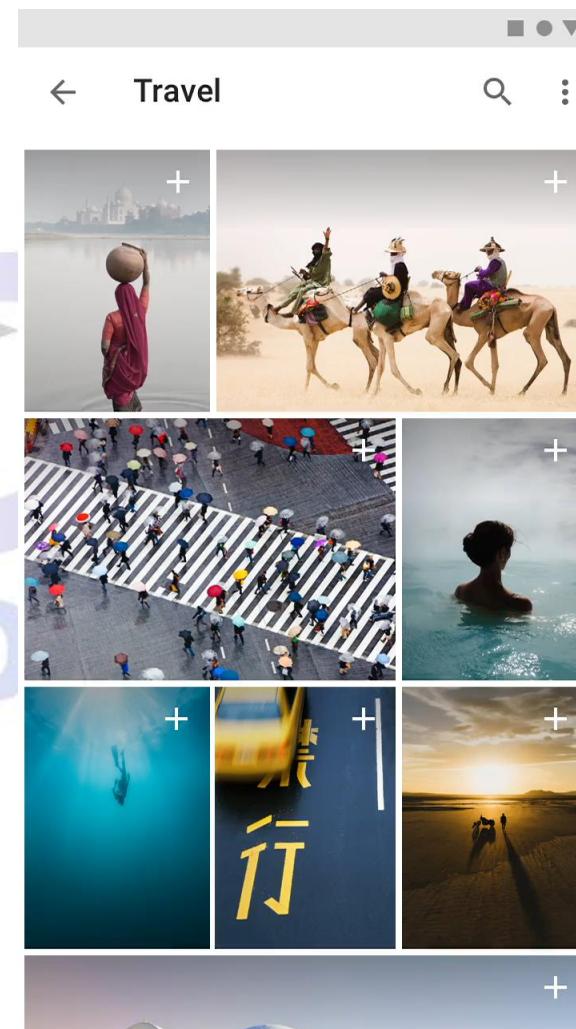
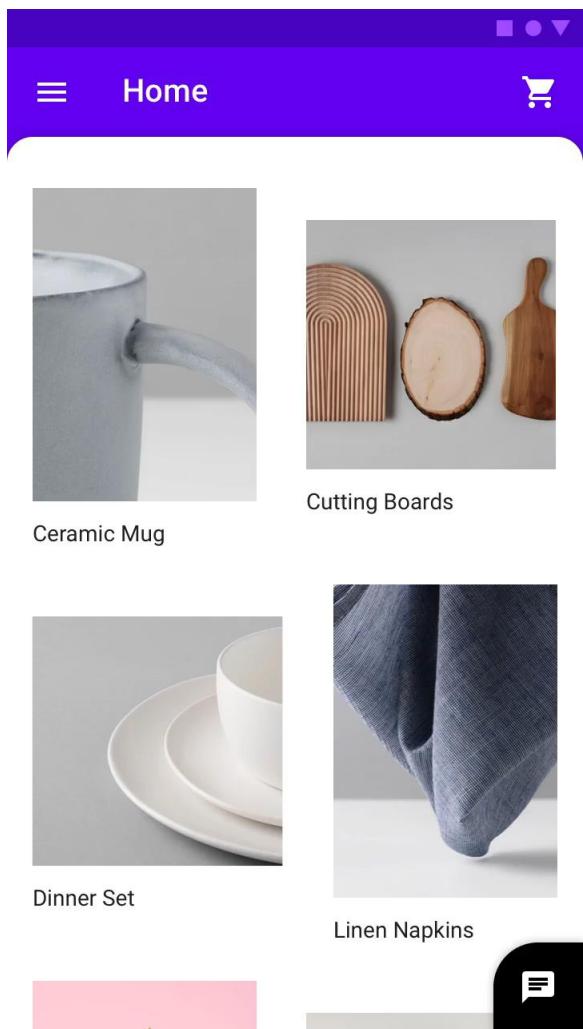
Expanding Buttom Sheet

Suatu Buttom Sheet yang dapat di expand pengguna untuk mengakses fitur atau task.

Biasa dipakai untuk:

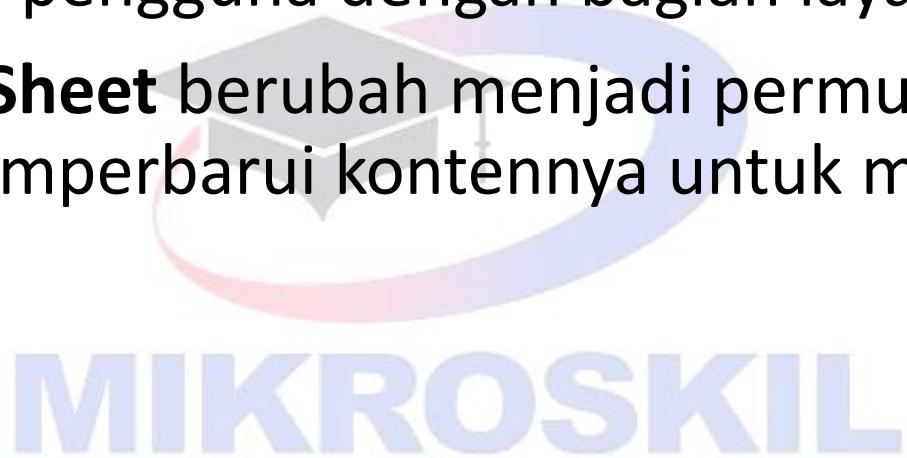
- **Menampilkan fitur lintas screen**, seperti keranjang belanja
- **Mengumpulkan dan bertindak berdasarkan pilihan pengguna dari sekumpulan item**, seperti foto di galeri
- **Tugas pendukung**, seperti chatting dan komentar
- **Navigasi tidak langsung antar item**, seperti video dalam daftar putar

Expanding Bottom Sheet

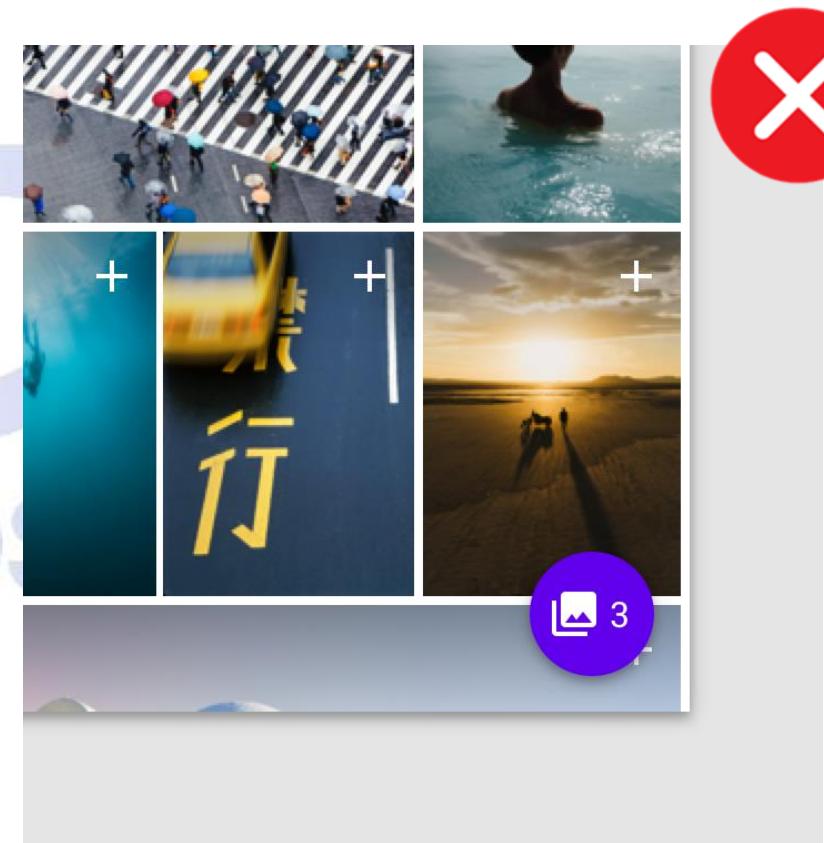
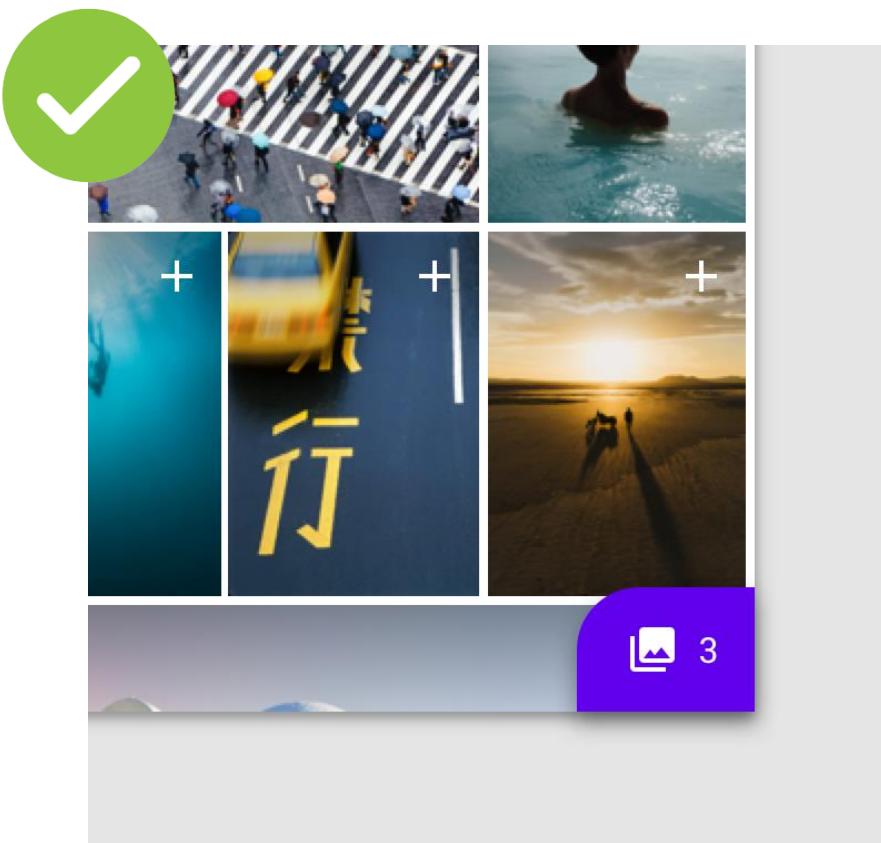


Perbedaan Expanding Buttom Sheet dengan FAB

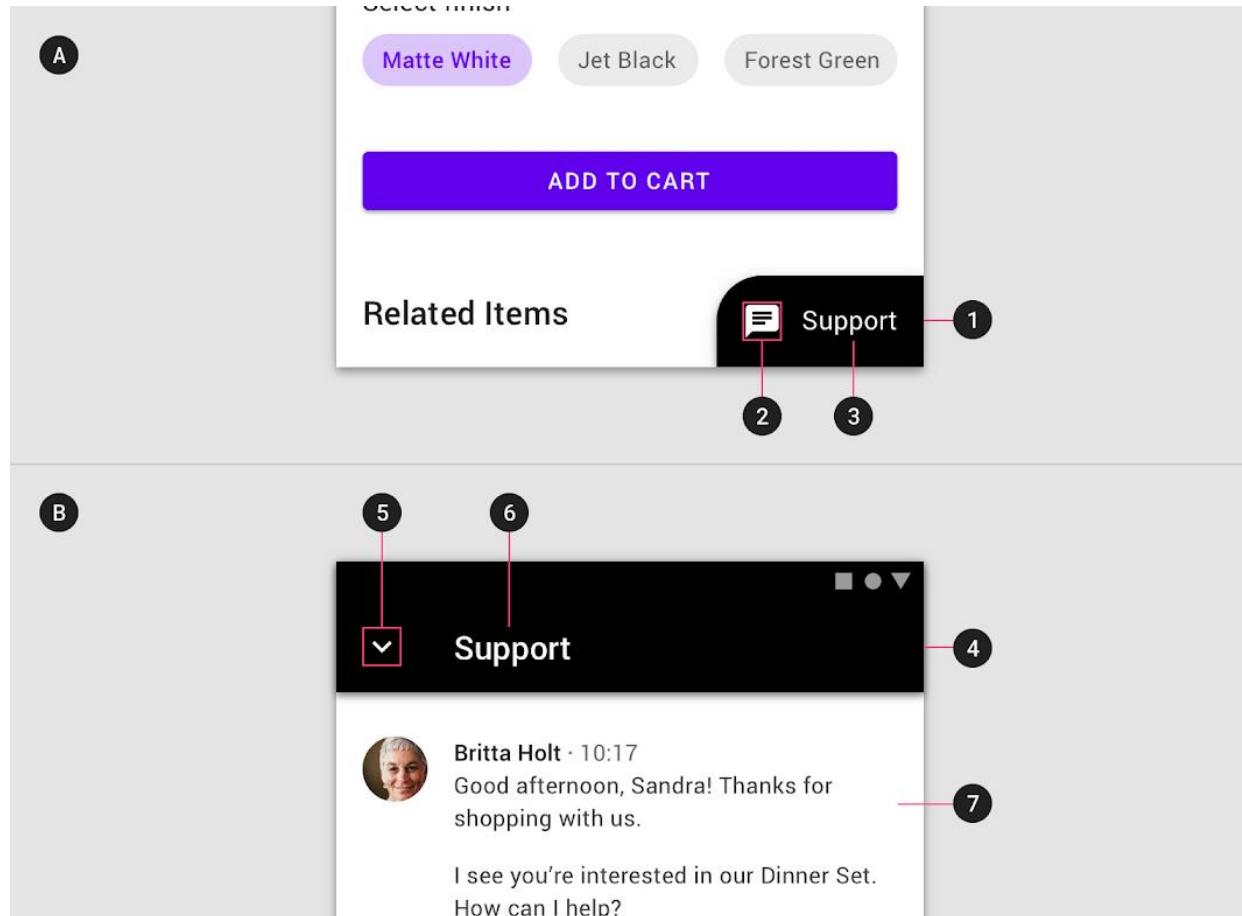
- **Floating Action Button** hanya digunakan untuk tindakan, dan tidak merespons interaksi pengguna dengan bagian layar lainnya.
- **Expanding Buttom Sheet** berubah menjadi permukaan yang lebih besar dan dapat memperbarui kontennya untuk mencerminkan interaksi pengguna.



Expanding Bottom Sheet



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Collapsed state

- 1.Container
- 2.Icon
- 3.Label (Optional)

Expanded state

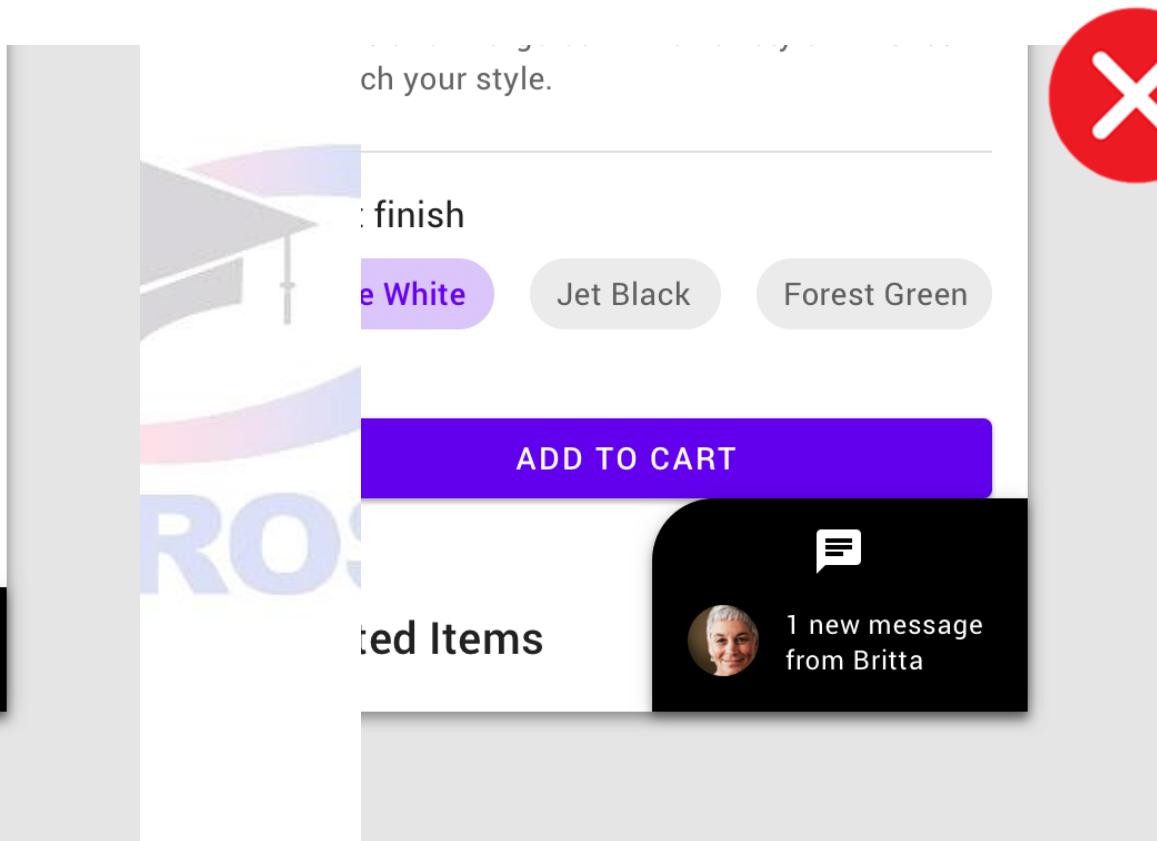
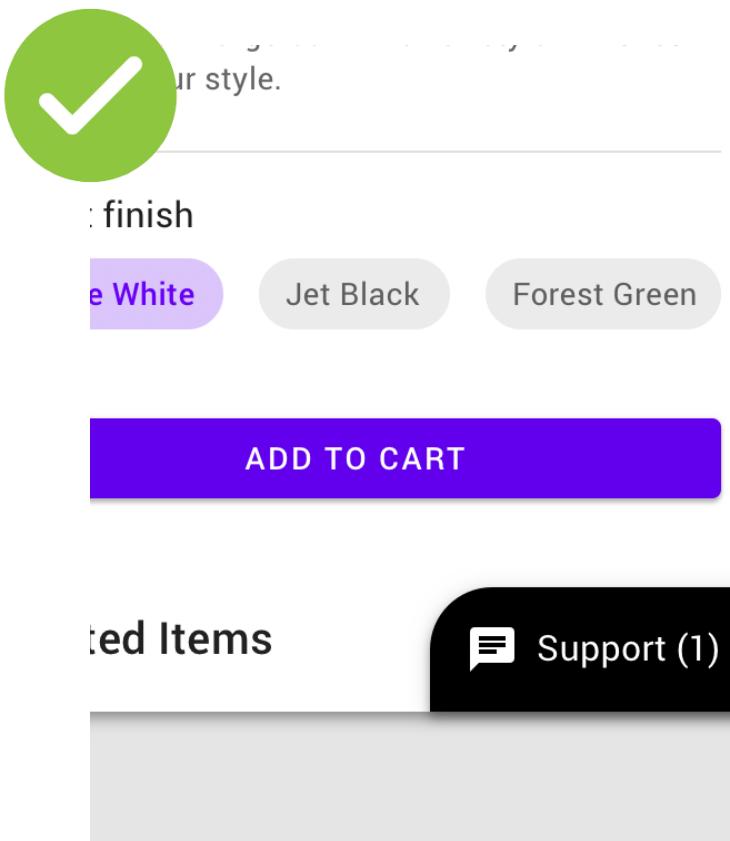
- 4.Header
- 5.Close action
- 6.Label
- 7.Content

Collapsed

Ketika masuk mode Collapsed, expanding button sheet akan menjadi kecil dan informatif.

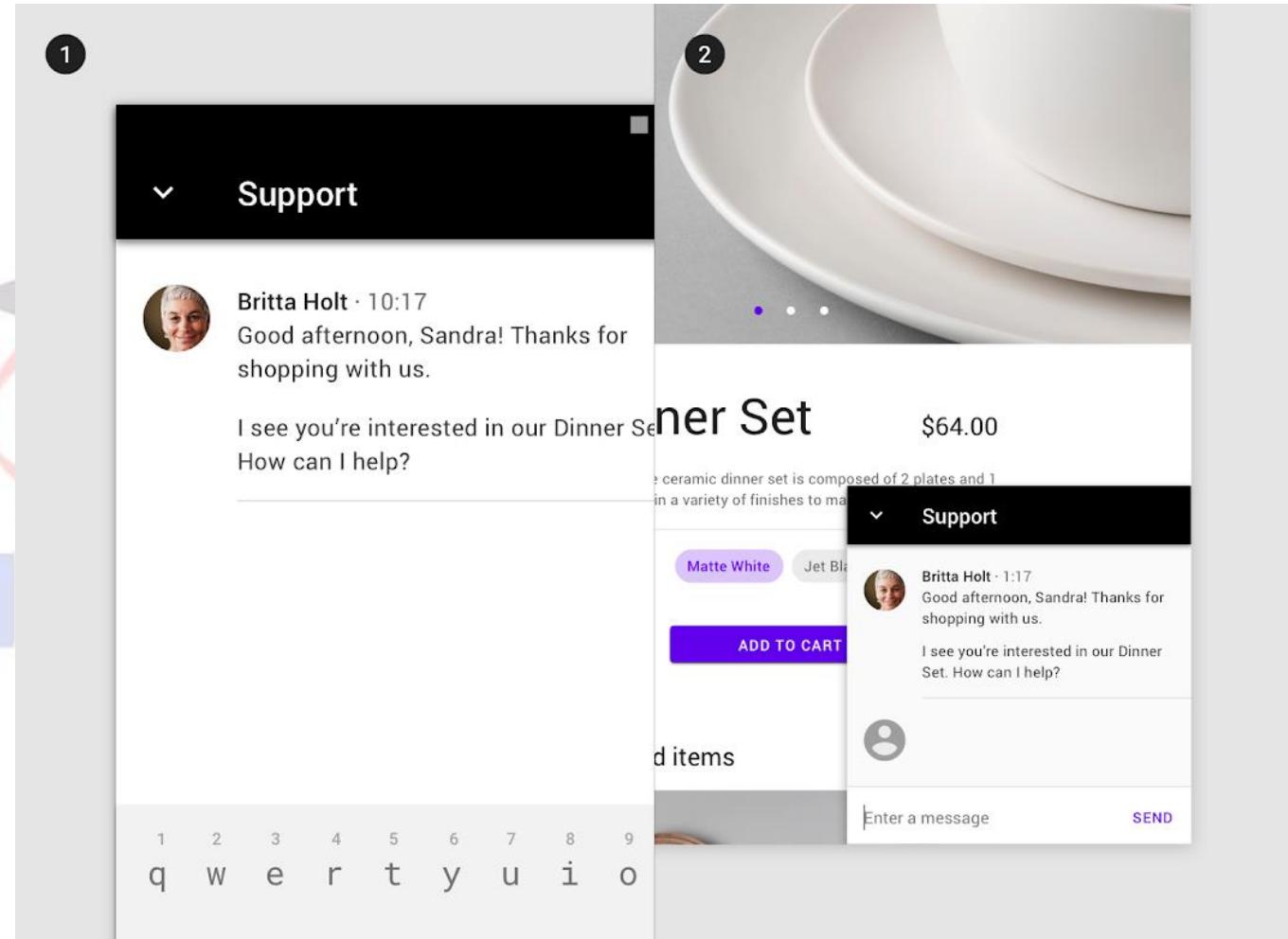
- Buttom sheet dapat menggunakan bentuk dan warna untuk mengekspresikan bahwa interaktif.
- Ikon diperlukan minimal, dan untuk ukuran layar yang lebih besar juga harus menyertakan label teks pendek pada Expanding Buttom.
- Untuk menghindari pemblokiran konten, lebarnya tidak boleh melebihi setengah layar.

Collapsed

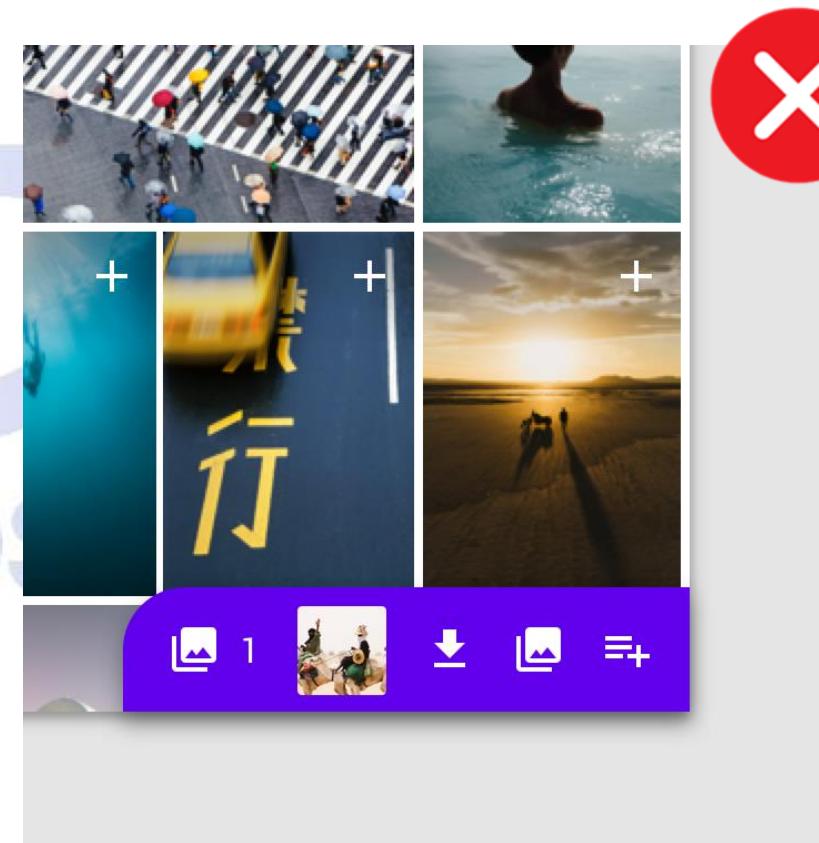
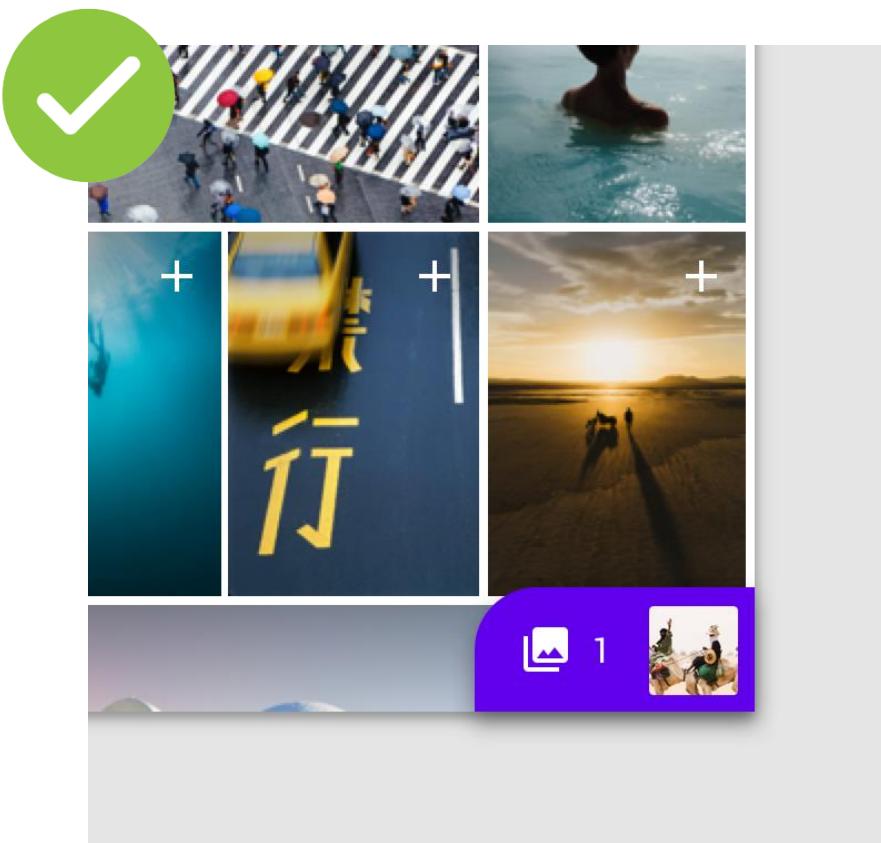


Expanded

Saat diperluas, Bottom Sheet dapat menjadi full screen (1), tetapi bisa lebih kecil di tablet dan desktop berdasarkan kontennya (2).



Controls



Peletakan



Dinner Set \$64.00

This simple ceramic dinner set is composed of 2 plates and 1 large bowl in a variety of finishes to match your style.

Select finish

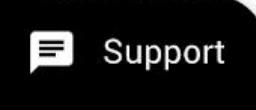
Matte White Jet Black  Support



Dinner Set \$64.00

This simple ceramic dinner set is composed of 2 plates and 1 large bowl in a variety of finishes to match your style.

Select finish

 Support Jet Black Forest Green

Peletakan

Pada Mobile, Bottom Sheet yang melebar memengaruhi komponen rata bawah lainnya. Dan dapat menghalangi fitur penting seperti navigasi bawah, atau membuat kebingungan saat ditempatkan di sebelah FAB.

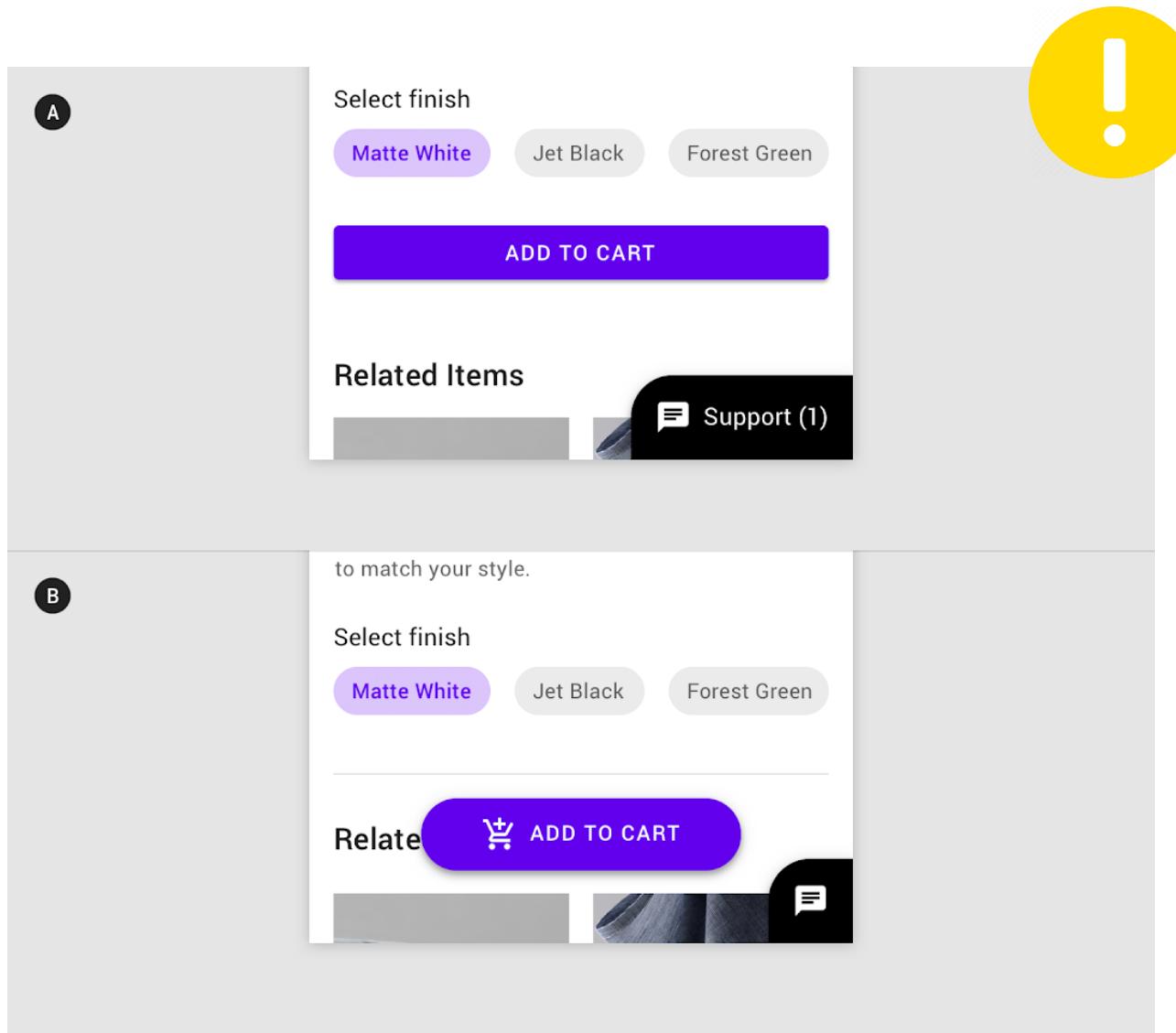


Rekomendasi berikut menyarankan kapan dan bagaimana memasangkan lembaran bawah yang melebar dengan komponen terdekat

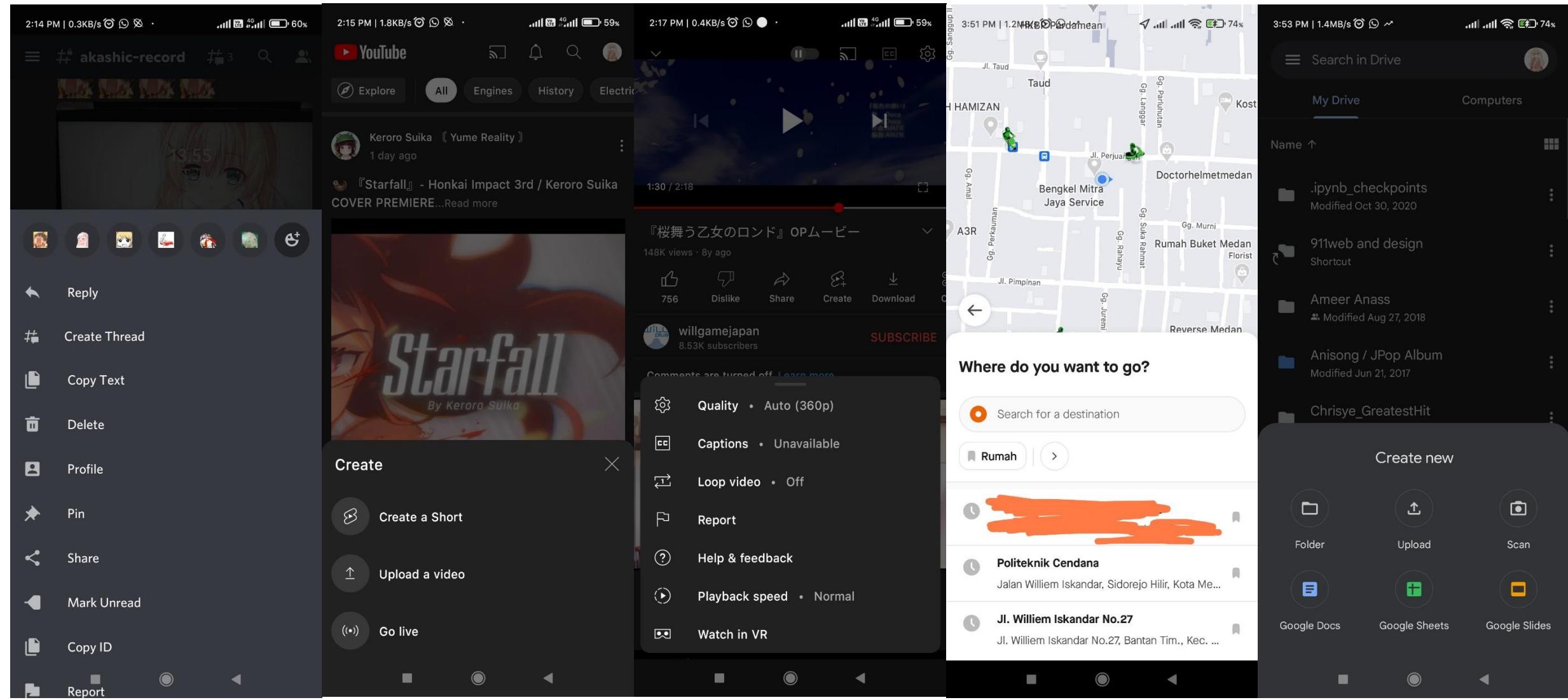
Rekomendasi Peletakan

Komponen	Pasangkan dengan Bottom Sheet?	Rekomendasi
Bottom Navigation	Caution	Tempatkan Bottom Sheet yang Collapsed diatas Bottom Navigation dan hilangkan Bottom Navigaton Ketika masuk mode Expanded
Bottom AppBar	No	Bottom AppBar akan menutupi Bottom Sheet
Floating Action Button (Reguler)	No	Expanded Bottom Sheet memiliki ukuran dan lokasi yang mirip dengan FAB sehingga menimbulkan kebingungan pengguna
Floating Action Button (Extended)	Caution	Expanded Bottom Sheet bisa digunakan jika FAB Extended berada di tengah sehingga tidak menimpah Collapsed Sheet
On-screen Keyboard	Yes	Ketika Keyboard muncul, ia akan menimpah Bottom Sheet. Saat Sheet di Collapse, ia tidak akan menempel ke keyboard.
Snackbar	Yes	Untuk menghindari saling timpah, letakkan snackbar diatas Collapsed Sheet.

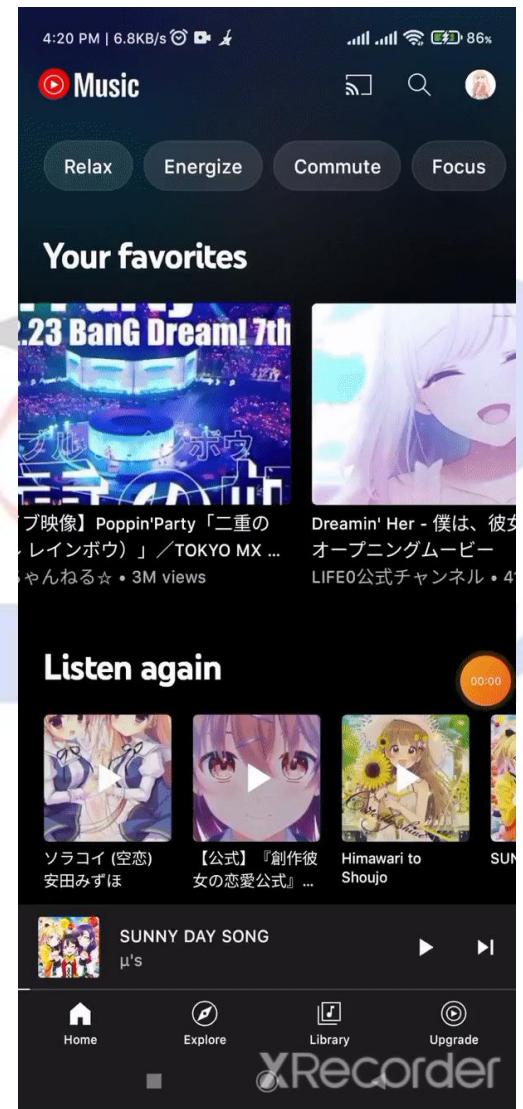
Peletakan



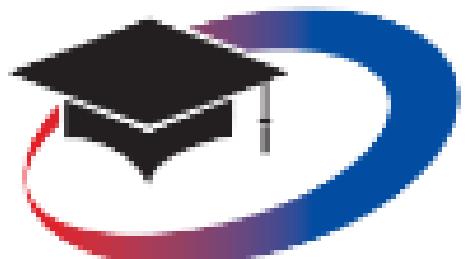
Contoh Implementasi Bottom Sheet



Contoh Implementasi Bottom Sheet



Penerapan di Flutter

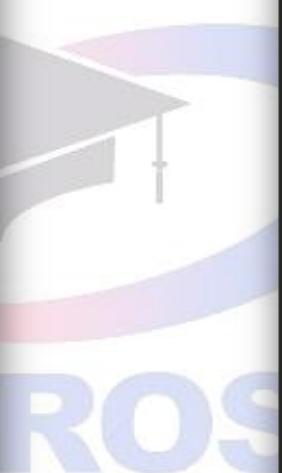


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Implementasi di Flutter

```
● ● ●  
class _MyHomePageState extends State<MyHomePage> {  
    bool _show = false;  
    @override  
    Widget build(BuildContext context) {  
        return Scaffold(  
            appBar: AppBar(  
                title: Text("Flutter Bottom Sheet"),  
            ),  
            body: Center(  
                child: Column(  
                    mainAxisAlignment: MainAxisAlignment.center,  
                    children: [  
                        ElevatedButton(  
                            onPressed: () {  
                                _show = true;  
                                setState(() {});  
                            },  
                            child: Text("Show Bottom Sheet"),  
                        ),  
                    ],  
                ),  
            ),  
            bottomSheet: _showBottomSheet()  
        );  
    }  
}
```



```
● ● ●  
Widget _showBottomSheet()  
{  
    if(_show) {  
        return BottomSheet(  
            onClosing: () {  
            },  
            builder: (context) {  
                return Container(  
                    height: 200,  
                    width: double.infinity,  
                    color: Colors.grey.shade200,  
                    alignment: Alignment.center,  
                    child: ElevatedButton(  
                        child: Text("Close Bottom Sheet"),  
                        style: ElevatedButton.styleFrom(  
                            onPrimary: Colors.white,  
                            primary: Colors.green,  
                        ),  
                        onPressed: () {  
                            _show = false;  
                            setState(() {});  
                        },  
                    ),  
                );  
            },  
        );  
    }  
    else{  
        return null;  
    }  
}
```

Terima Kasih



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