

Komponen dalam Mendesain Aplikasi

TI2137 - Pengembangan Aplikasi Mobil Front-End



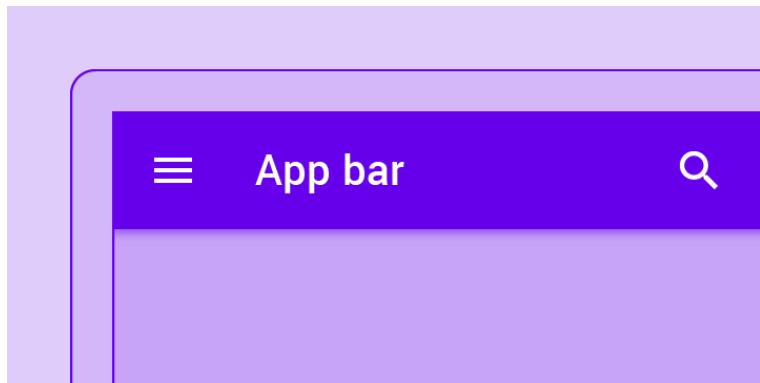
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Team Teaching

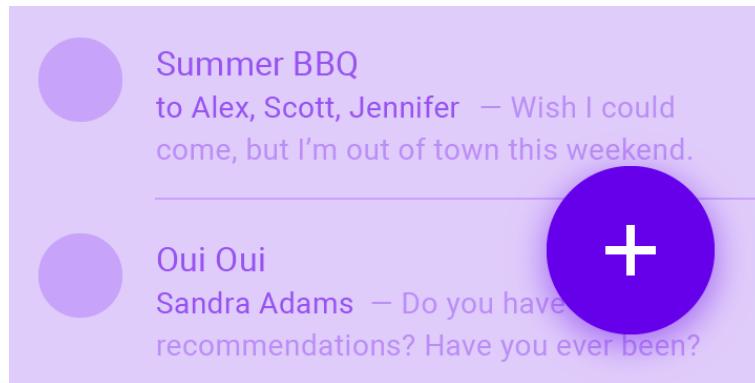
- Sunaryo Winardi, S.Kom., M.TI.
- Sio Jurnalis Pipin, S.Kom., M.Kom.
- M. Taufiq Hidayat Pohan, S.Kom.
- Richy Rotuahta Saragih, S.Kom.



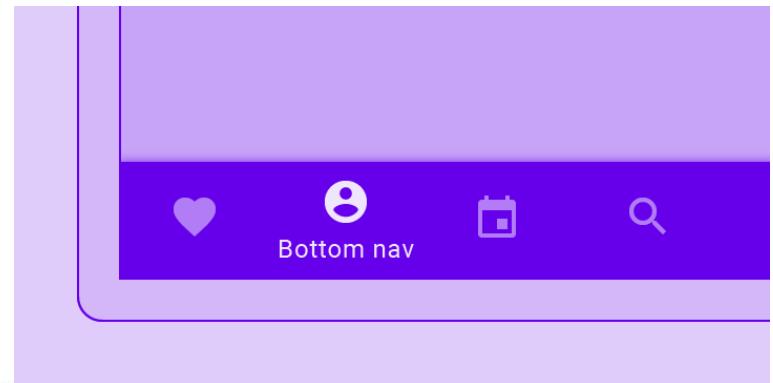
Komponen dalam Mendesain Aplikasi Part. 5



App Bar

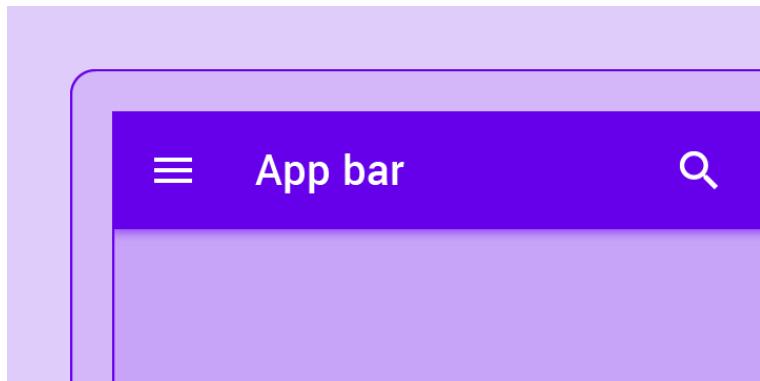


Floating Action Button

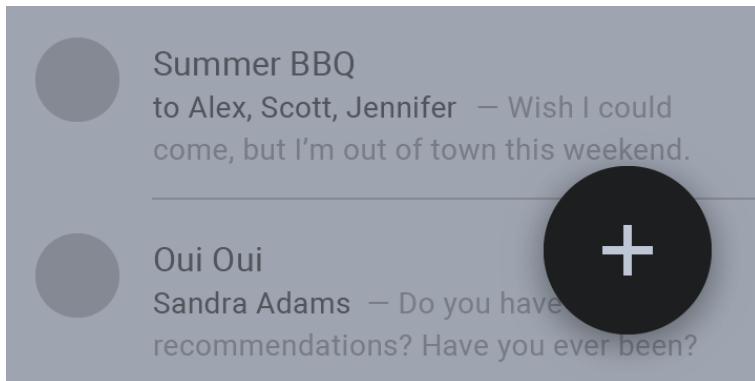


Bottom Navigation

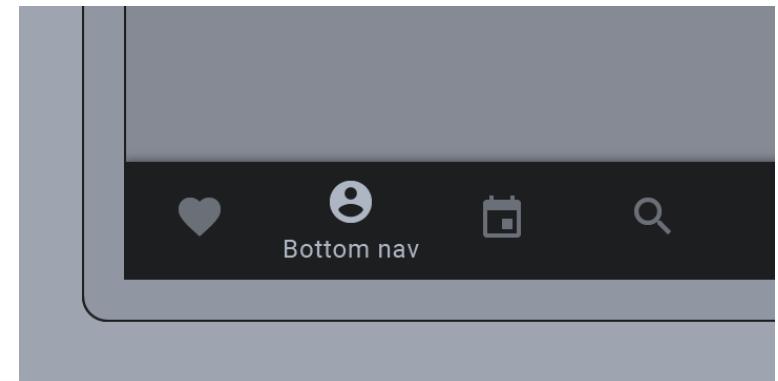
Komponen dalam Mendesain Aplikasi Part. 5



App Bar



Floating Action Button



Bottom Navigation

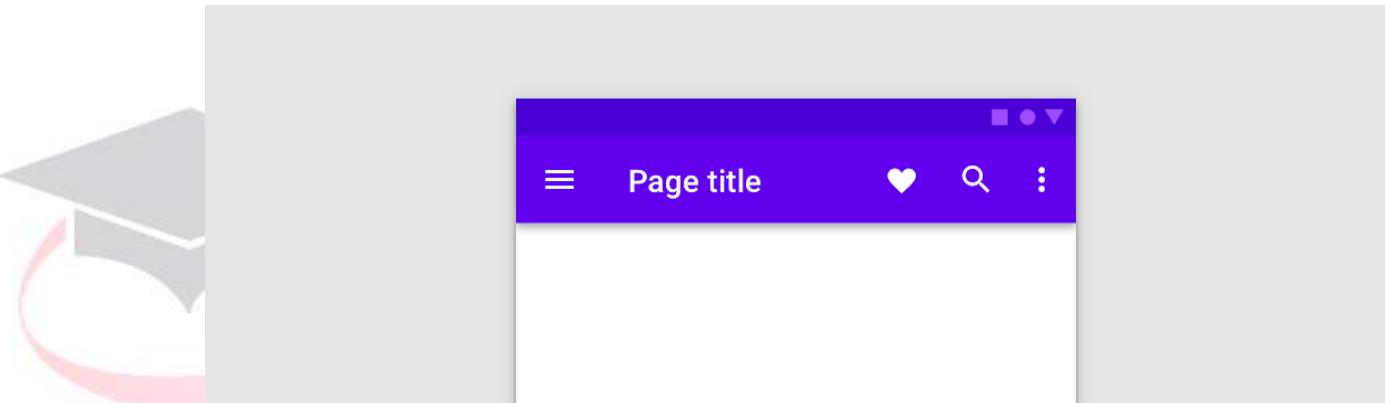
App Bar



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App Bar adalah...

- Sebuah bar aplikasi
- Menampilkan info dan action sesuai page yang ditampilkan



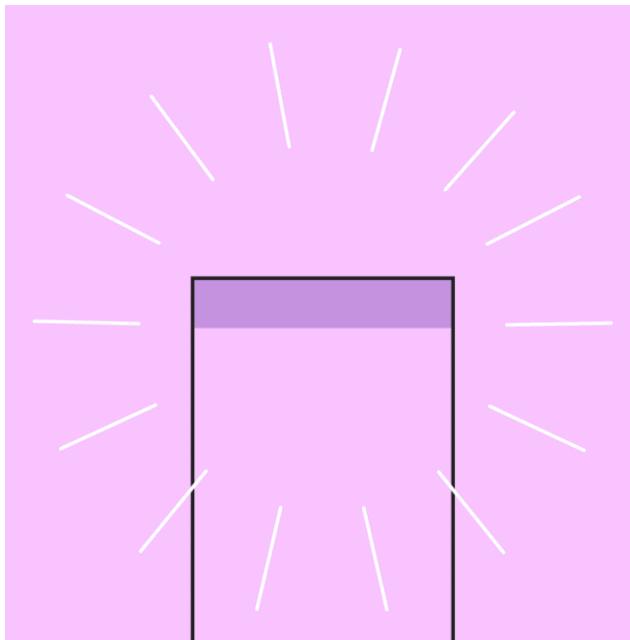
Penggunaan

- Digunakan untuk branding, screen titles, navigasi, dan action
- Bisa diubah menjadi contextual action bar

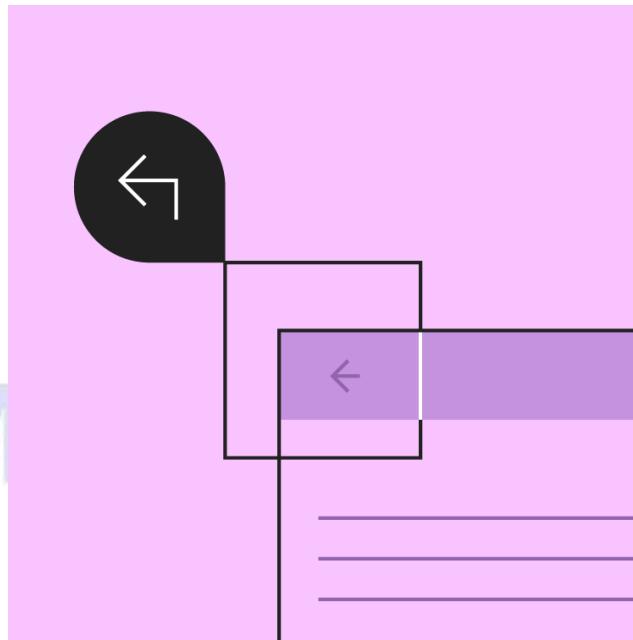


Principle of App Bar

Persistent



Guiding

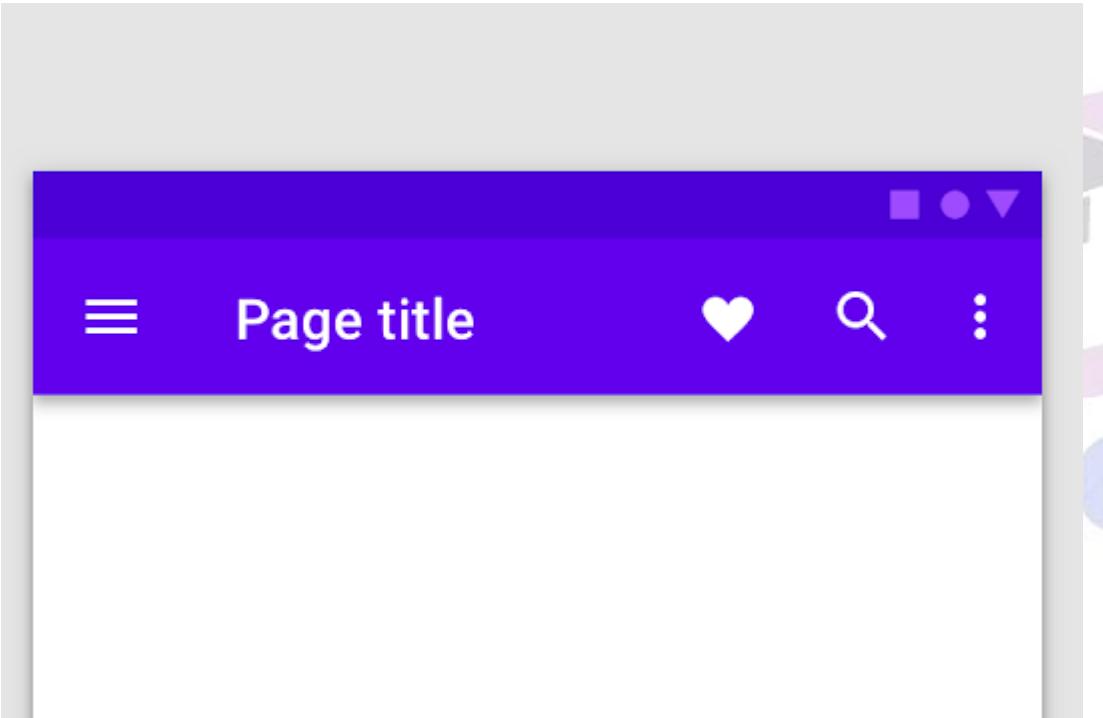


Consistent

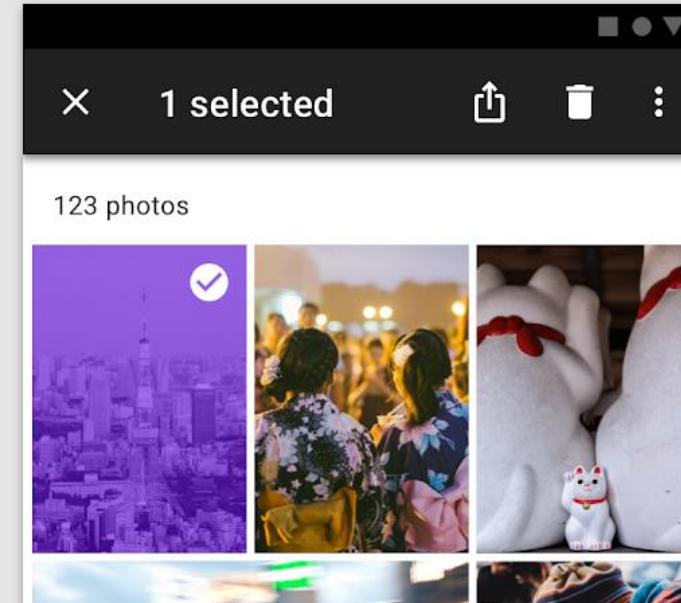


Jenis-jenis Action Bar

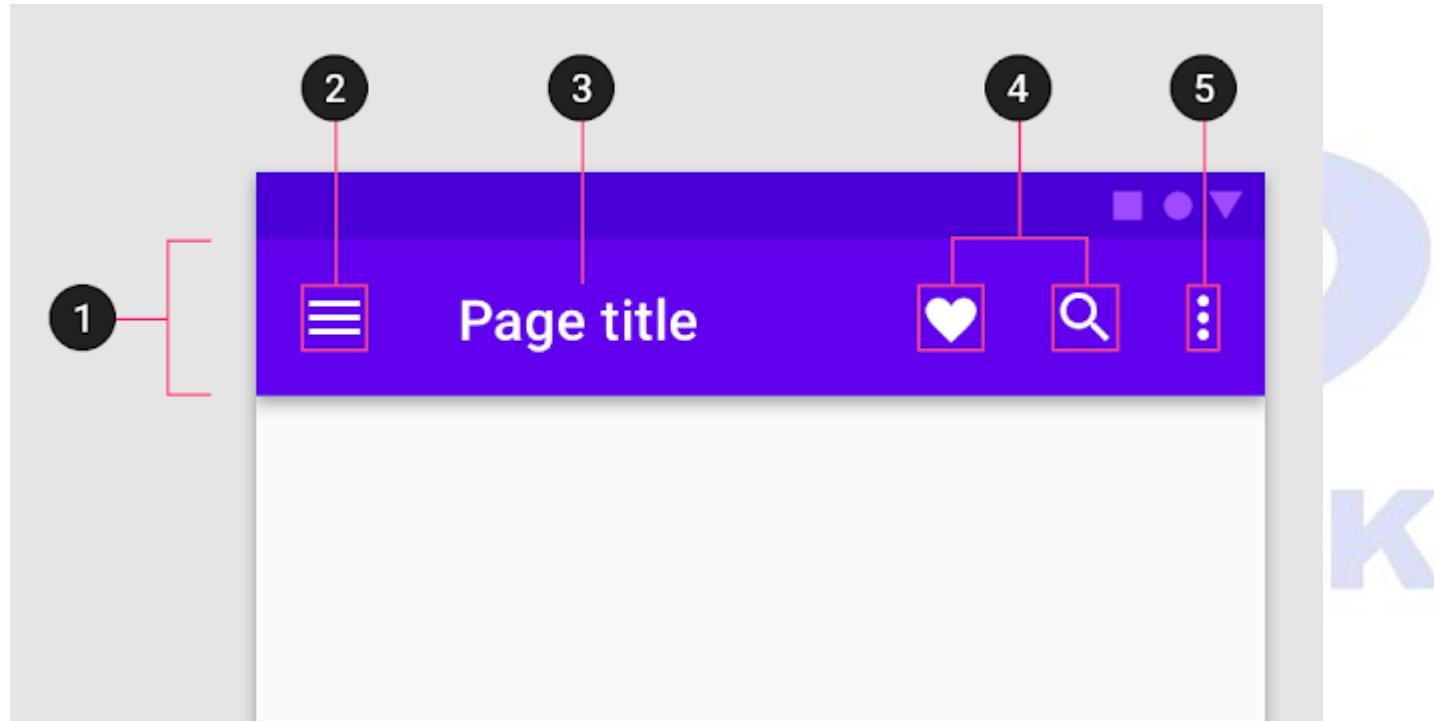
Regular



Contextual Action bar



Anatomi



- 1. Container**
- 2. Navigation icon (optional)**
- 3. Title (optional)**
- 4. Action items (optional)**
- 5. Overflow menu (optional)**

Bar

- Menampung konten di app bar
- Memiliki beberapa jenis ketinggian yang berbeda
 - Regular
 - Prominent
 - Dense (desktop only)
 - Prominent dense (desktop only)

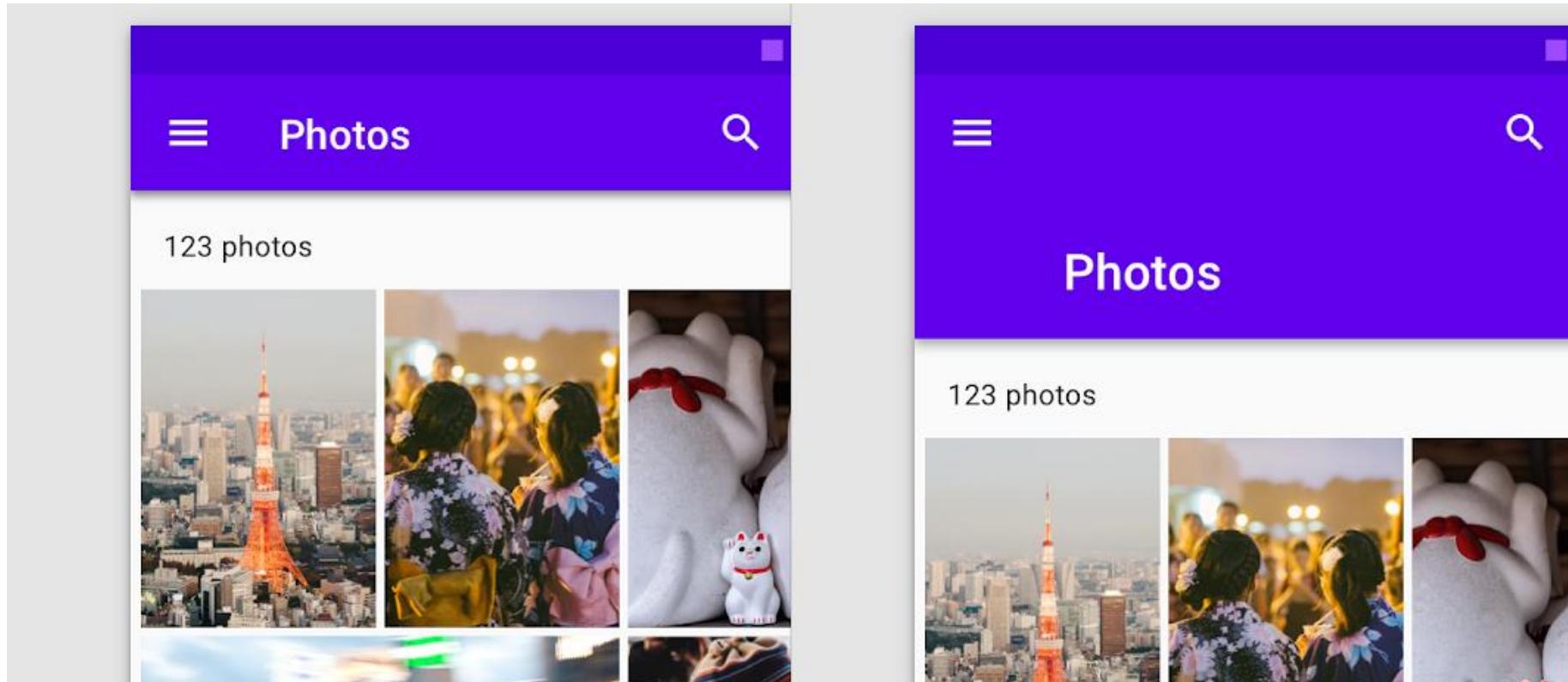


Prominent

- Digunakan untuk title yang panjang, menaruh foto di dalamnya, atau untuk app bar semakin mencolok.



Regular vs Prominent

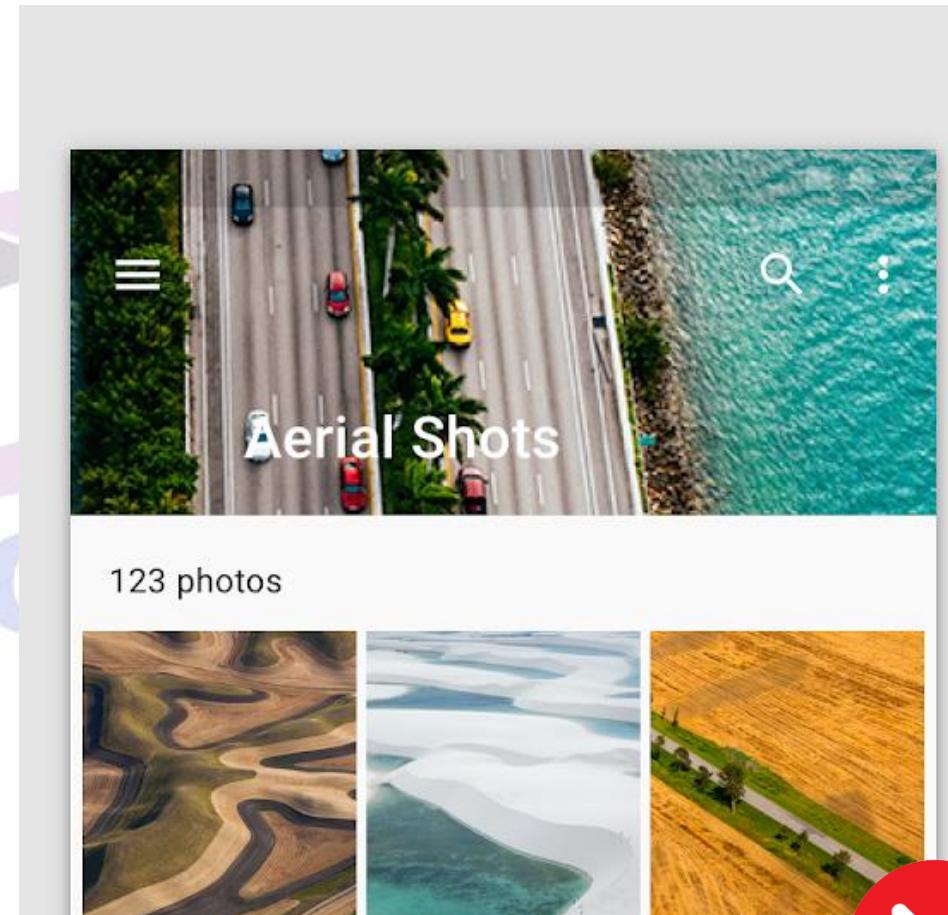
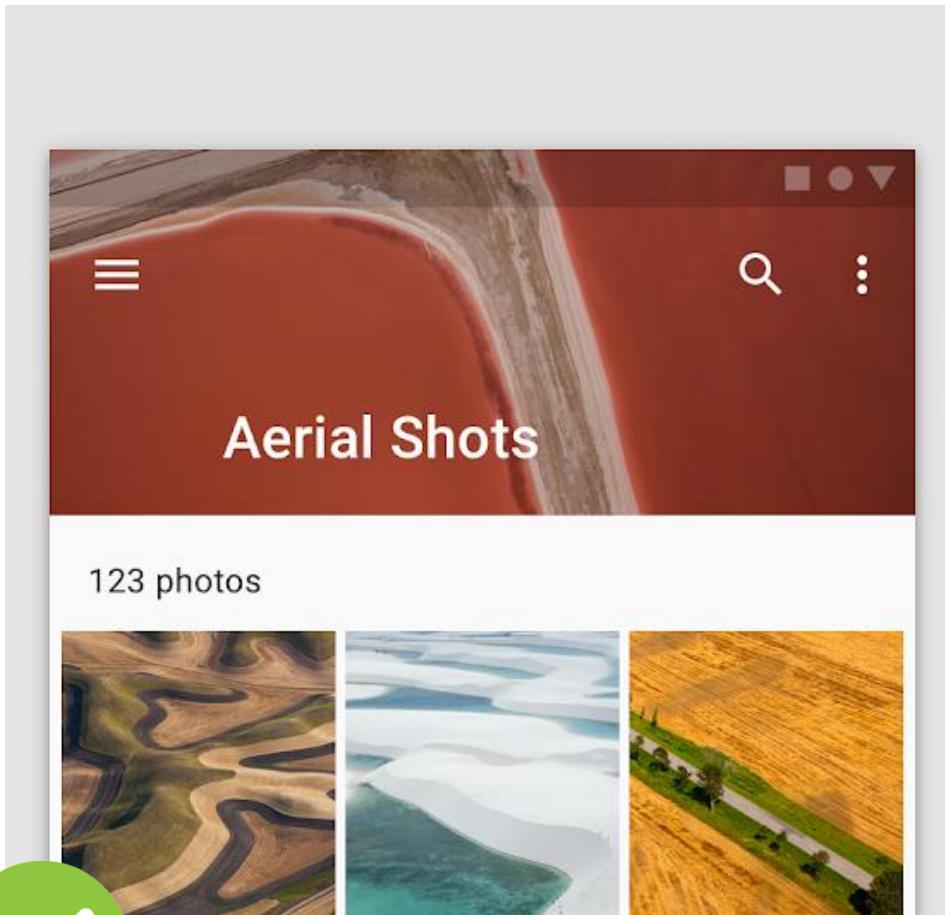


Images in Bars

- Gambar bisa di letakkan di app bar.
- Disarankan menggunakan Prominent Bar
- **Jangan Gunakan Gambar yang membuat Tulisan dan Icon kurang jelas terlihat.**

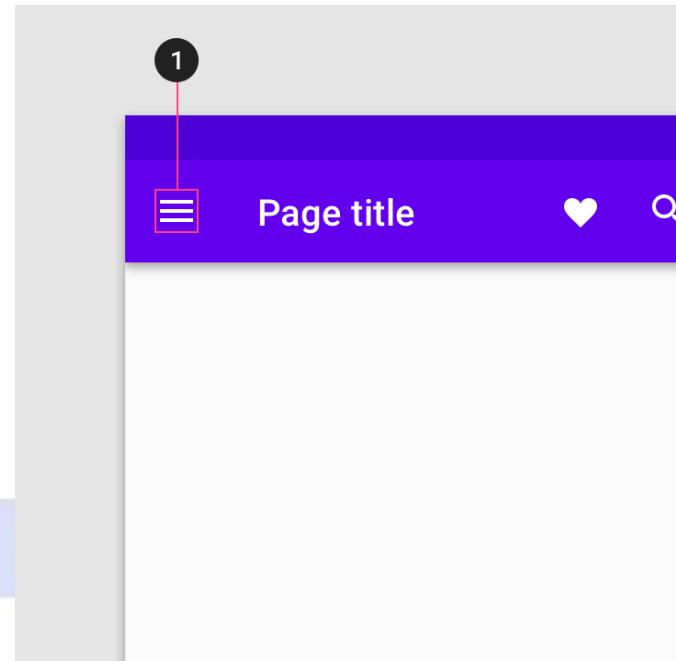
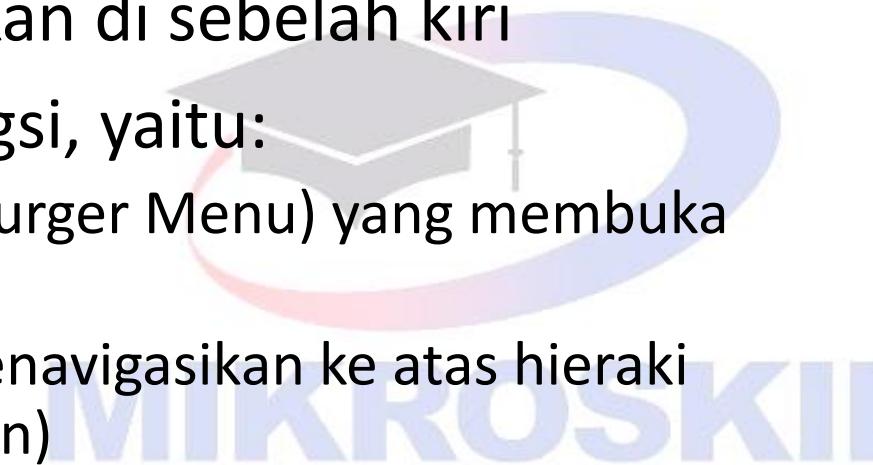


Images in Bars



Navigation Icon

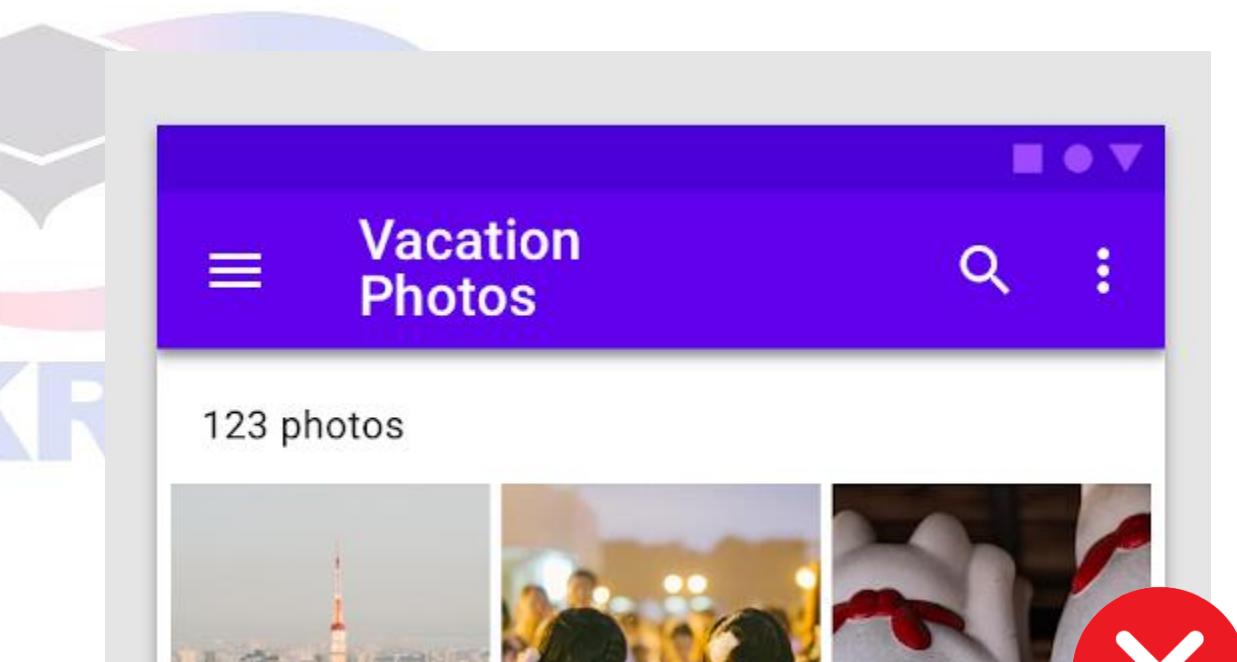
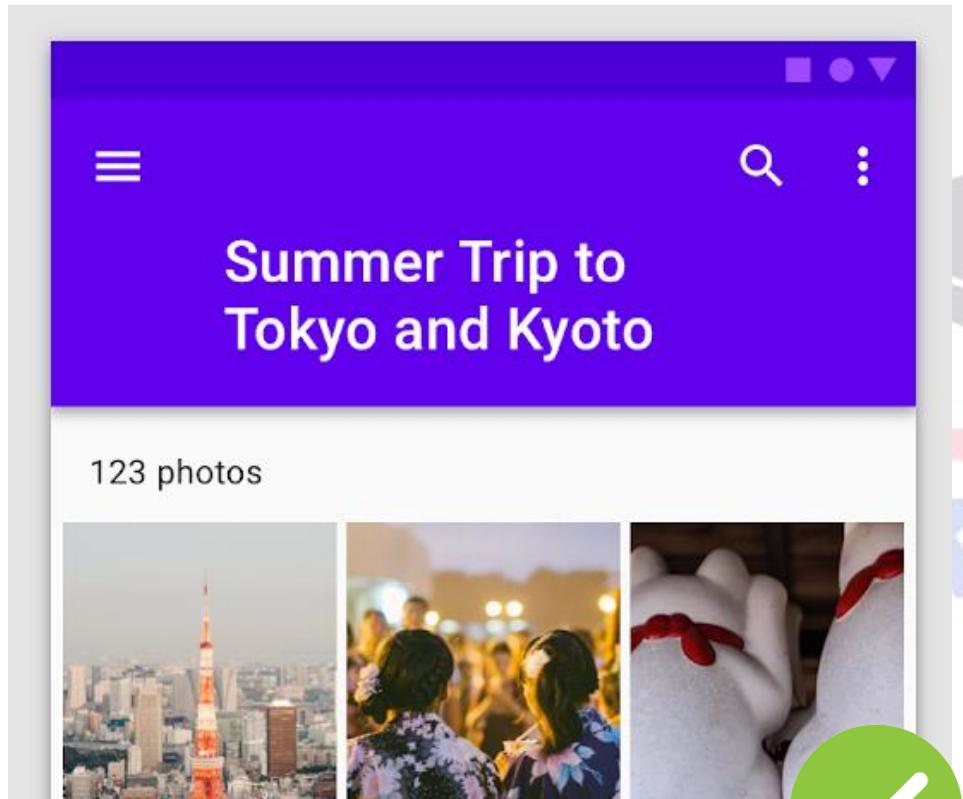
- Sebuah icon navigasi yang bersifat **opsional**
- Posisinya kebanyakan di sebelah kiri
- Memiliki salah fungsi, yaitu:
 - Icon Menu (Hamburger Menu) yang membuka navigation drawer
 - Up Arrow yang menavigasikan ke atas hierarki aplikasi (Top Button)
 - Back Arrow untuk kembali ke layar sebelumnya



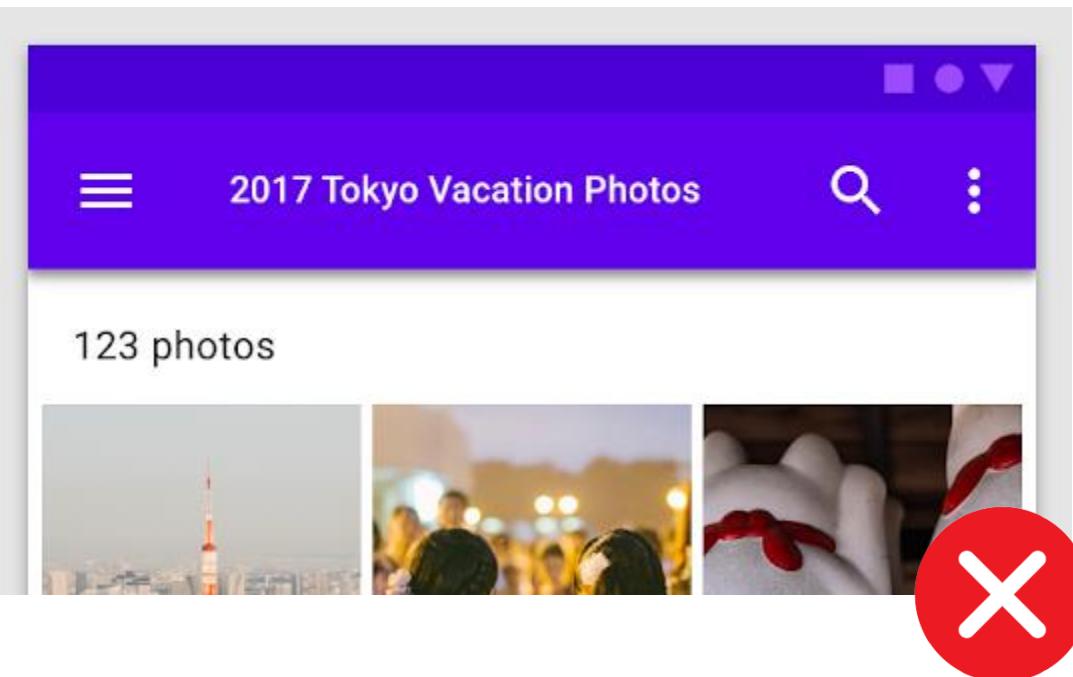
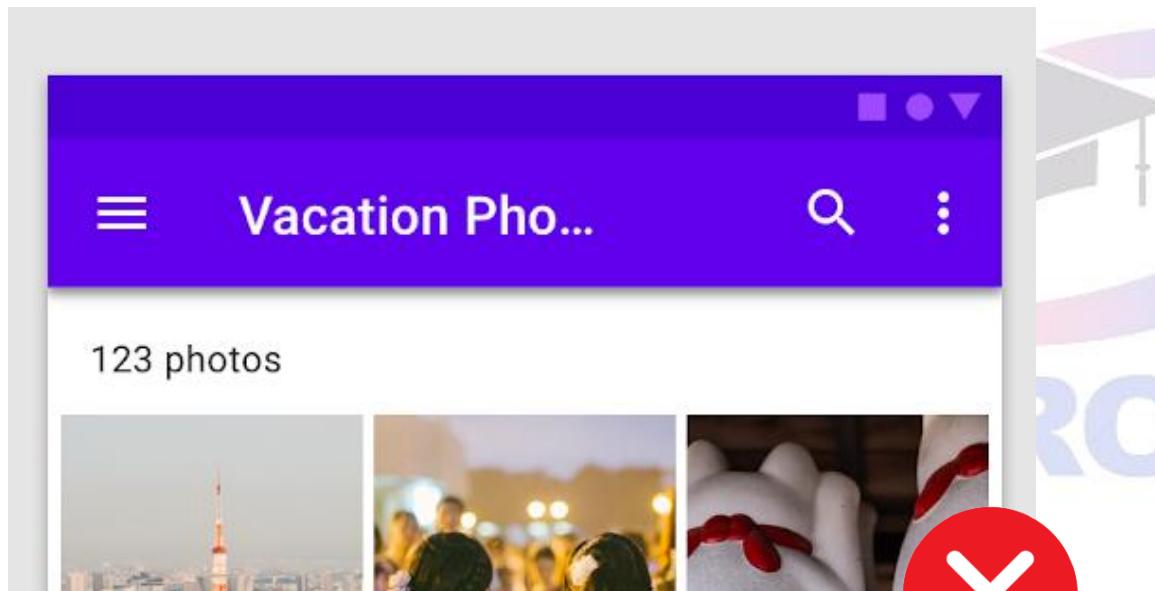
Title

- Bersifat **Opsional**
- Berguna untuk mendeskripsikan mengenai
 - Layar yang sedang digunakan pengguna
 - Posisi saat ini
 - Aplikasi yang digunakan saat ini
- Posisi title bisa berbeda-beda tergantung sistem operasi yang digunakan.

Title

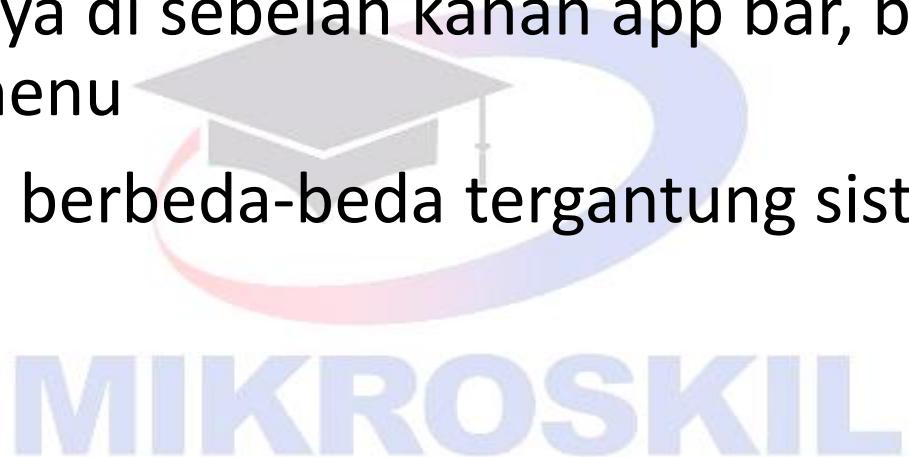


Title

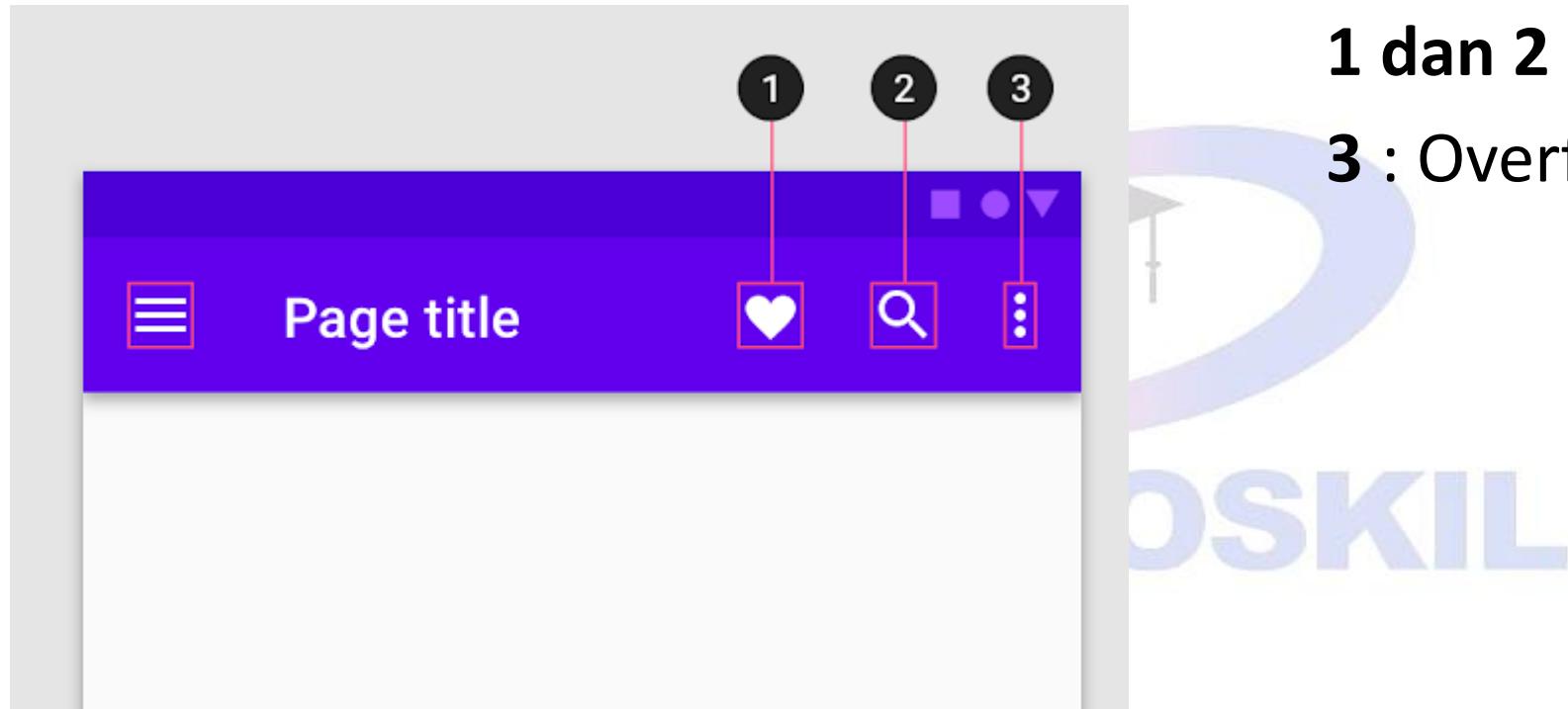


Action items and overflow menu

- Bersifat **Opsional**
- Action items posisinya di sebelah kanan app bar, baik sebagai icon maupun overflow menu
- Overflow menu bisa berbeda-beda tergantung sistem operasi yang digunakan.



Action items and overflow menu



1 dan 2 : Action Items (Icon)

3 : Overflow Menu

Cross-Platform Adaptation

- Di iOS, app bar disebut sebagai **Navigation Bars**
- Tingginya lebih pendek daripada App Bar Android
- Disarankan untuk menggunakan text alignment default pada OS device, kecuali beberapa action button



Cross-Platform Adaptation

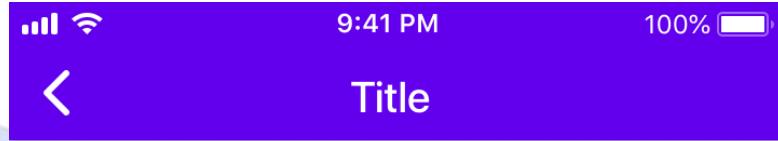
Android

Titles rata kiri secara default



iOS

Titles rata tengah secara default



Android

12:30



Title



iOS



9:41 PM



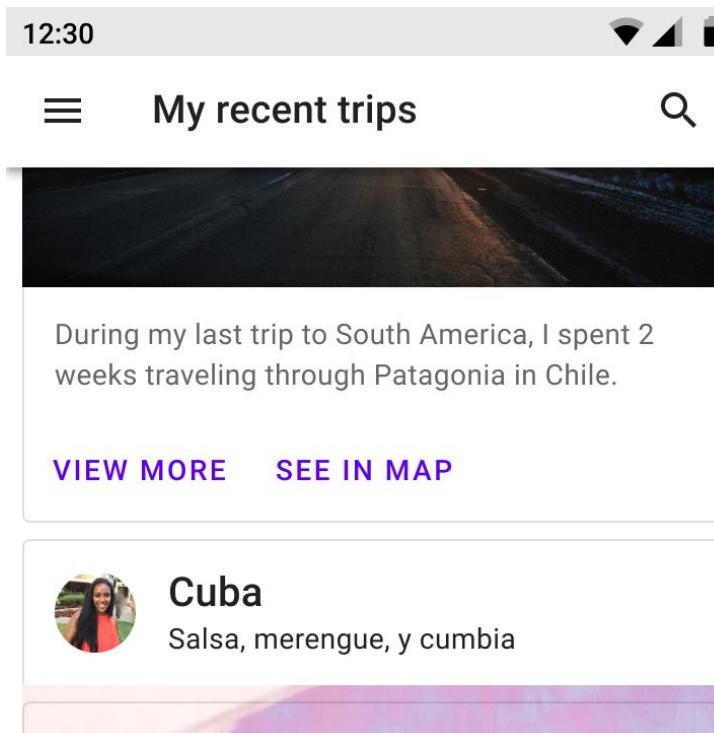
Title



Cross-Platform Adaptation

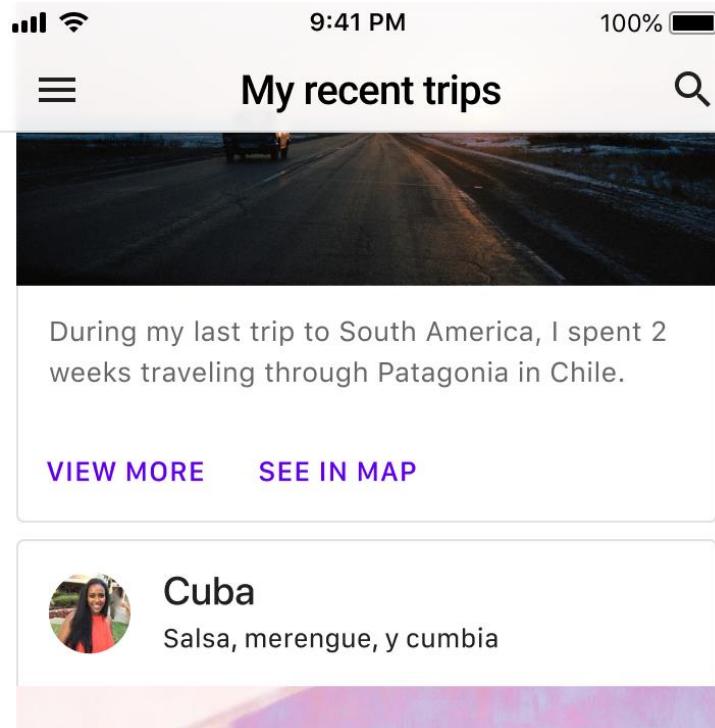
Android

Menggunakan shadow sebagai elevation



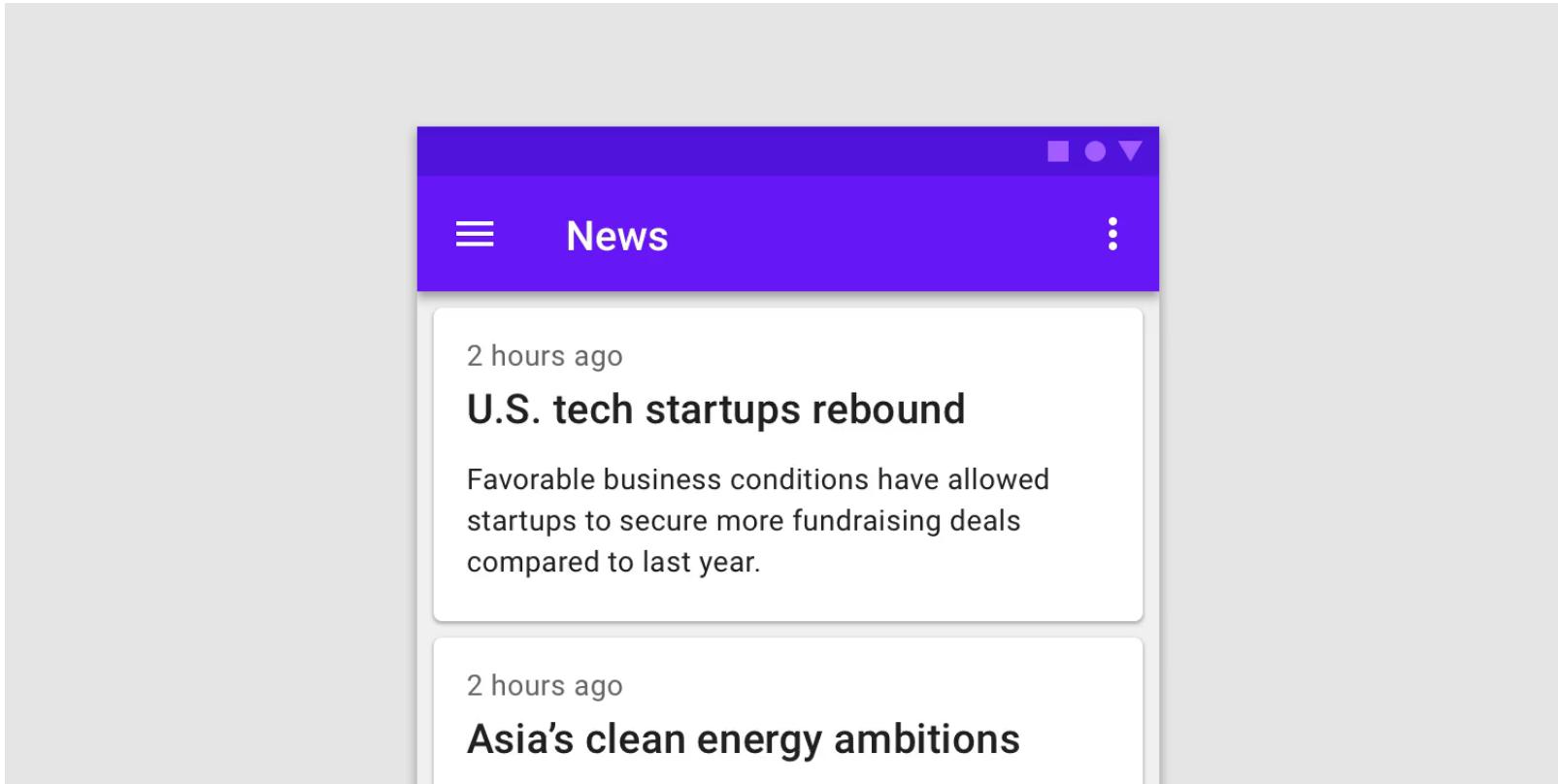
iOS

Dapat memiliki opsi translucency sebagai elevation di iOS.



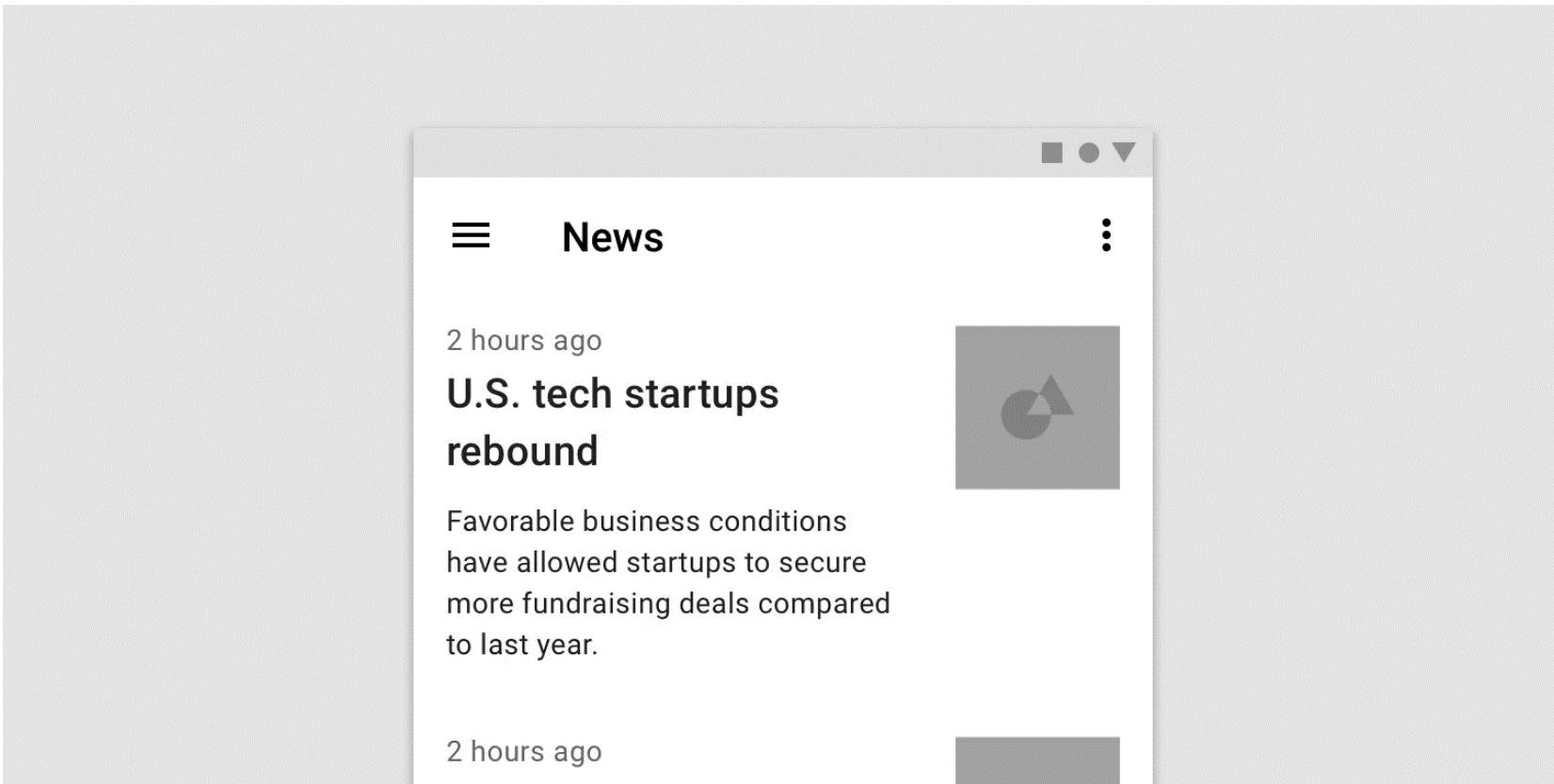
Behavior

App bar akan hilang Ketika scroll down dan tampil Ketika scroll up



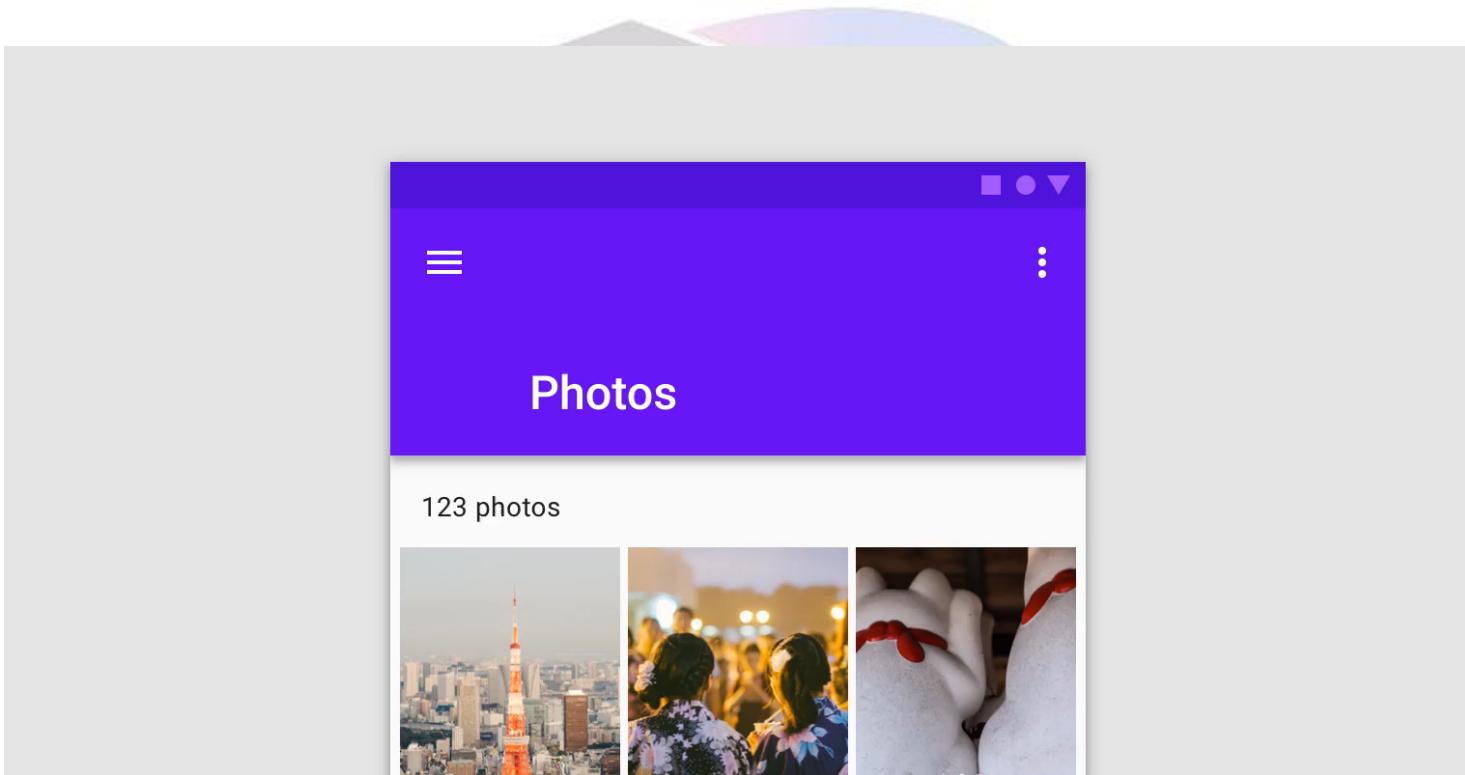
Behavior

App bar akan dapat diposisikan sama dengan kontennya, dan elevasinya naik ketika konten di scroll



Behavior

Ketika scroll up, prominent app bar yang menggunakan gambar akan berubah jadi app bar regular. App bar tidak akan berubah ke mode prominent, sampai pengguna scroll hingga ke bagian awal halaman



Behavior

Ketika app bar mengalami resized, action icon akan masuk ke overflow menu dari paling kanan ke paling kiri

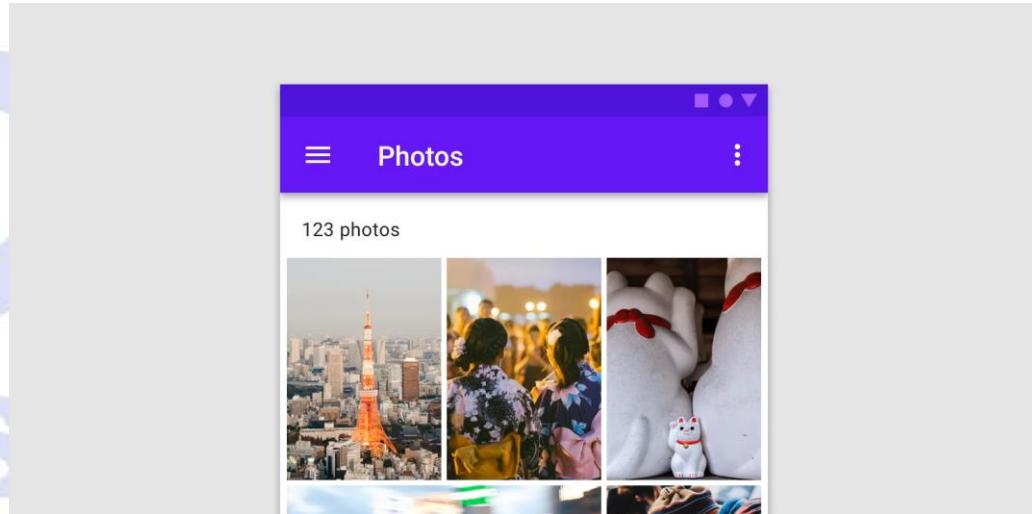
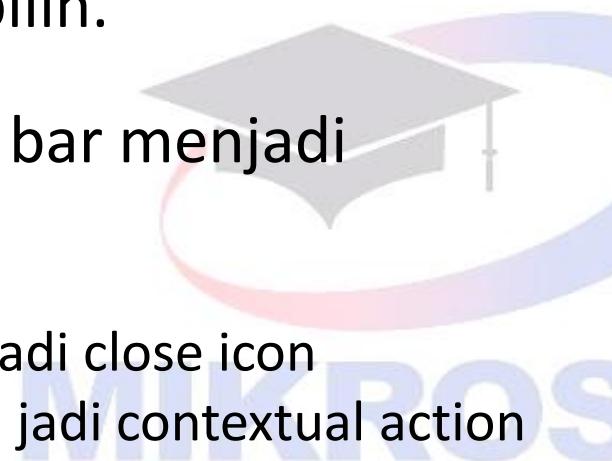


Contextual Action Bar

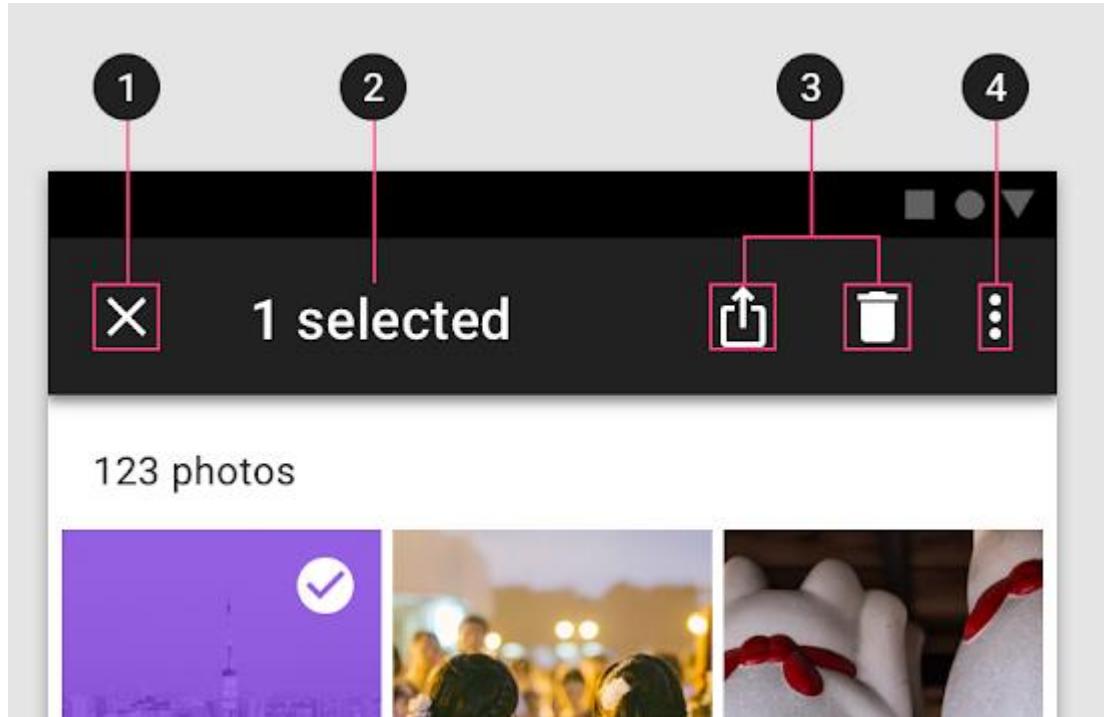
App Bar dapat menjadi Contextual action bar yang menyediakan contextual action terhadap item yang dipilih.

Yang terjadi Ketika app bar menjadi Contextual action bar

- Warna bar berubah
- Navigation icon menjadi close icon
- Text app bar berubah jadi contextual action bar text
- App Bar action berubah menjadi contextual action
- Setelah ditutup, contextual action bar Kembali jadi app bar biasa



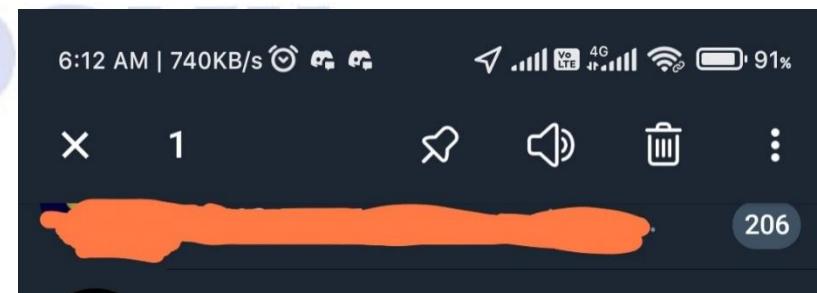
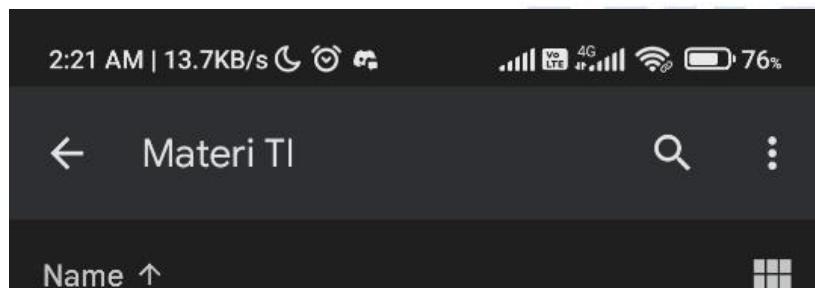
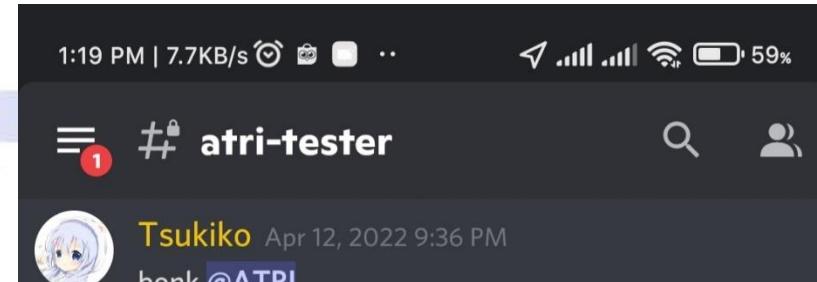
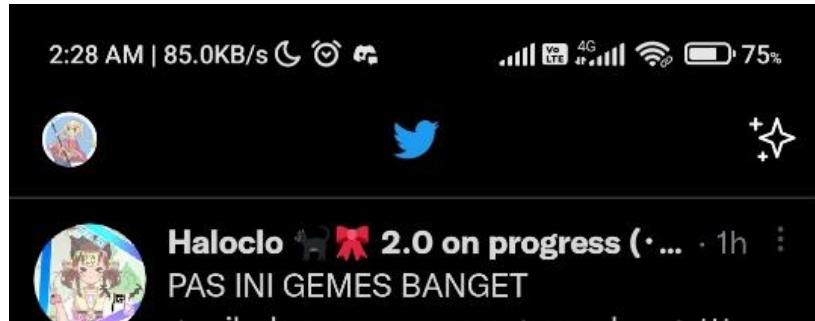
Anatomi



1. Close button (instead of a navigation icon)
2. Contextual title
3. Contextual actions
4. Overflow menu (optional)

OSKIL

Contoh Implementasi App Bar



Penerapan di Flutter

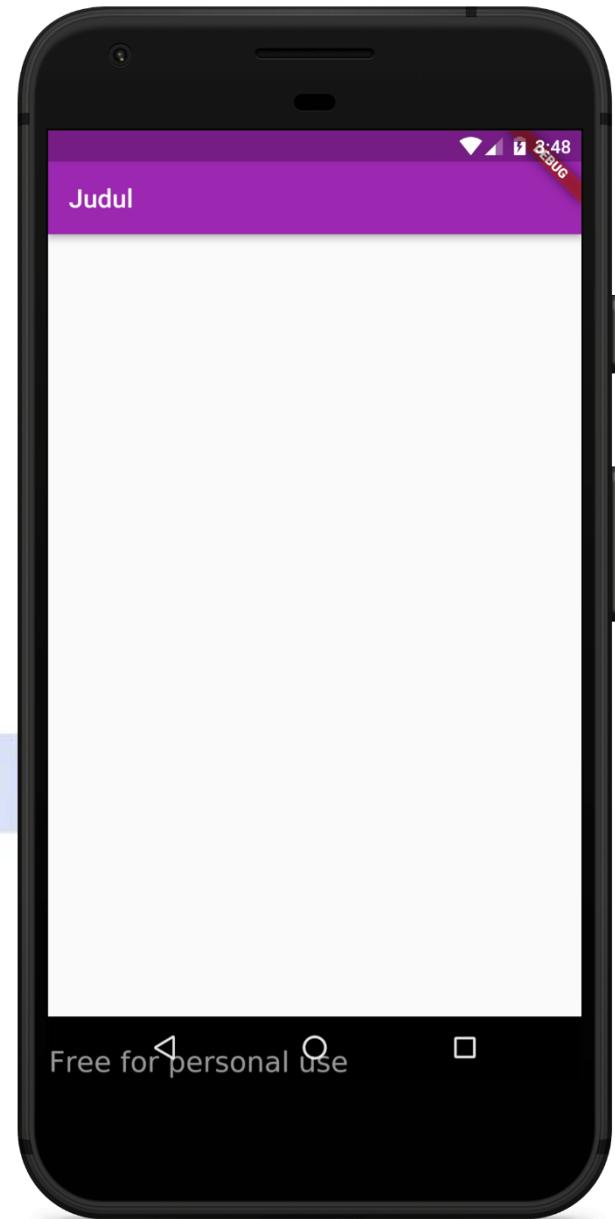


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Implementasi di Flutter

```
Scaffold(  
    appBar: AppBar(  
        title: Text("Judul")  
    ),  
);
```



Property di App Bar

Property	Class/Data Type	Deskripsi
leading	Widget?	Menampilkan widget di app bar paling kiri
automaticallyImplyLeading	bool	Auto generate leading widget. Contohnya Ketika menambahkan drawer, maka hamburger menu otomatis muncul
title	Widget?	Menampilkan title yang deskripsikan screen sekarang
centerTitle	bool?	Set title agar rata tengah
actions	List<Widget>?	List widget yang ditampilkan di sebelah kanan app bar
elevation	double?	Memberikan elevation (shadow) di app bar

Property lain dapat dilihat [di sini](#) dan [di sini](#)

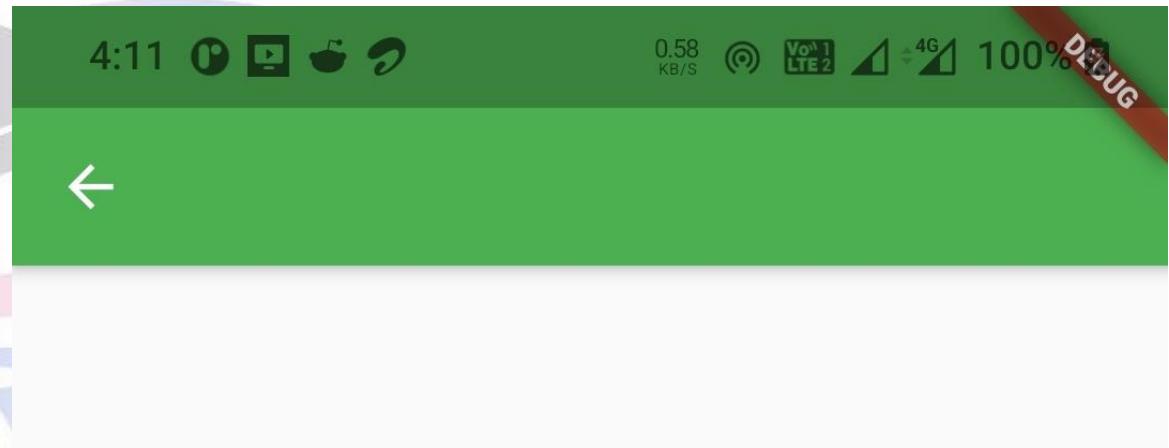
Property di App Bar

Property	Class/Data Type	Deskripsi
shadowColor	Color?	Mengatur warna bayangan
shape	ShapeBorder?	Mengatur bentuk dari app bar
backgroundColor	Color?	Mengatur warna background pada app bar
textTheme	TextTheme?	Mengatur theme untuk text di app bar
actionsIconTheme	IconThemeData?	Mengatur theme untuk action icon
toolbarHeight	double?	Mengatur tinggi app bar



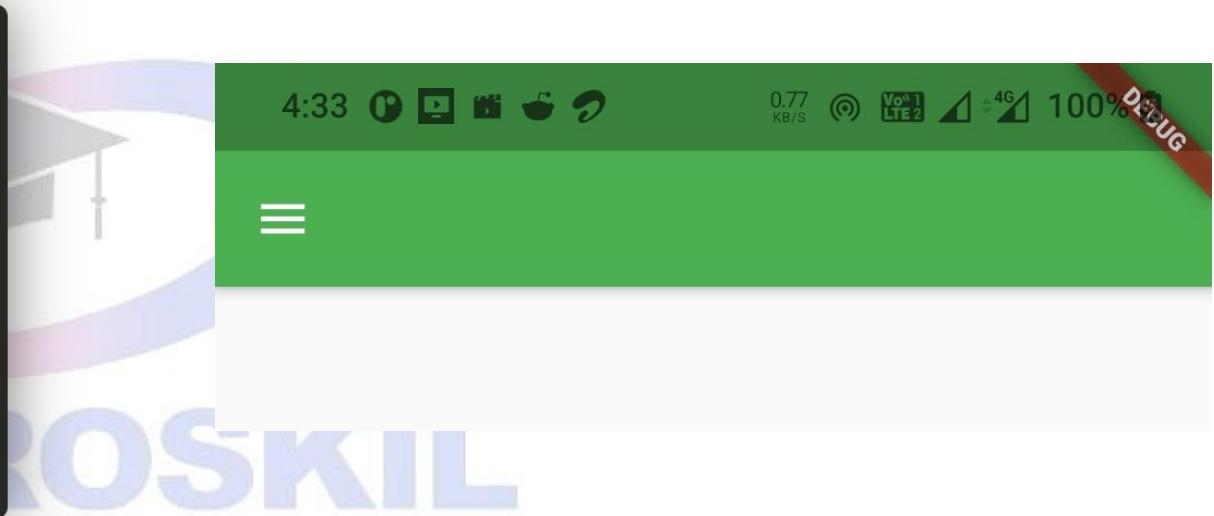
Contoh penggunaan property leading

```
● ○ ●  
Scaffold(  
    appBar: AppBar(  
        leading: Icon(Icons.arrow_back),  
    ),  
    body: Container()  
,
```



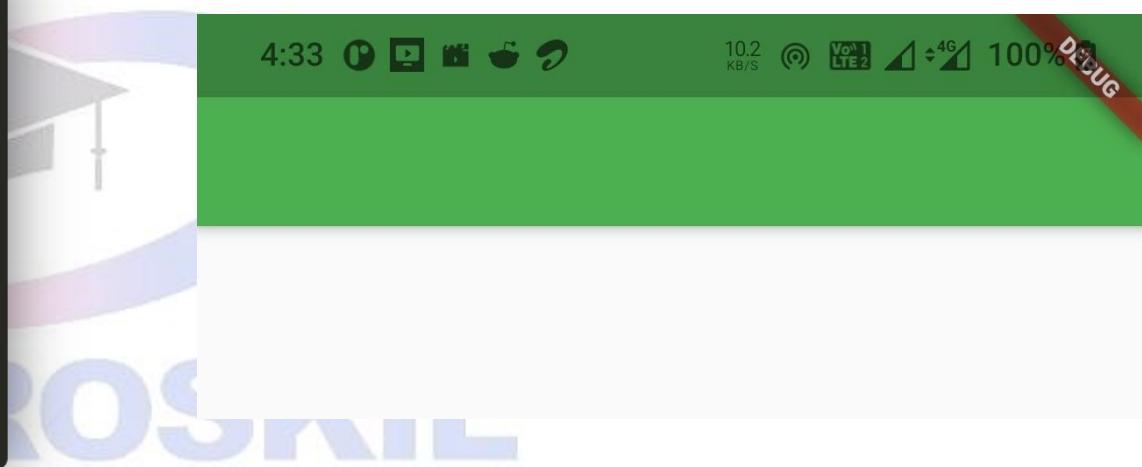
Contoh penggunaan property automaticallyImlyLeading

```
Scaffold(  
    appBar: AppBar(  
        automaticallyImlyLeading: true,  
    ),  
    drawer: Drawer(),  
    body: Container()  
,
```



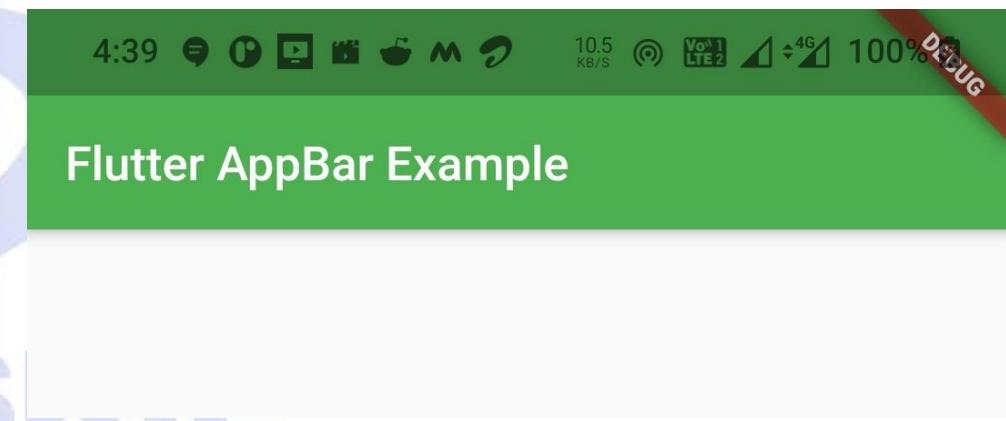
Contoh penggunaan property automaticallyImlyLeading

```
Scaffold(  
    appBar: AppBar(  
        automaticallyImlyLeading: false,  
    ),  
    drawer: Drawer(),  
    body: Container()  
,
```



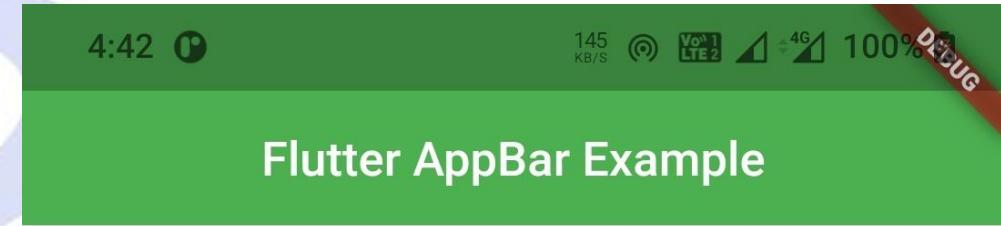
Contoh penggunaan property title

```
Scaffold(  
    appBar: AppBar(  
        title: Text("Flutter AppBar Example"),  
    ),  
    body: Container()  
,
```



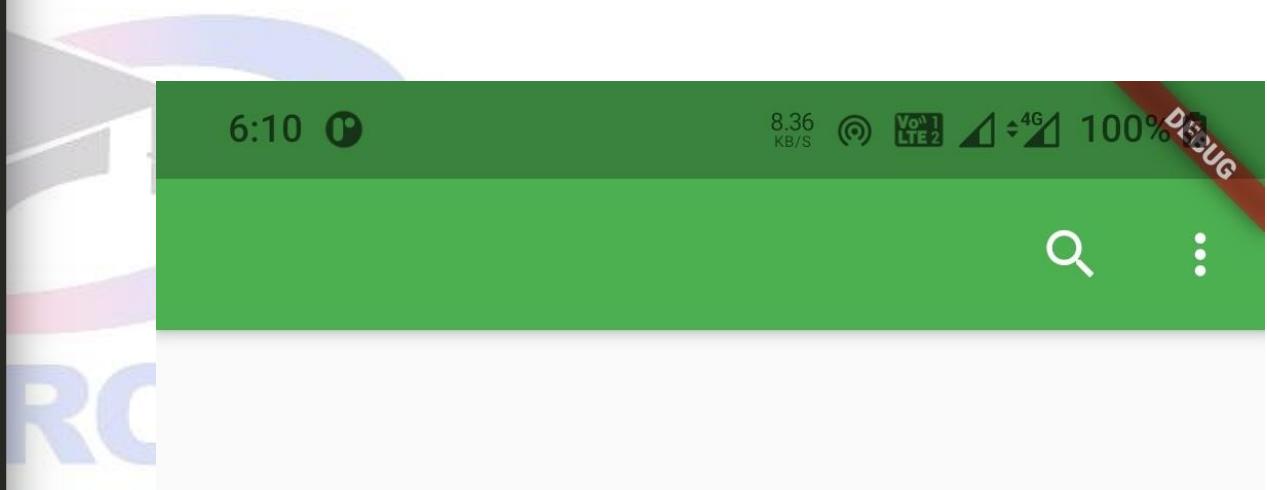
Contoh penggunaan property centerTitle

```
Scaffold(  
    appBar: AppBar(  
        title: Text("Flutter AppBar Example"),  
        centerTitle: true,  
    ),  
    body: Container()  
,
```



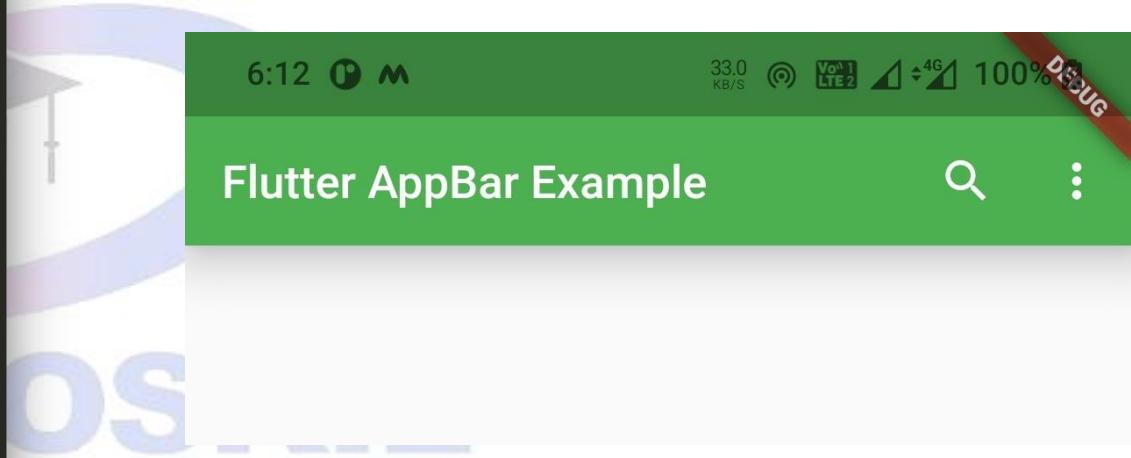
Contoh penggunaan property actions

```
Scaffold(  
    appBar: AppBar(  
        actions: [  
            IconButton(  
                icon: Icon(Icons.search),  
                onPressed: () {  
                },  
            ),  
            IconButton(  
                icon: Icon(Icons.more_vert),  
                onPressed: () {  
                },  
            ),  
        ],  
    ),  
    body: Container()  
>);
```



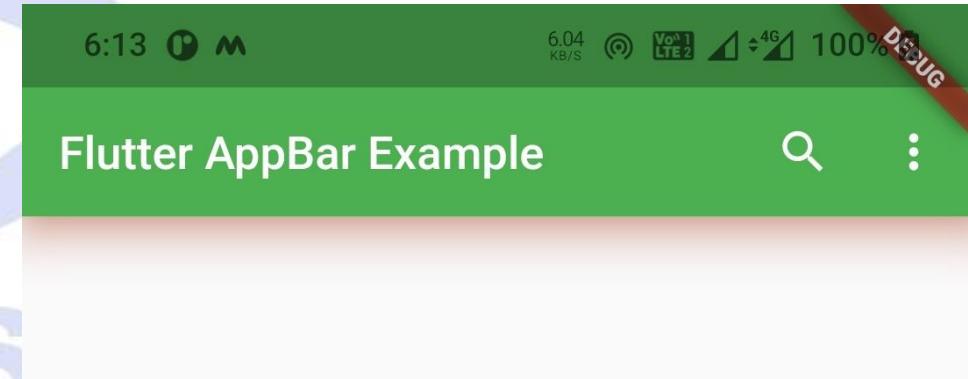
Contoh penggunaan property elevation

```
Scaffold(  
    appBar: AppBar(  
        title: Text("Flutter AppBar Example"),  
        actions: [  
            Icon(Icons.search),  
            Icon(Icons.more_vert)  
        ],  
        elevation: 8,  
    ),  
    body: Container()  
);
```



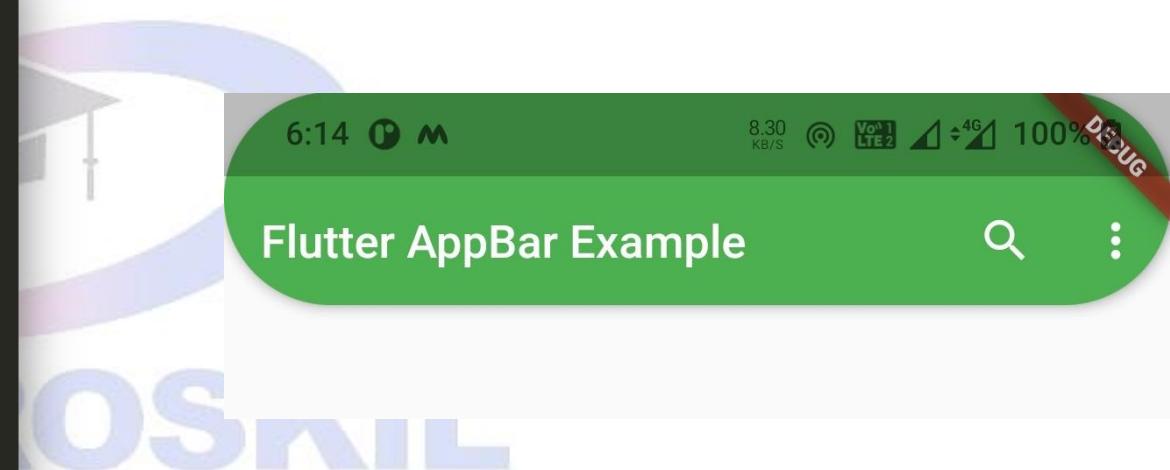
Contoh penggunaan property **shadowColor**

```
Scaffold(  
    appBar: AppBar(  
        title: Text("Flutter AppBar Example"),  
        actions: [  
            Icon(Icons.search),  
            Icon(Icons.more_vert)  
        ],  
        elevation: 8,  
        shadowColor: Colors.deepOrange,  
    ),  
    body: Container()  
,
```



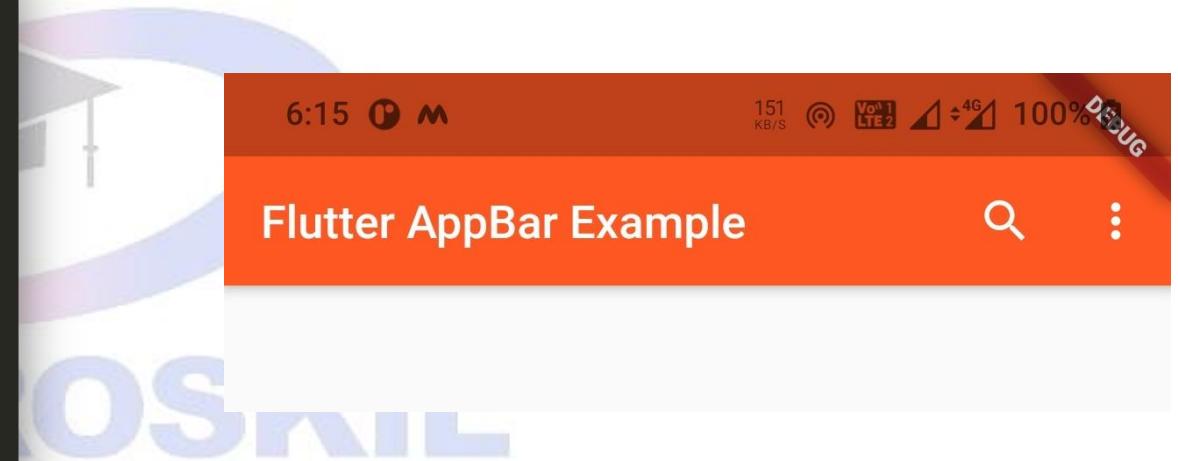
Contoh penggunaan property **shape**

```
● ○ ●  
Scaffold(  
    appBar: AppBar(  
        title: Text("Flutter AppBar Example"),  
        actions: [  
            Icon(Icons.search),  
            Icon(Icons.more_vert)  
        ],  
        shape: StadiumBorder(),  
    ),  
    body: Container()  
,
```



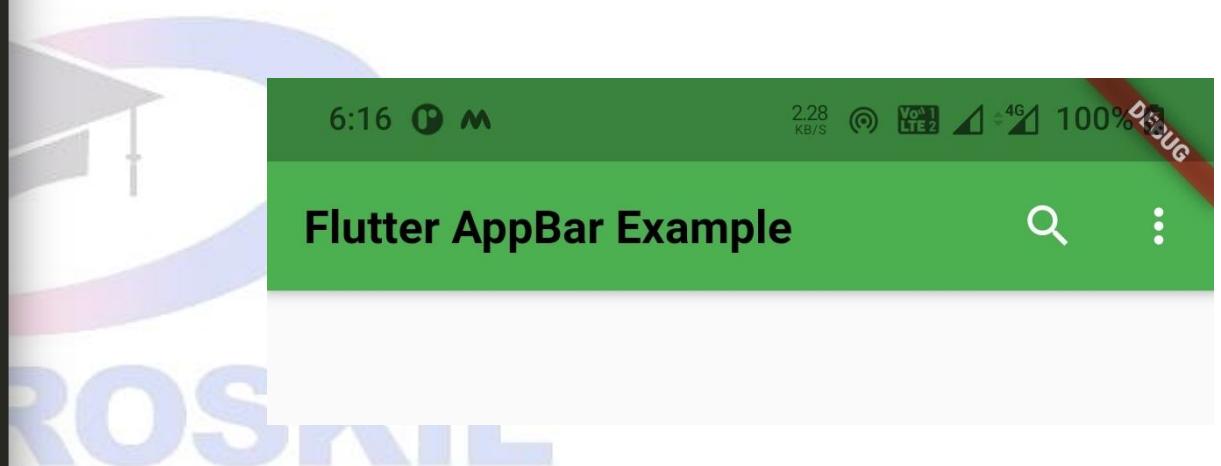
Contoh penggunaan property backgroundColor

```
Scaffold(  
    appBar: AppBar(  
        title: Text("Flutter AppBar Example"),  
        actions: [  
            Icon(Icons.more_vert)  
        ],  
        backgroundColor: Colors.deepOrange,  
    ),  
    body: Container()  
,
```



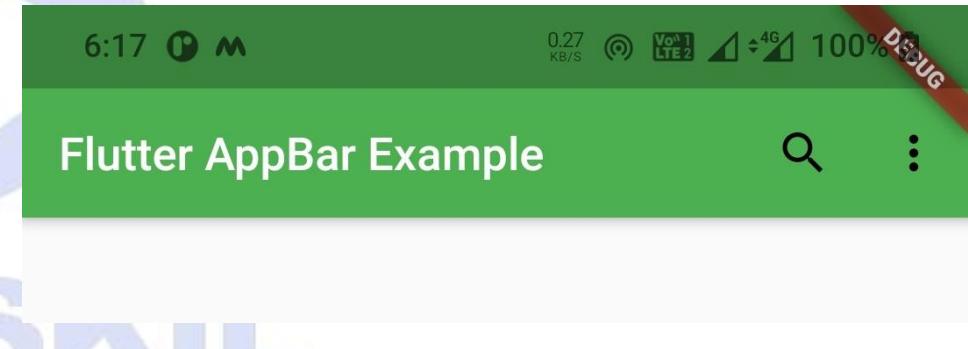
Contoh penggunaan property textTheme

```
Scaffold(  
    appBar: AppBar(  
        title: Text("Flutter AppBar Example"),  
        actions: [  
            Icon(Icons.more_vert)  
        ],  
        textTheme: TextTheme(  
            headline6: TextStyle(  
                color: Colors.black,  
                fontSize: 20,  
                fontWeight: FontWeight.bold  
            )  
        ),  
        body: Container()  
);
```



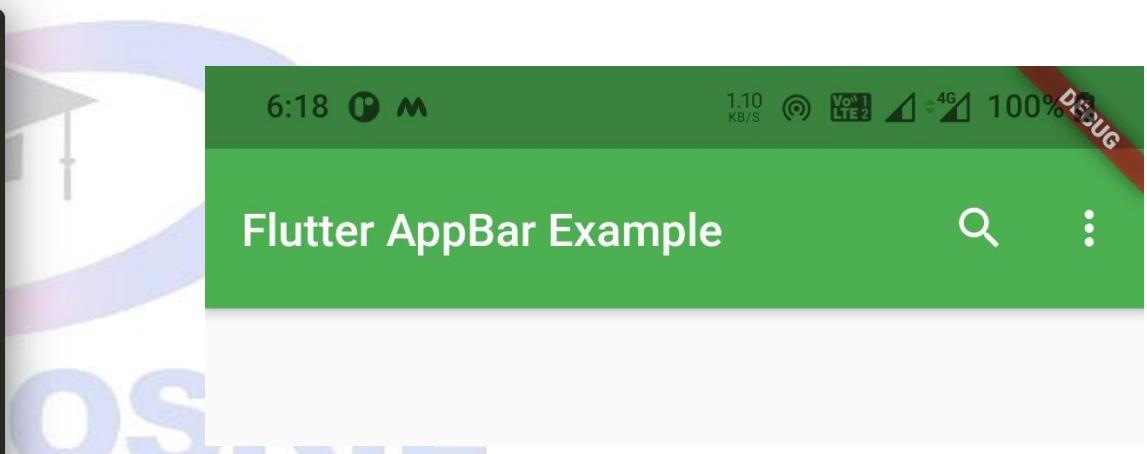
Contoh penggunaan property actionsIconTheme

```
Scaffold(  
    appBar: AppBar(  
        title: Text("Flutter AppBar Example"),  
        actions: [  
            Icon(Icons.more_vert)  
        ],  
        actionsIconTheme: IconThemeData(color:Colors.black, size: 40),  
    ),  
    body:Container()  
,
```

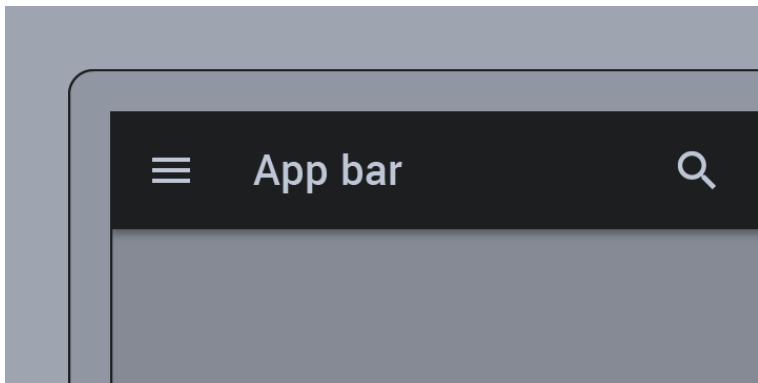


Contoh penggunaan property toolbarHeight

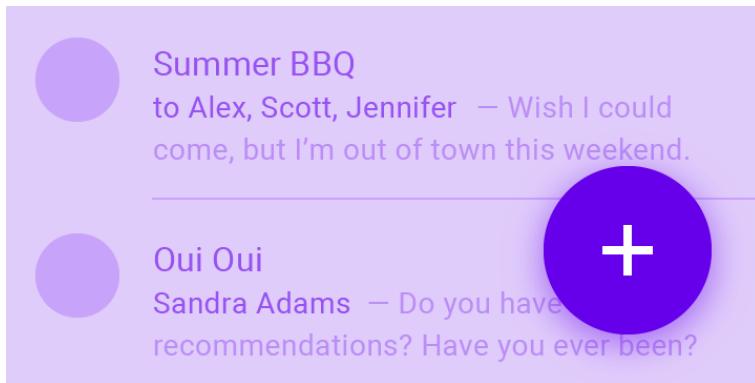
```
● ● ●  
Scaffold(  
    appBar: AppBar(  
        title: Text("Flutter AppBar Example"),  
        actions: [  
            Icon(Icons.search)  
        ],  
        toolbarHeight: 70,  
    ),  
    body: Container()  
) ;
```



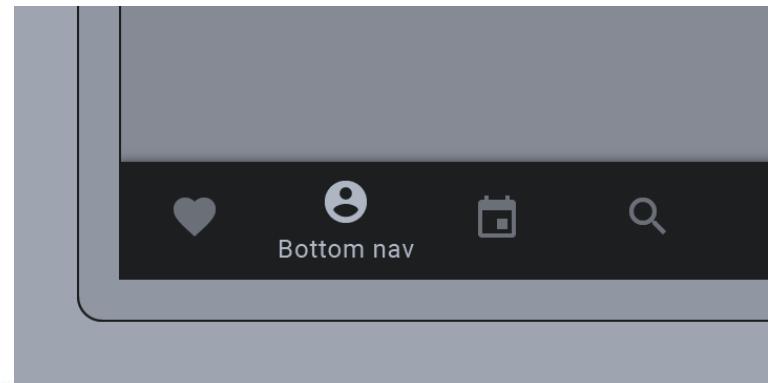
Komponen dalam Mendesain Aplikasi Part. 5



App Bar

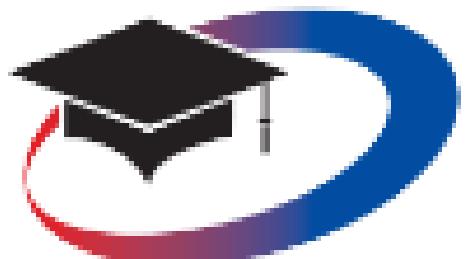


Floating Action Button



Bottom Navigation

Floating Action Button (FAB)

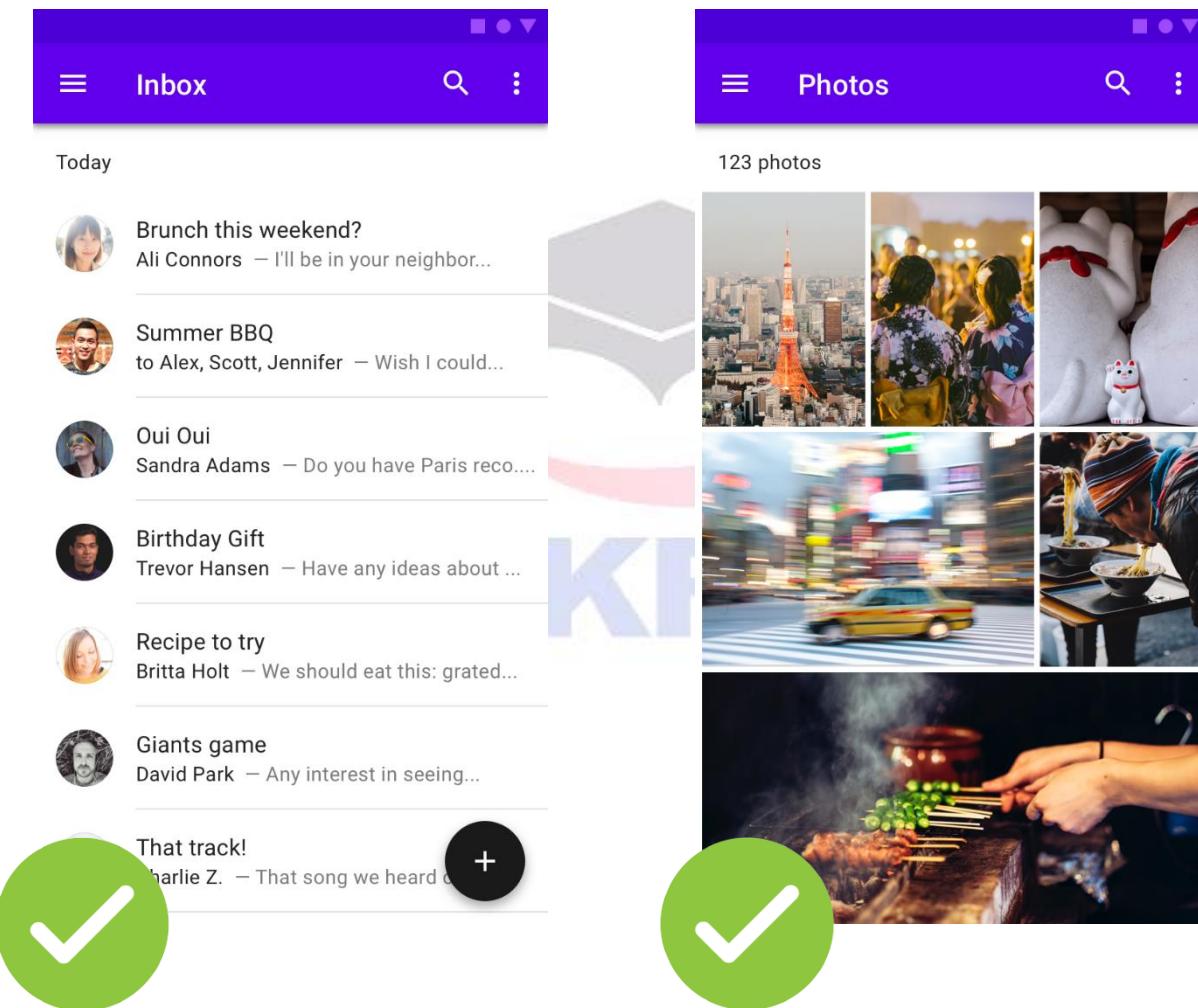


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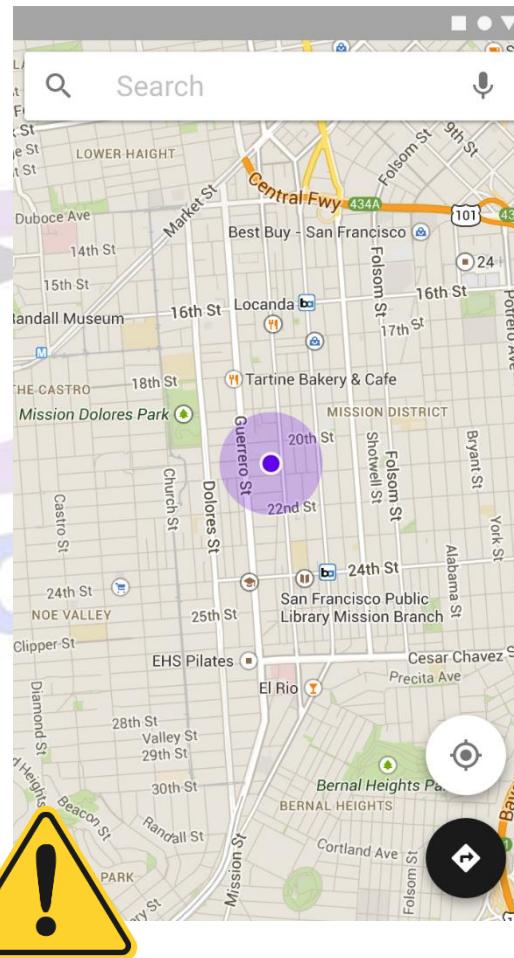
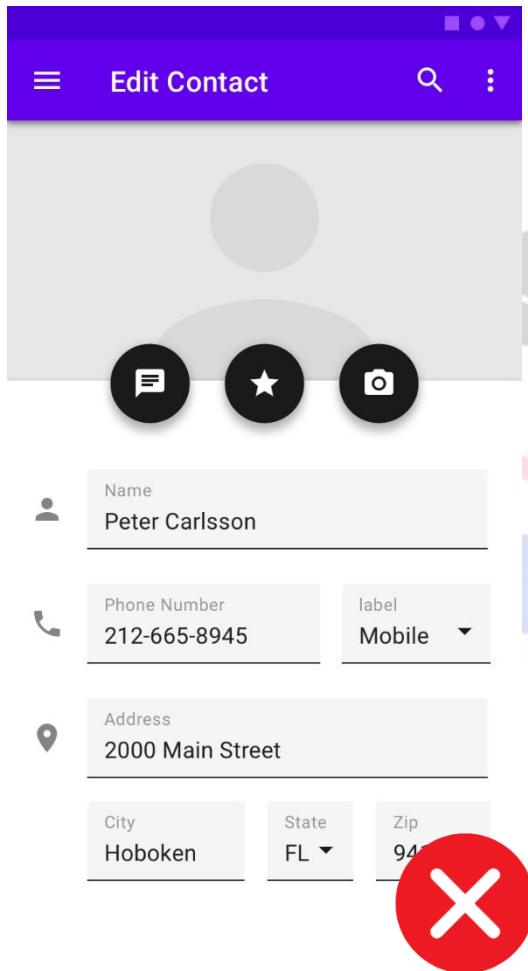
Floating Action Button (FAB)

- Sebuah tombol yang muncul di semua konten layar
- Biasanya berbentuk lingkaran dengan icon di tengah
- Biasanya akan menjalankan aksi yang paling umum dan paling utama
- FAB paling cocok diletakkan di halaman utama (home)
- Tidak semua screen membutuhkan FAB
- Pada Flutter, FAB merupakan salah satu property dari Scaffold

Floating Action Button (FAB)

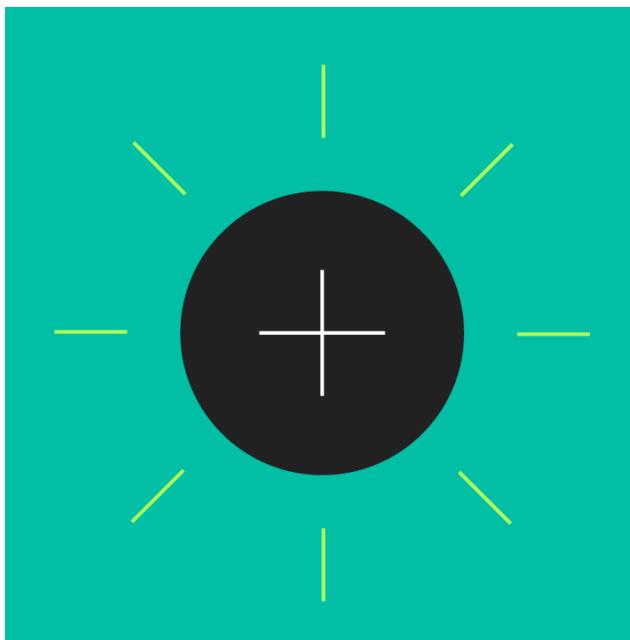


Floating Action Button (FAB)

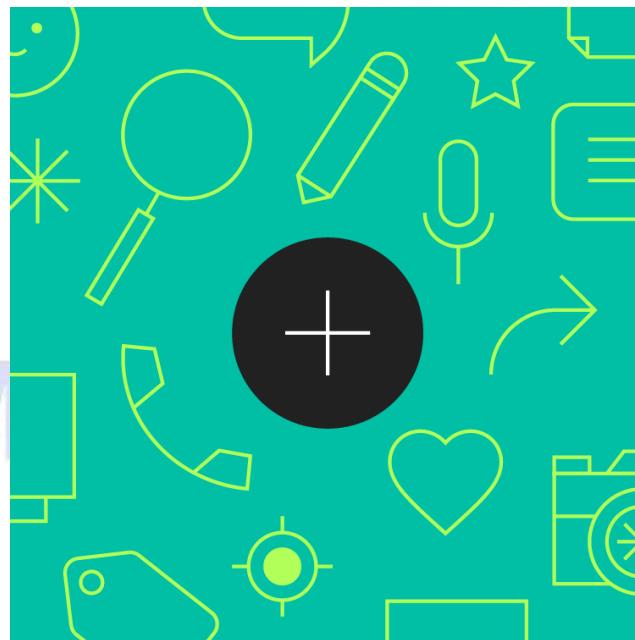


Principle of Floating Action Button

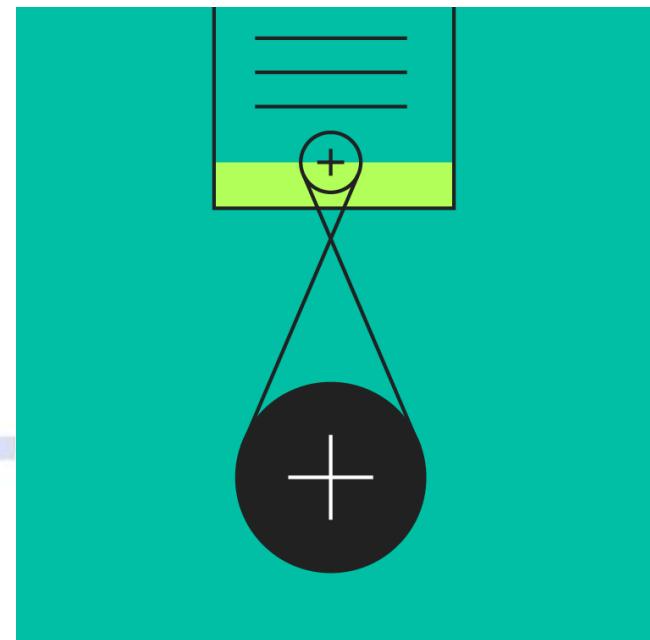
Primary



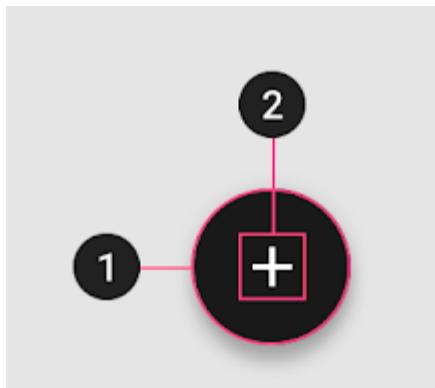
Constructive



Contextual

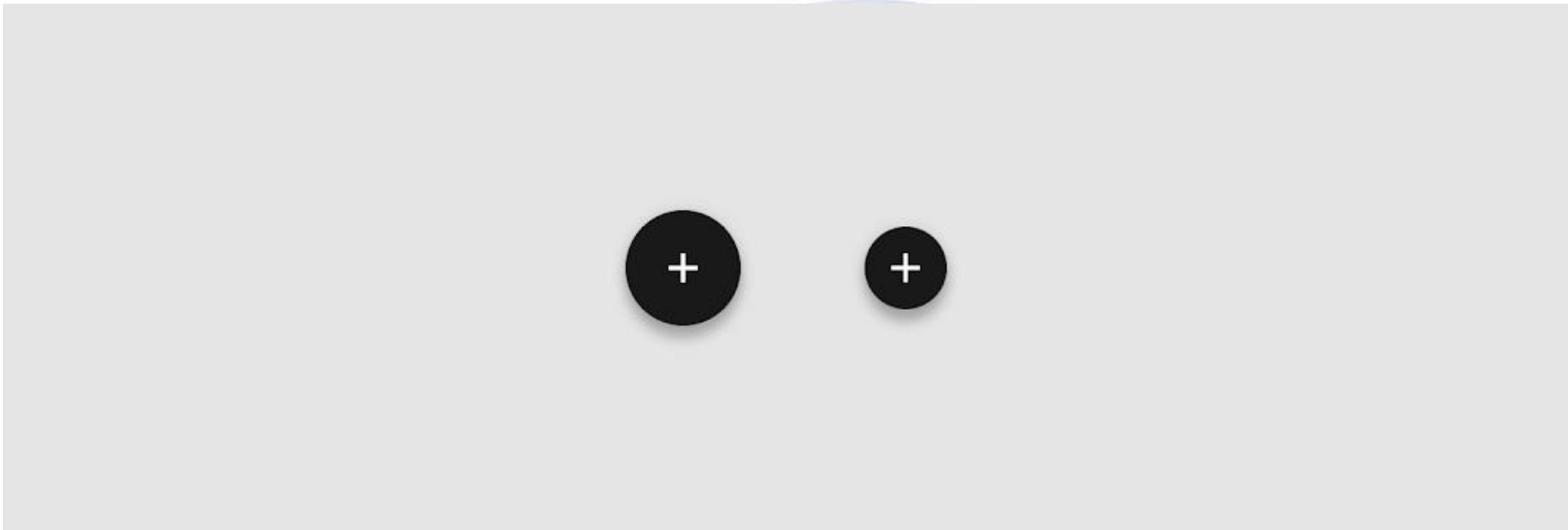


Anatomi



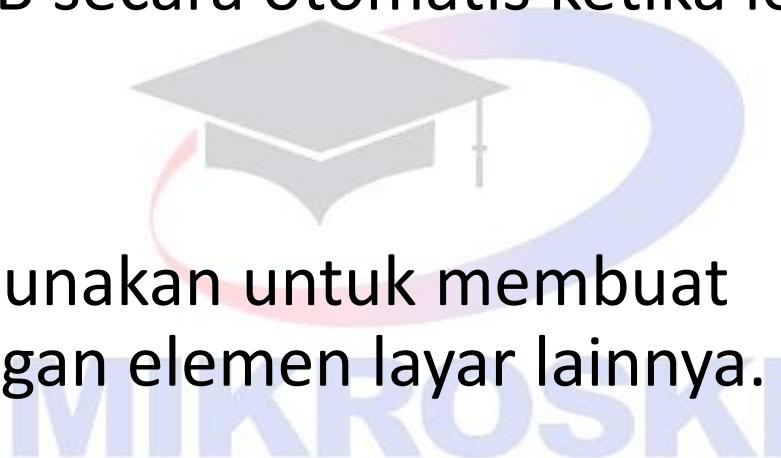
Tipe Ukuran FAB

FAB memiliki 2 jenis ukuran, yaitu default (56 x 56) dan mini (40 x 40)

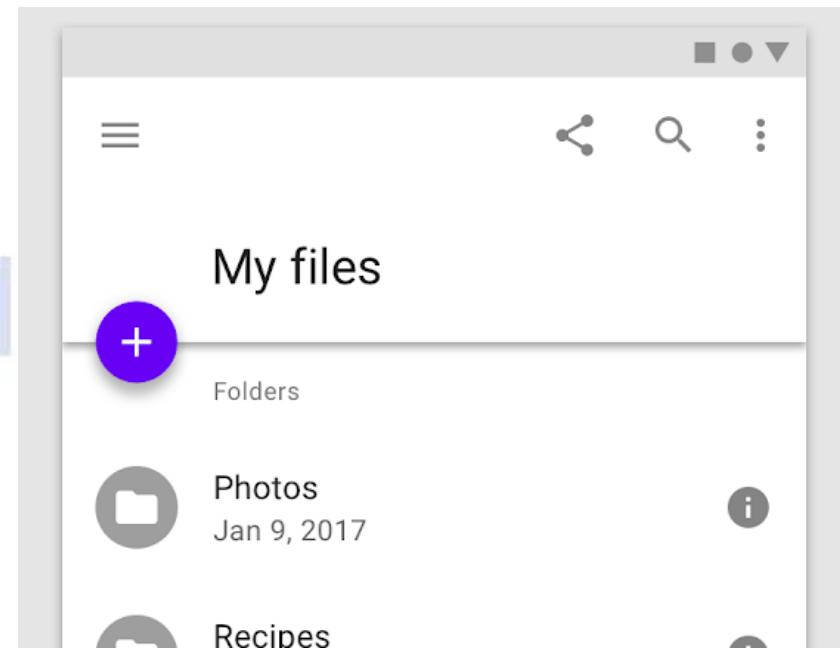


Mini FAB

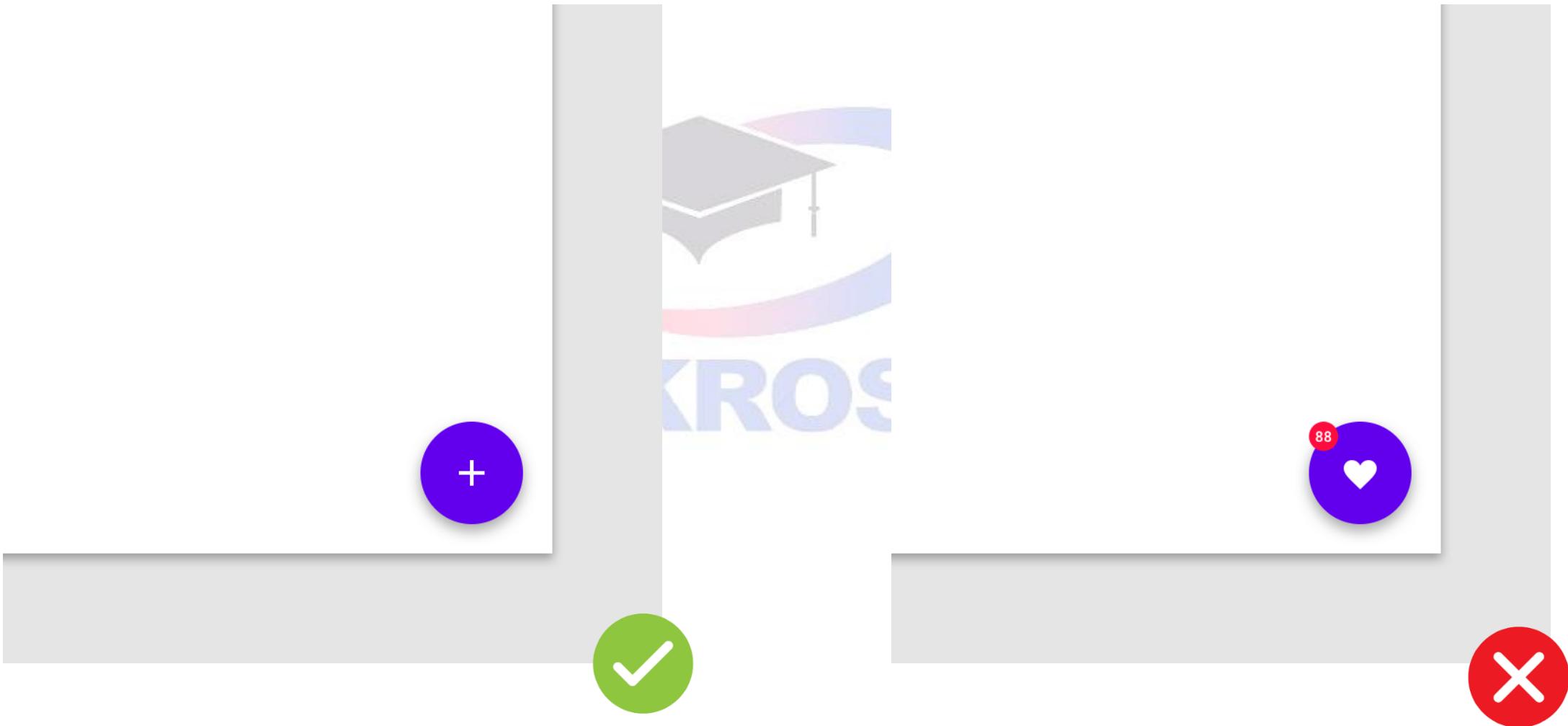
Mini FAB bisa digunakan untuk screen yang kecil. FAB akan menjadi Mini FAB secara otomatis ketika lebar layar 460dp kebawah.



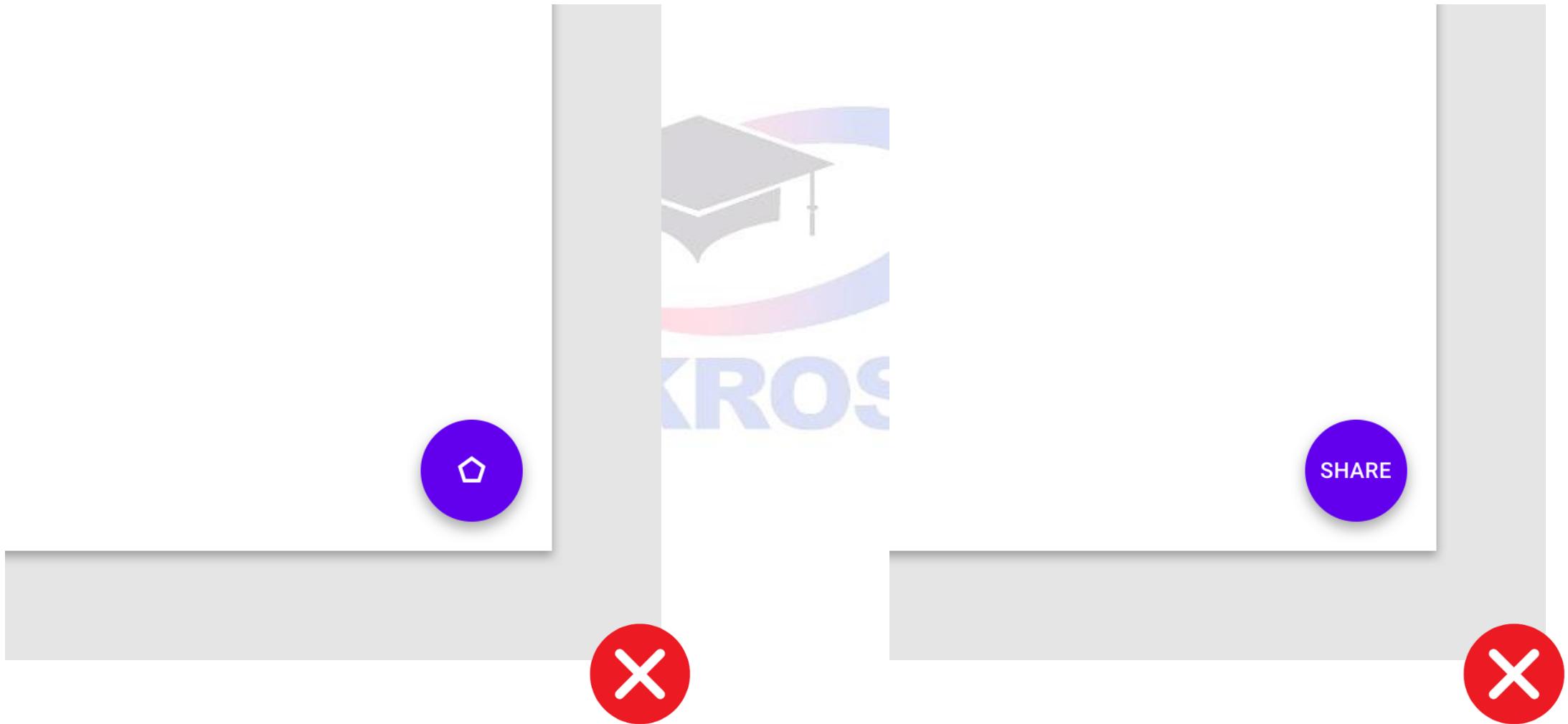
Mini FAB bisa juga digunakan untuk membuat kontinuitas visual dengan elemen layar lainnya.



Mini FAB



Mini FAB (Icon)



Action di FAB

Floating Action Button dapat mentrigger atau menjalankan action pada layar yang sama ataupun menjalankan layar baru.

Aksi yang Diperbolehkan pakai FAB

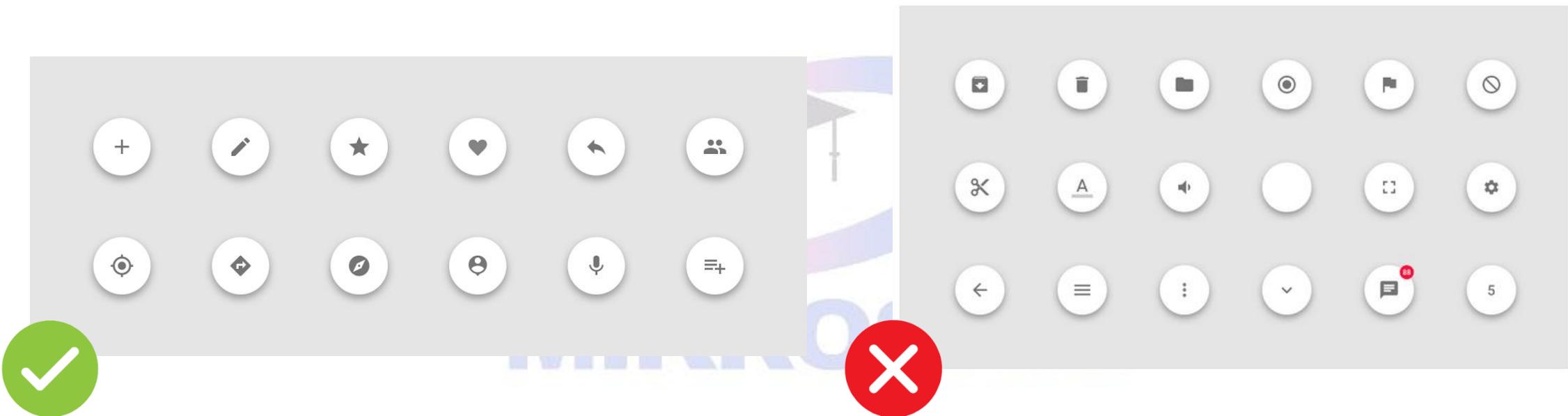
- Create
- Favorite
- Share
- Start Process



Aksi yang Tidak Diperbolehkan pakai FAB

- Archive atau Trash
- Alert atau Errors
- Fungsi yang terbatas, seperti cutting the text
- Controls lebih baik pake toolbar (seperti control volume atau font color)

Action di FAB



Speed Dial

FAB dapat menampilkan 3 hingga 6 action yang terkait dalam bentuk **Speed Dial**.

Ada 2 jenis transisi, yaitu

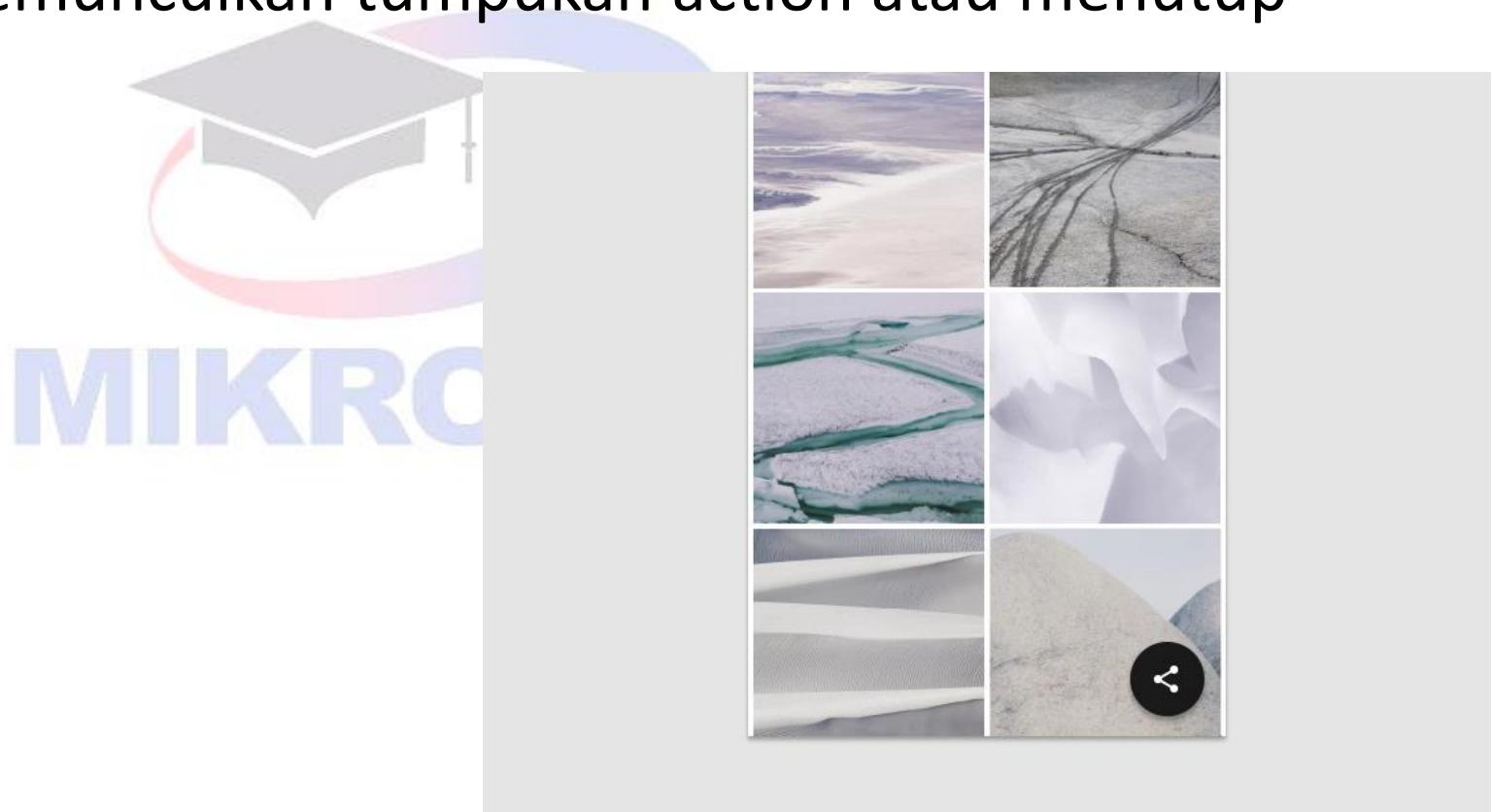
- FAB dapat melakukan emit related actions
- FAB dapat berubah menjadi menu yang berisi aksi yang related (hanya di Android saja)

Jika lebih dari 6 action, pertimbangkan menggunakan opsi lain selain FAB.

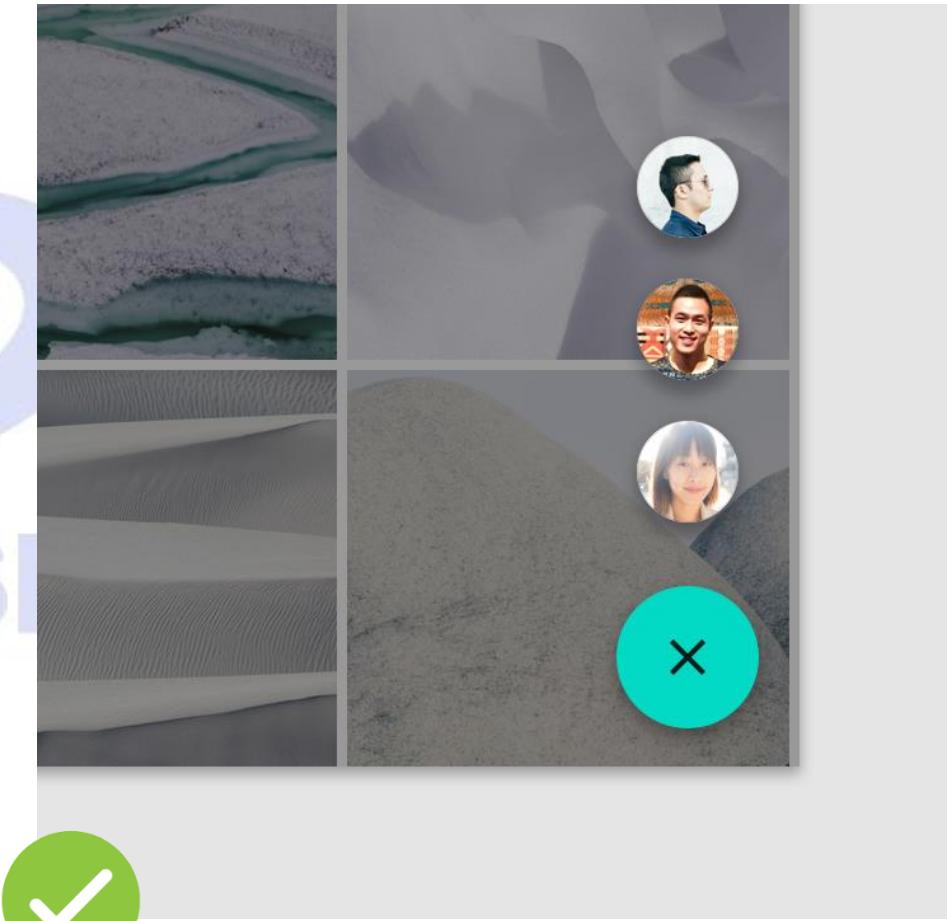
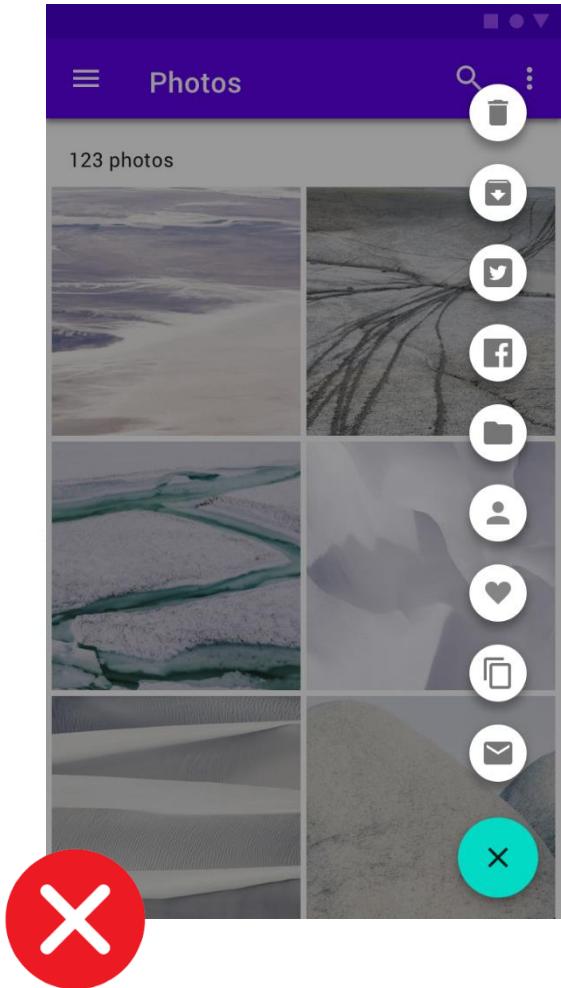
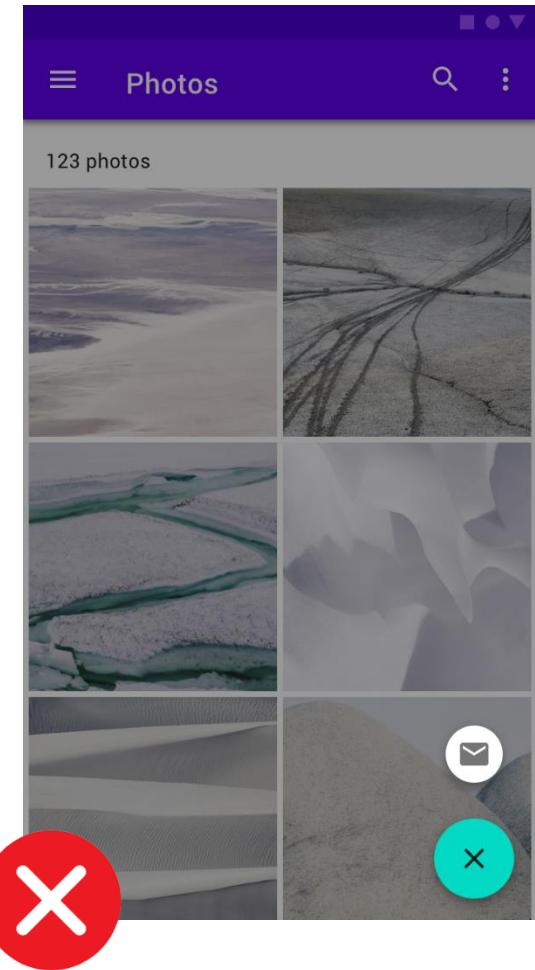
Untuk penerapan di flutter, anda harus menggunakan plugin
flutter_speed_dial

Emit related actions

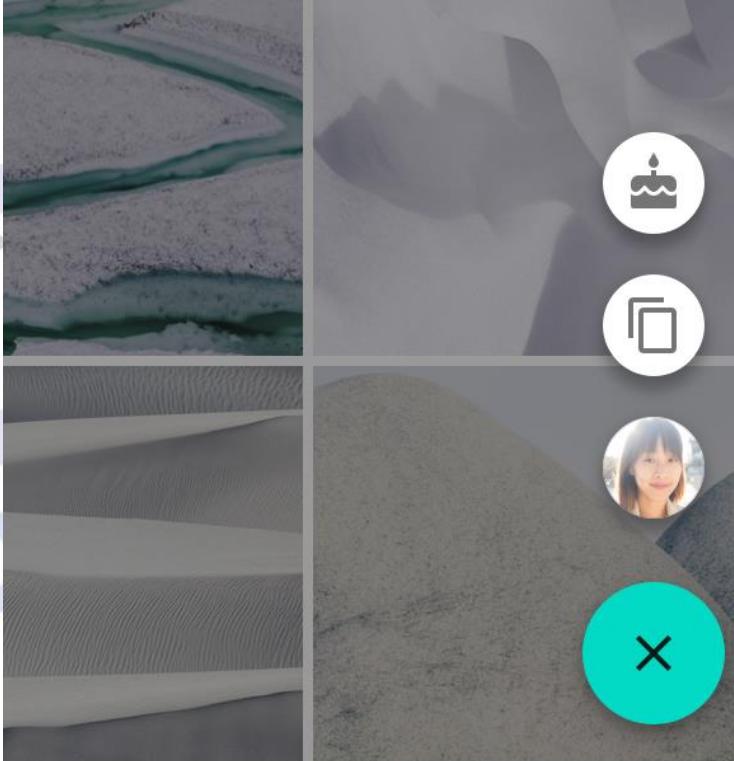
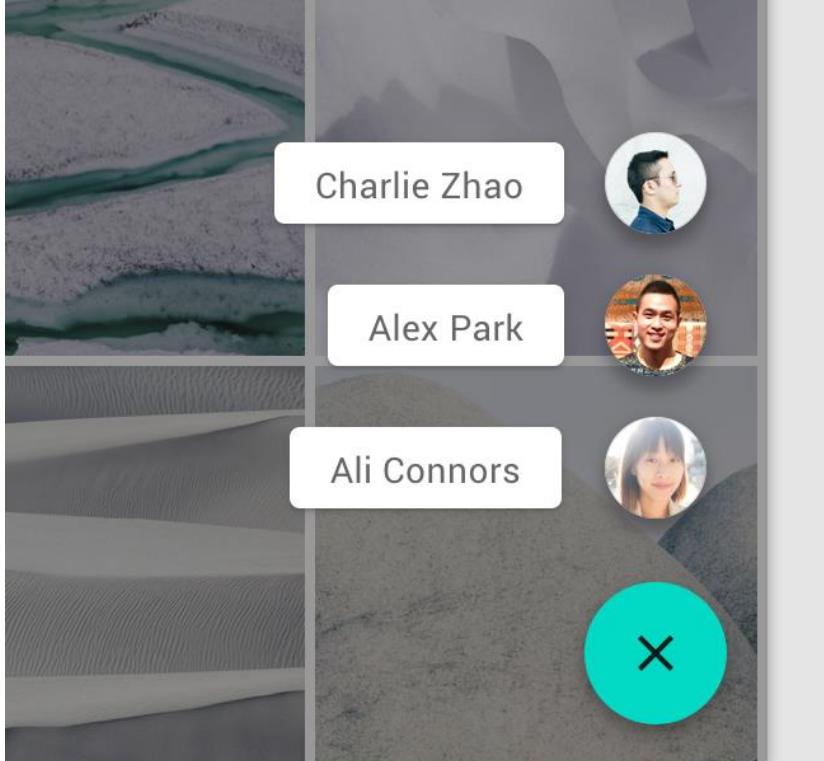
- FAB akan memunculkan tumpukan action yang terkait. Jika FAB ditekan, ia dapat memunculkan tumpukan action atau menutup speed dial.



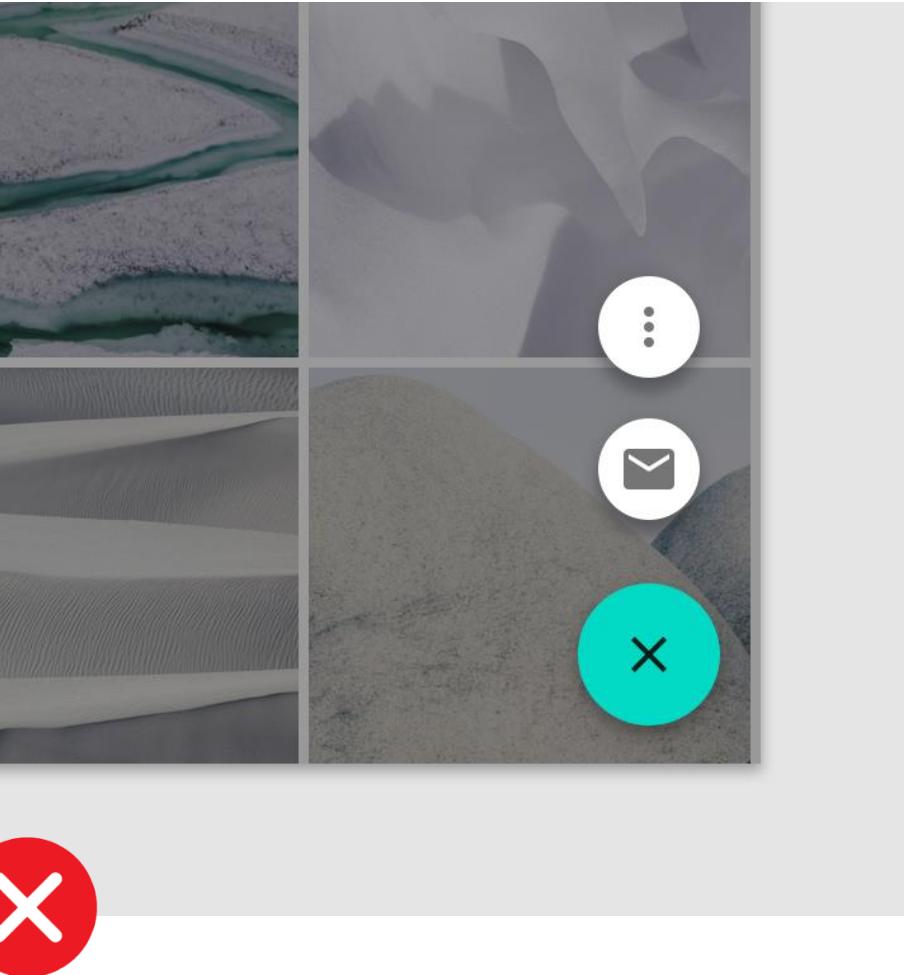
Emit related actions



Emit related actions

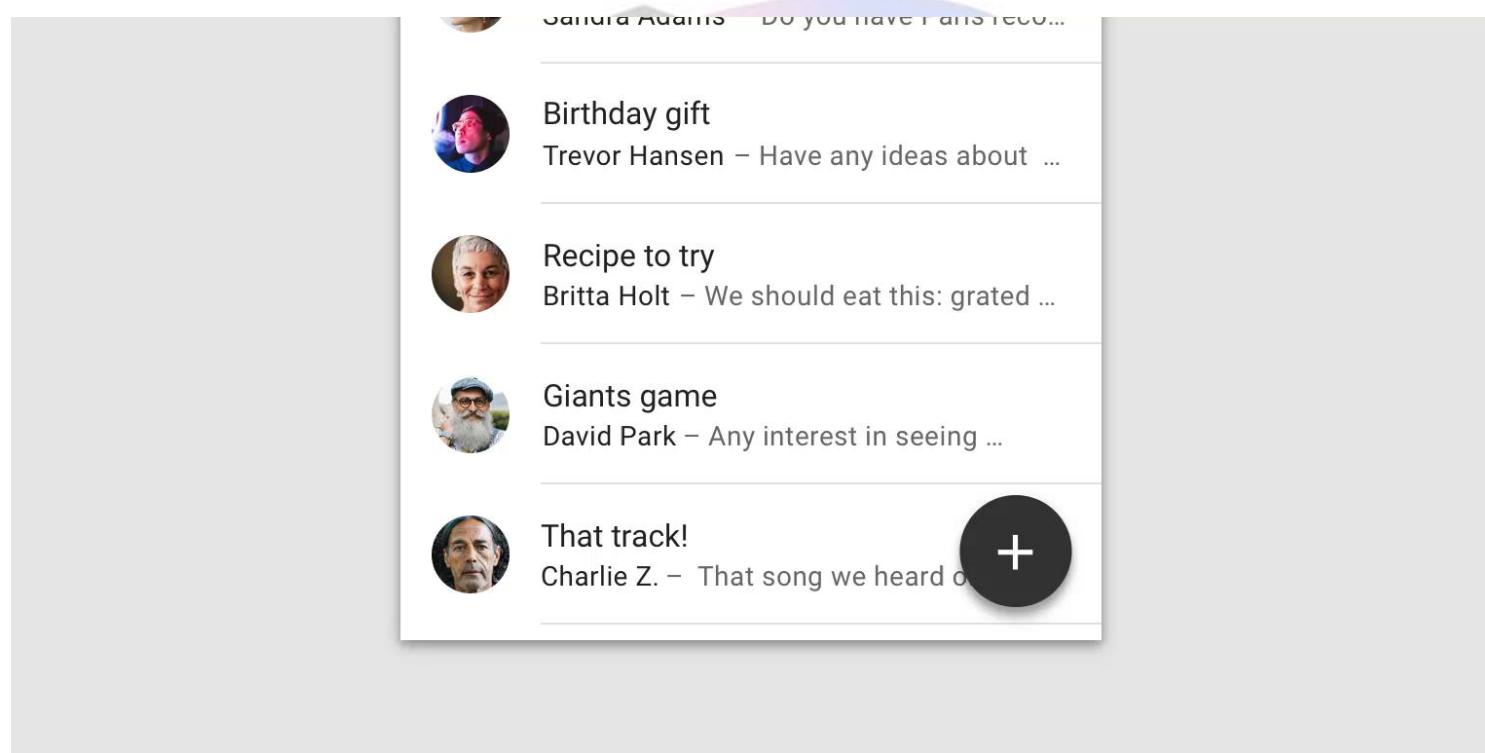


Emit related actions

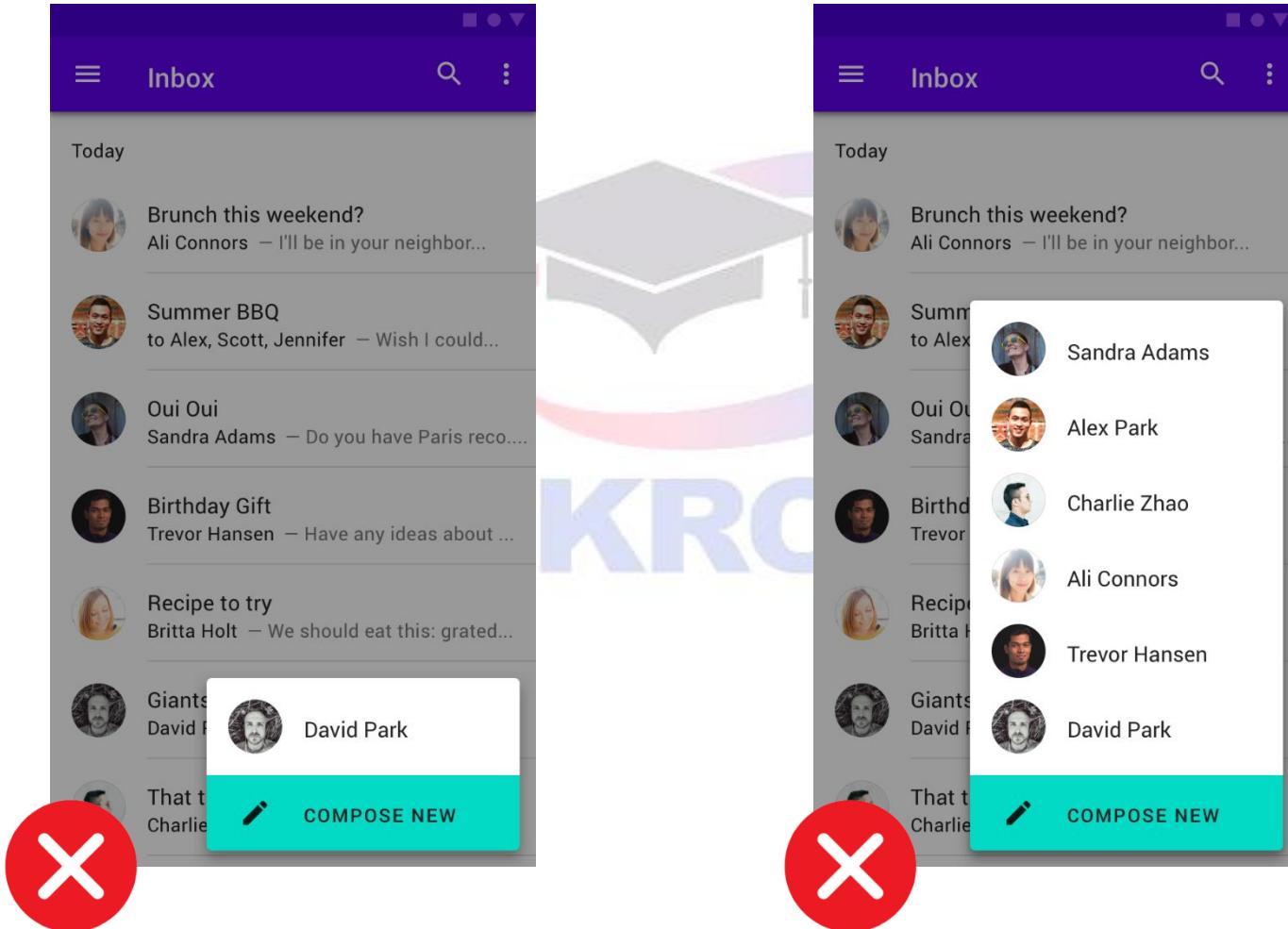


Transform into a menu with the related actions

FAB dapat berubah menjadi menu yang berisi Tindakan terkait

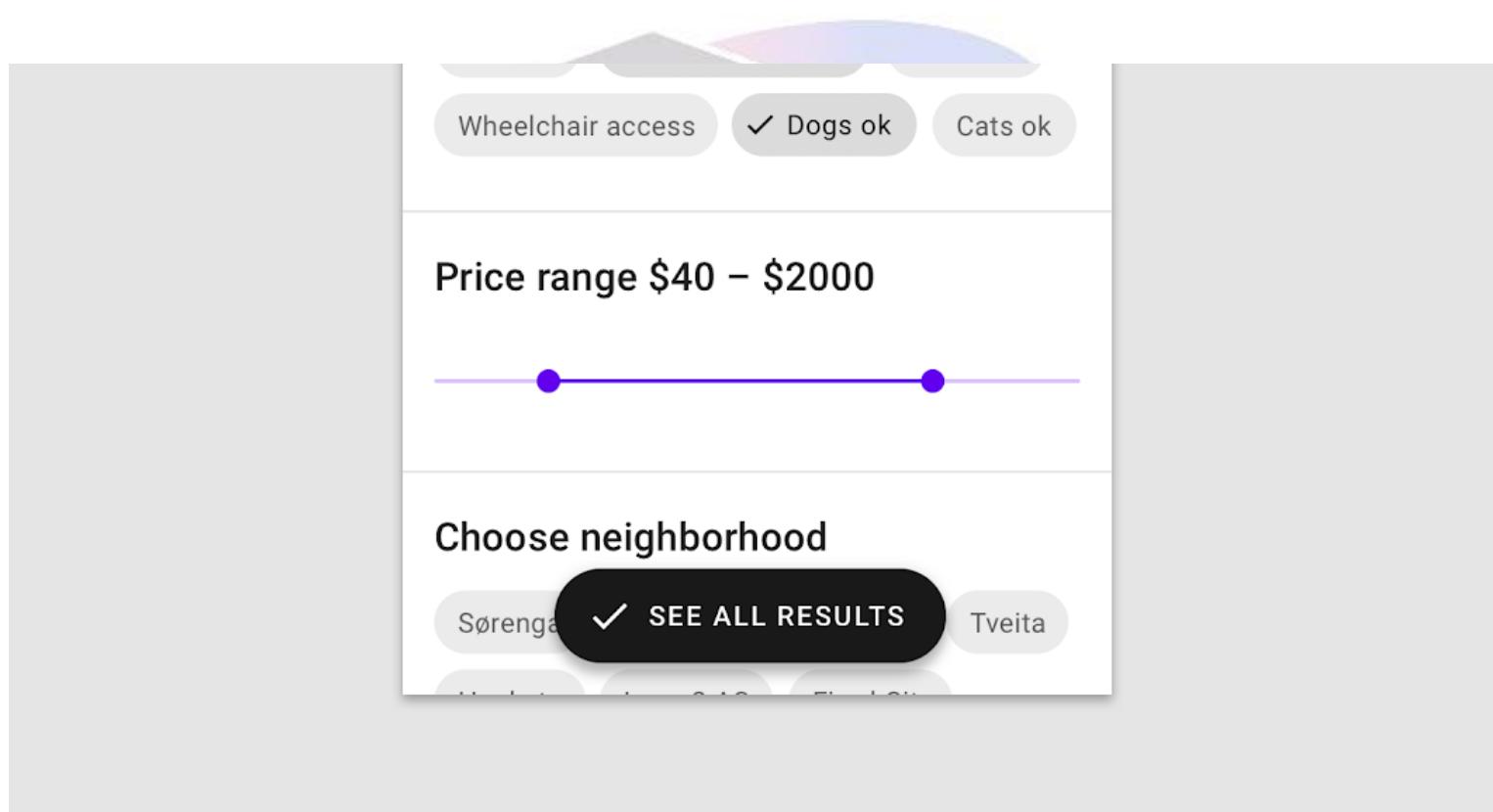


Transform into a menu with the related actions

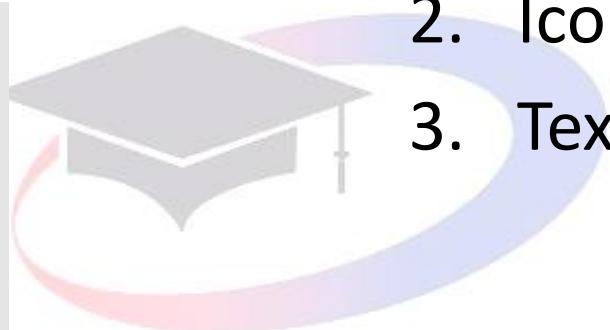
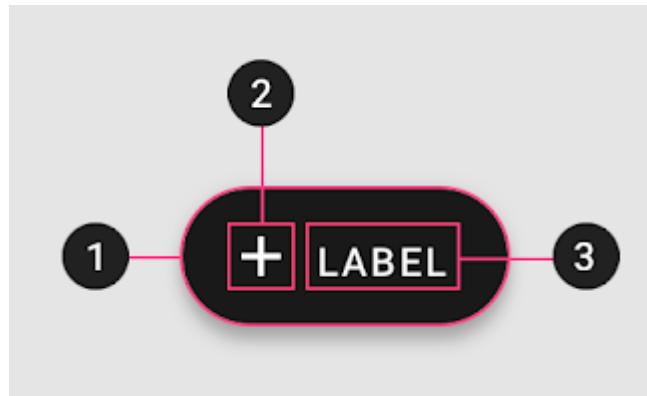


Extended FAB

FAB yang lebih lebar dan terdapat label di dalamnya.



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1. Container
2. Icon (Optional)
3. Text label

Icon

Icon harusnya intuitif dan merepresentasikan aksinya

Peter Carlsson

Phone Number
(212) 665-8945

Label
Mobile ▾

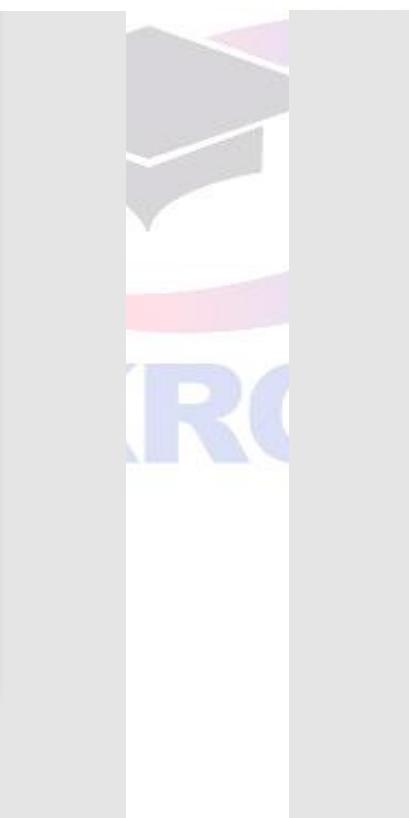
Address
2000 Main Street

City
Hoboken

State

Zip

SAVE CHANGES



علي كوز

Phone Number
(212) 665-8945

Label
الجوّ ▾

Address
العنوا

Zip

State

City
هوبوك

صرفه جويى

Icon

Birthday Gift

Trevor Hansen — Have any ideas about ...

Recipe to try

Britta Holt — We should eat this: grated...

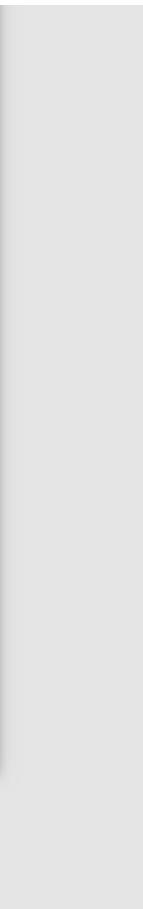
Giants game

David Park — Any interest in seeing...

That track!

Charlie Z. — That song we

CREATE



Birthday Gift

Trevor Hansen — Have any ideas about ...

Recipe to try

Britta Holt — We should eat this: grated...

Giants game

David Park — Any interest in seeing...

That track!

Charlie Z. — That song we

+



Text Label

Label harus menjelaskan aksi yang terjadi

Birthday Gift

Trevor Hansen — Have any ideas about ...

Recipe to try

Britta Holt — We should eat this: grated...

Giants game

David Park — Any interest in seeing...

That track!

Charlie Z.

+ COMPOSE A NEW...



Birthday Gift

Trevor Hansen — Have any ideas about ...

Recipe to try

Britta Holt — We should eat this: grated...

Giants game

David Park — Any interest in seeing...

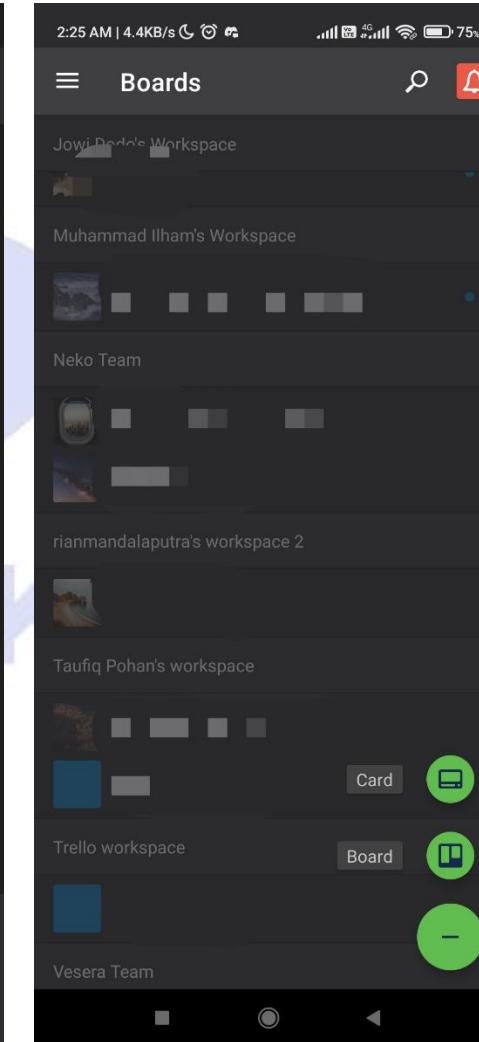
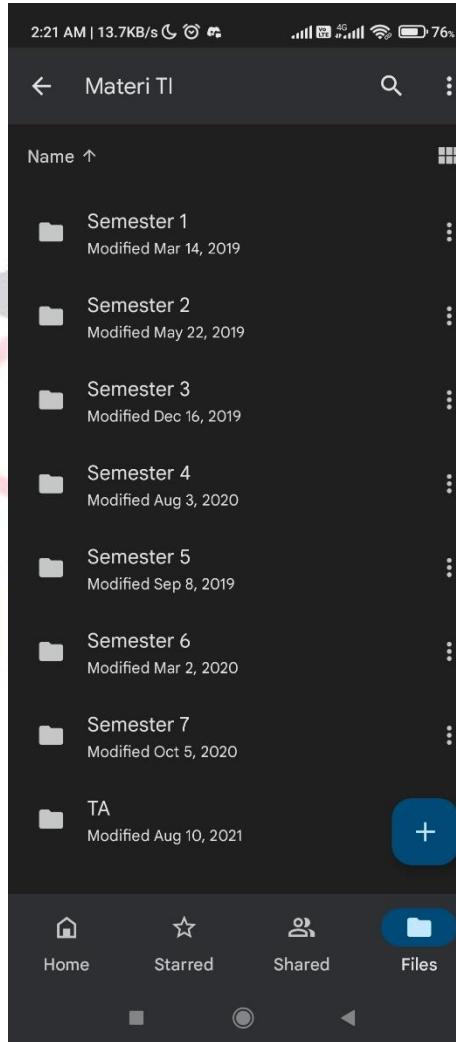
That track!

Charlie Z. — The...

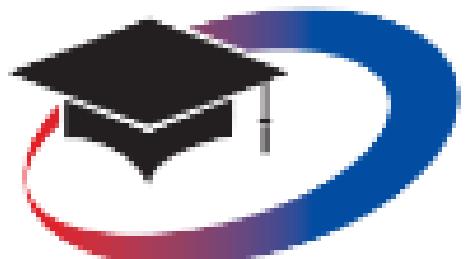
+ COMPOSE A
NEW MESSAGE



Contoh Implementasi FAB



Penerapan di Flutter

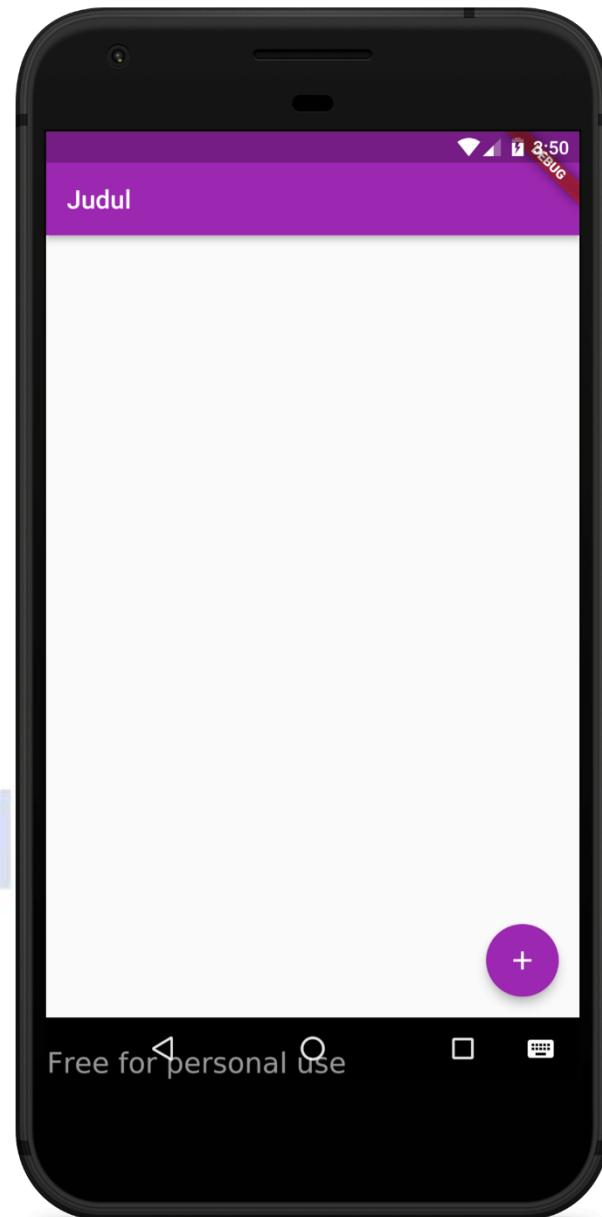


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FAB di Flutter

```
  Scaffold(  
    ...  
    floatingActionButton: FloatingActionButton(  
      child: const Icon(Icons.add)  
    )  
  )
```



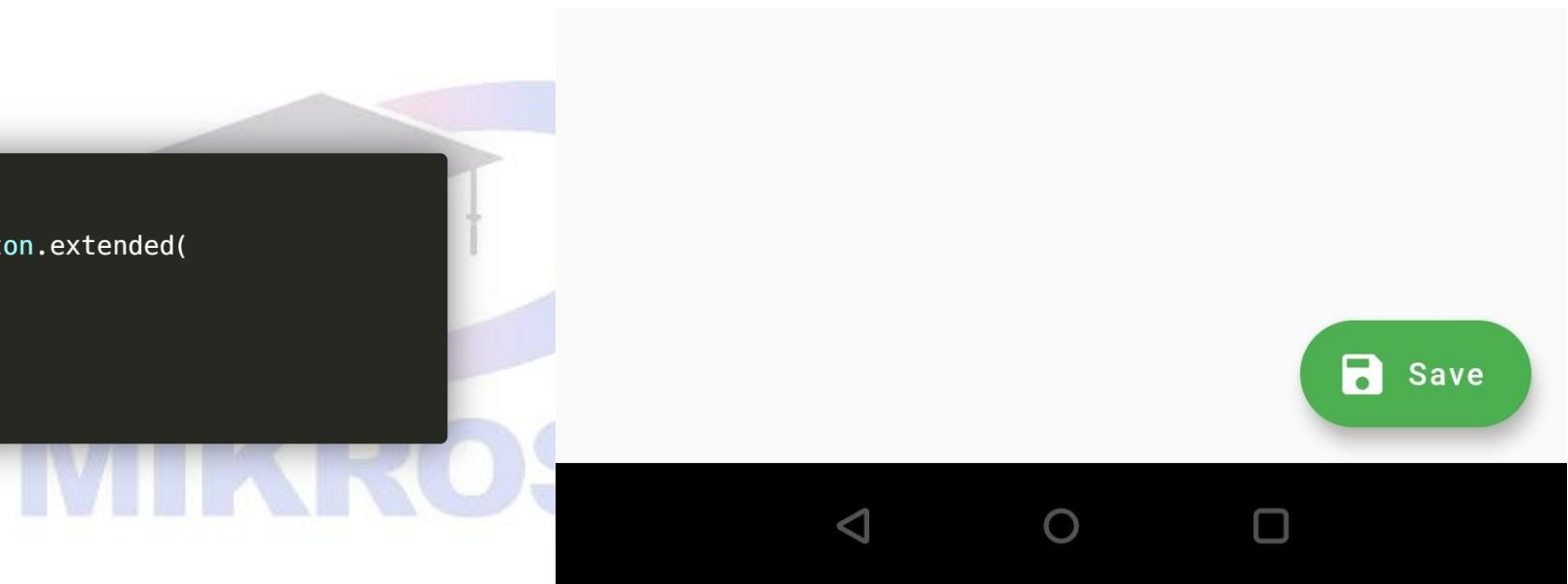
Property pada FAB

Property	Class/Data Type	Tujuan
key	Key	Menaruh Id unik untuk widget tersebut
shape	ShapeBorder	Mengatur bentuk dari FAB
autofocus	boolean	Set Button menjadi fokus awal pada aplikasi. (Default: False)
mini	Boolean	Set FAB menjadi Mini FAB
child	Widget	Set widget didalam FAB
onPressed	VoidCallback	Callback dijalankan Ketika button di tap/click
backgroundColor	Color	Set background color pada FAB
position		

Mau lebih detail? Klik [disini](#) dan [di sini](#)

FloatingActionButton.extended

```
floatingActionButton: FloatingActionButton.extended(  
    icon: Icon(Icons.save),  
    label: Text("Save"),  
    backgroundColor: Colors.green,  
    foregroundColor: Colors.white,  
,
```



FloatingActionButton Position

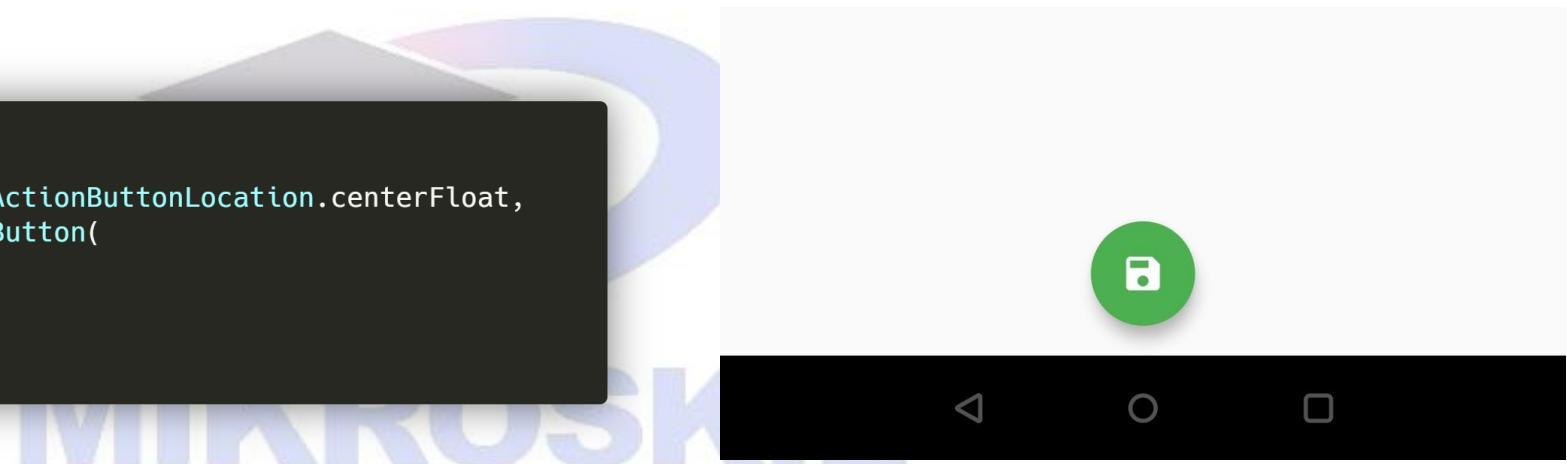
Constants
FloatingActionButtonLocation.startDocked
FloatingActionButtonLocation.startFloat
FloatingActionButtonLocation.startTop
FloatingActionButtonLocation.centerDocked
FloatingActionButtonLocation.centerFloat
FloatingActionButtonLocation.centerTop
FloatingActionButtonLocation.endDocked
FloatingActionButtonLocation.endFloat
FloatingActionButtonLocation.endTop



Constants
FloatingActionButtonLocation.miniStartDocked
FloatingActionButtonLocation.miniStartFloat
FloatingActionButtonLocation.miniStartTop
FloatingActionButtonLocation.miniCenterDocked
FloatingActionButtonLocation.miniCenterFloat
FloatingActionButtonLocation.miniCenterTop
FloatingActionButtonLocation.miniEndDocked
FloatingActionButtonLocation.miniEndFloat
FloatingActionButtonLocation.miniEndTop

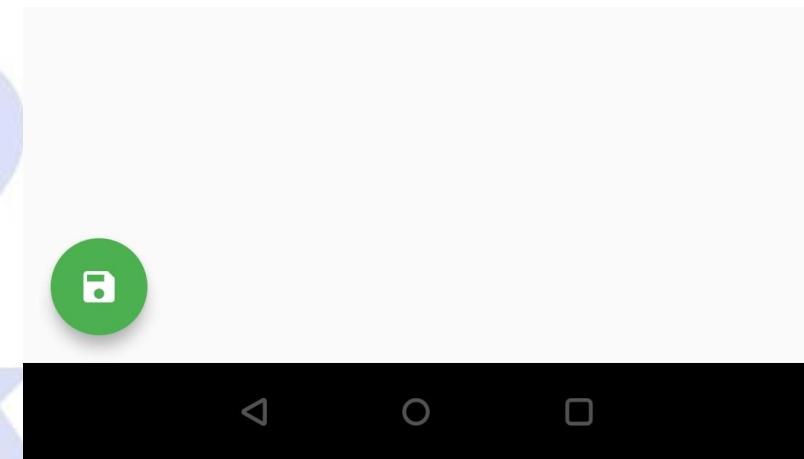
FloatingActionButton Position

```
floatingActionButtonLocation: FloatingActionButtonLocation.centerFloat,  
floatingActionButton: FloatingActionButton(  
    child: Icon(Icons.save),  
    backgroundColor: Colors.green,  
    foregroundColor: Colors.white,  
,
```

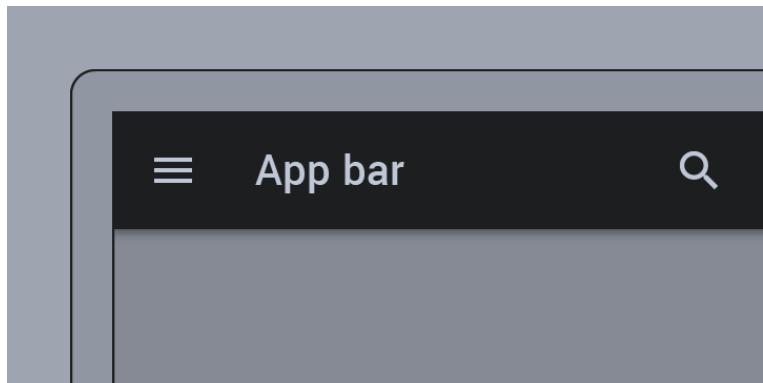


FloatingActionButton Position

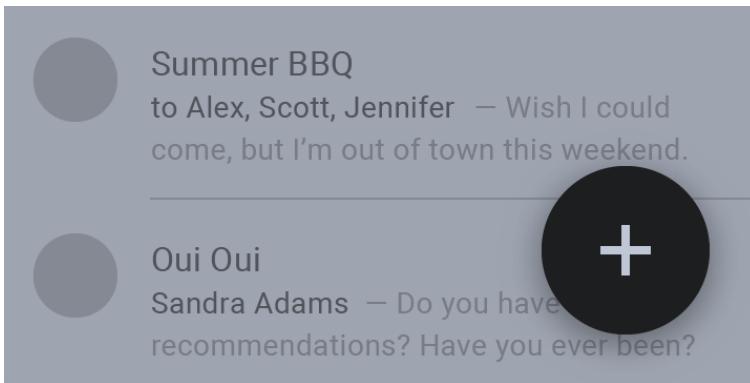
```
floatingActionButtonLocation: FloatingActionButtonLocation.startFloat,  
floatingActionButton: FloatingActionButton(  
    child: Icon(Icons.save),  
    backgroundColor: Colors.green,  
    foregroundColor: Colors.white,  
,
```



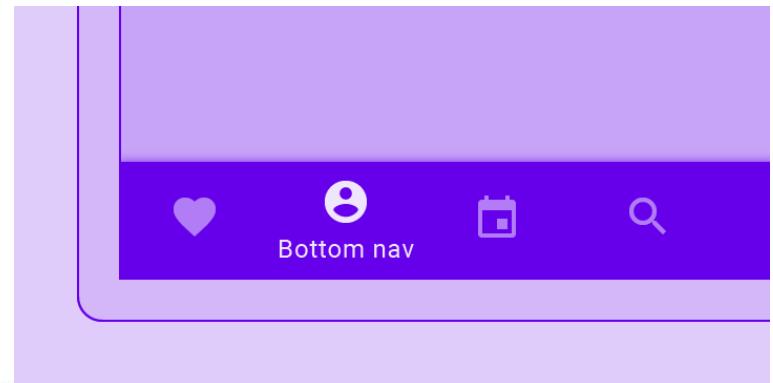
Komponen dalam Mendesain Aplikasi Part. 5



App Bar

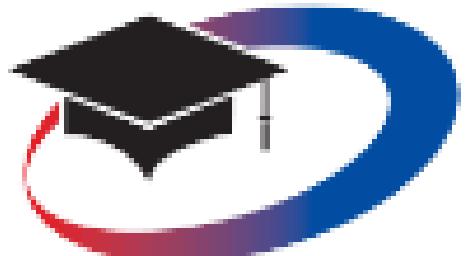


Floating Action Button



Bottom Navigation

Buttom Navigation

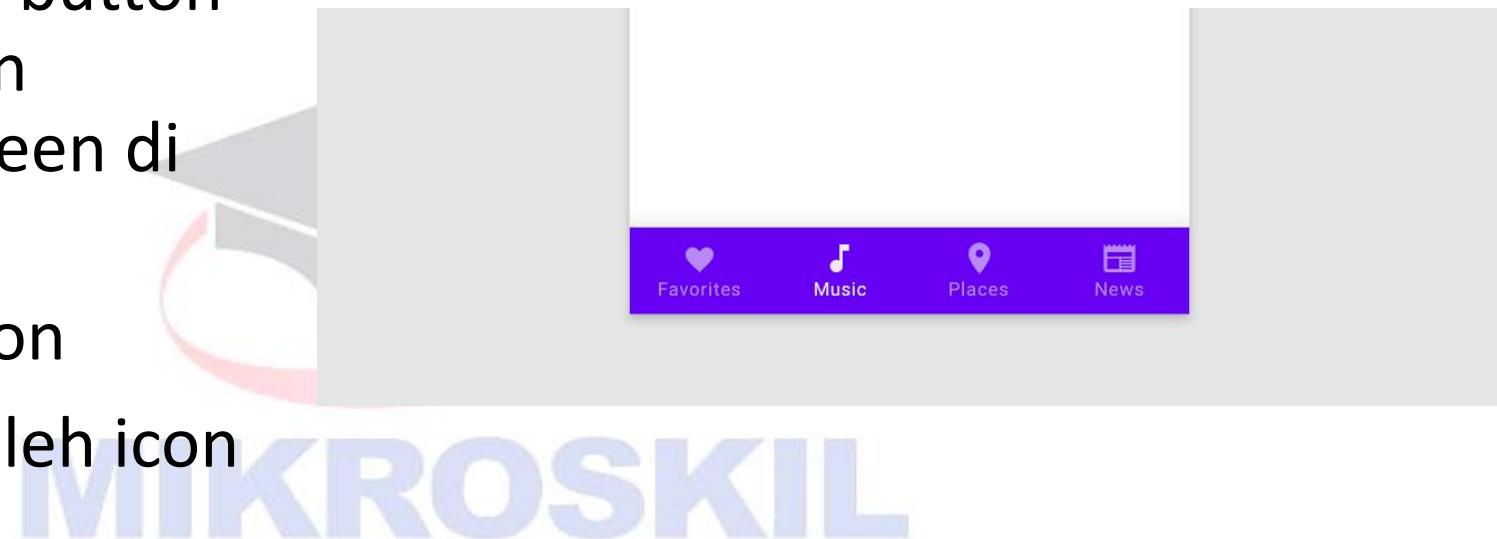


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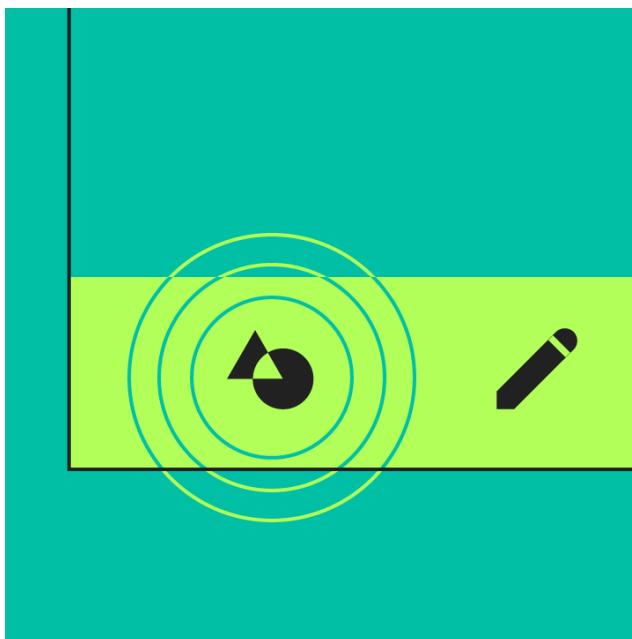
Buttom Navigation adalah...

- Kumpulan opsi atau button yang memungkinkan berpindah antar screen di app.
- Terdiri 3-5 destination
- Direpresentasikan oleh icon atau icon + text

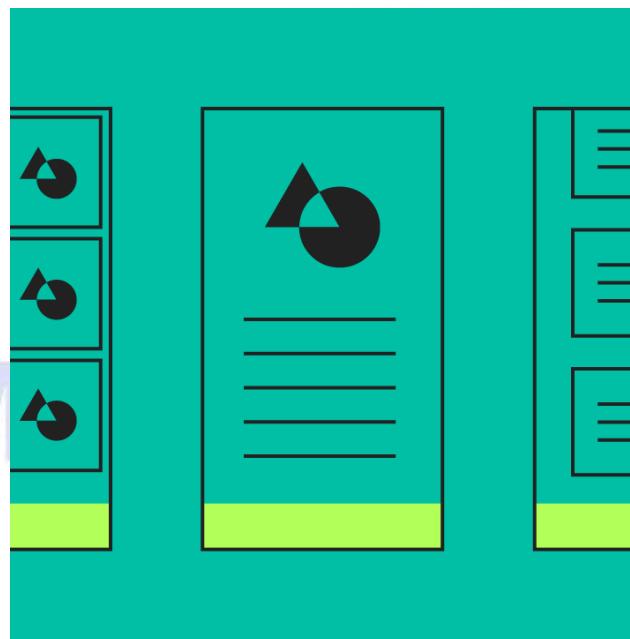


Principle of Bottom Navigation

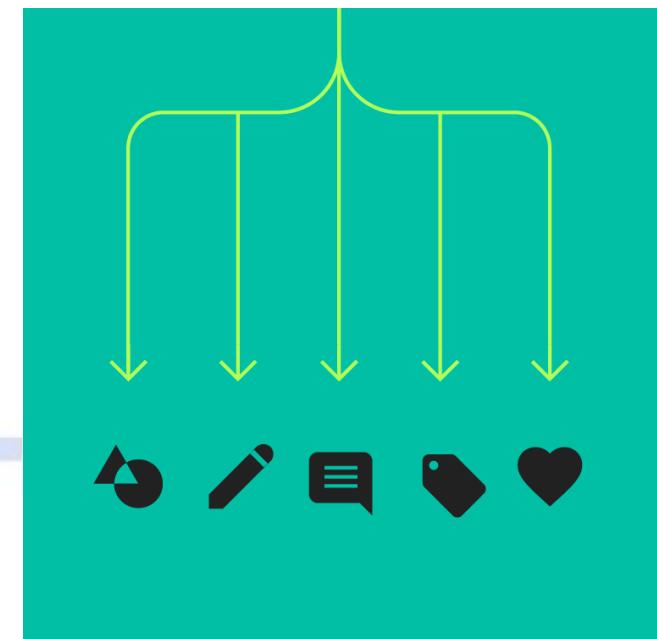
Ergonomic



Consistent



Related

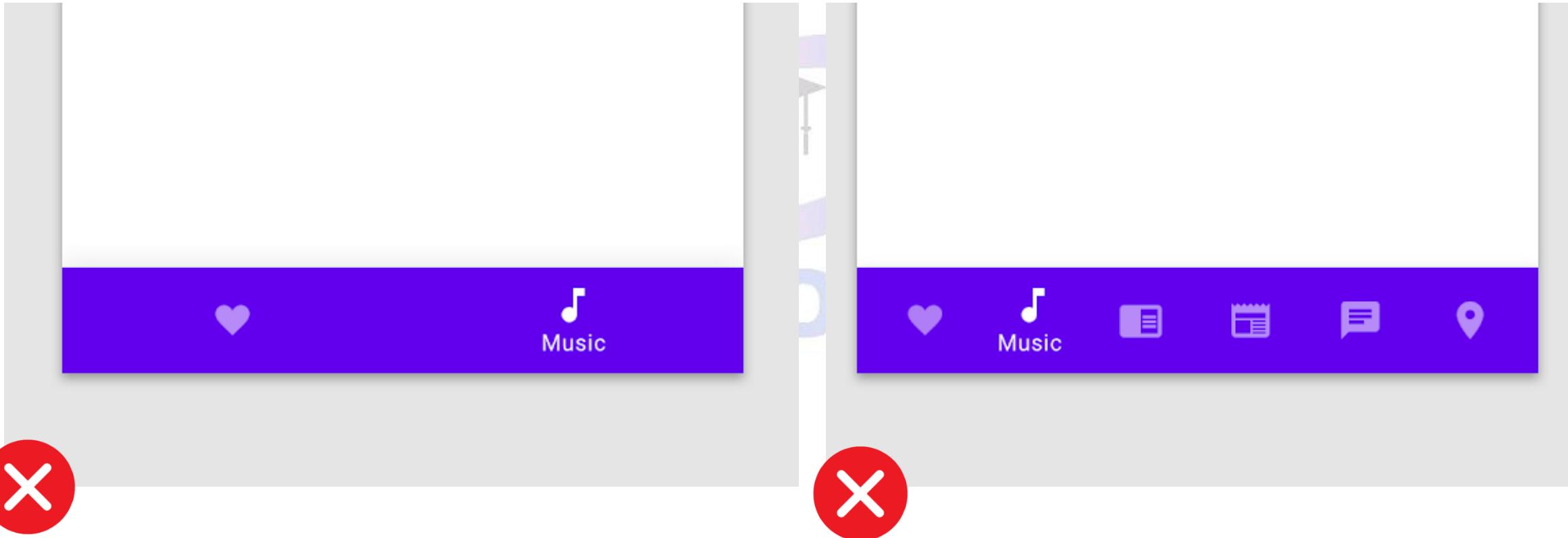


Kapan tidak membutuhkan Bottom Navigation

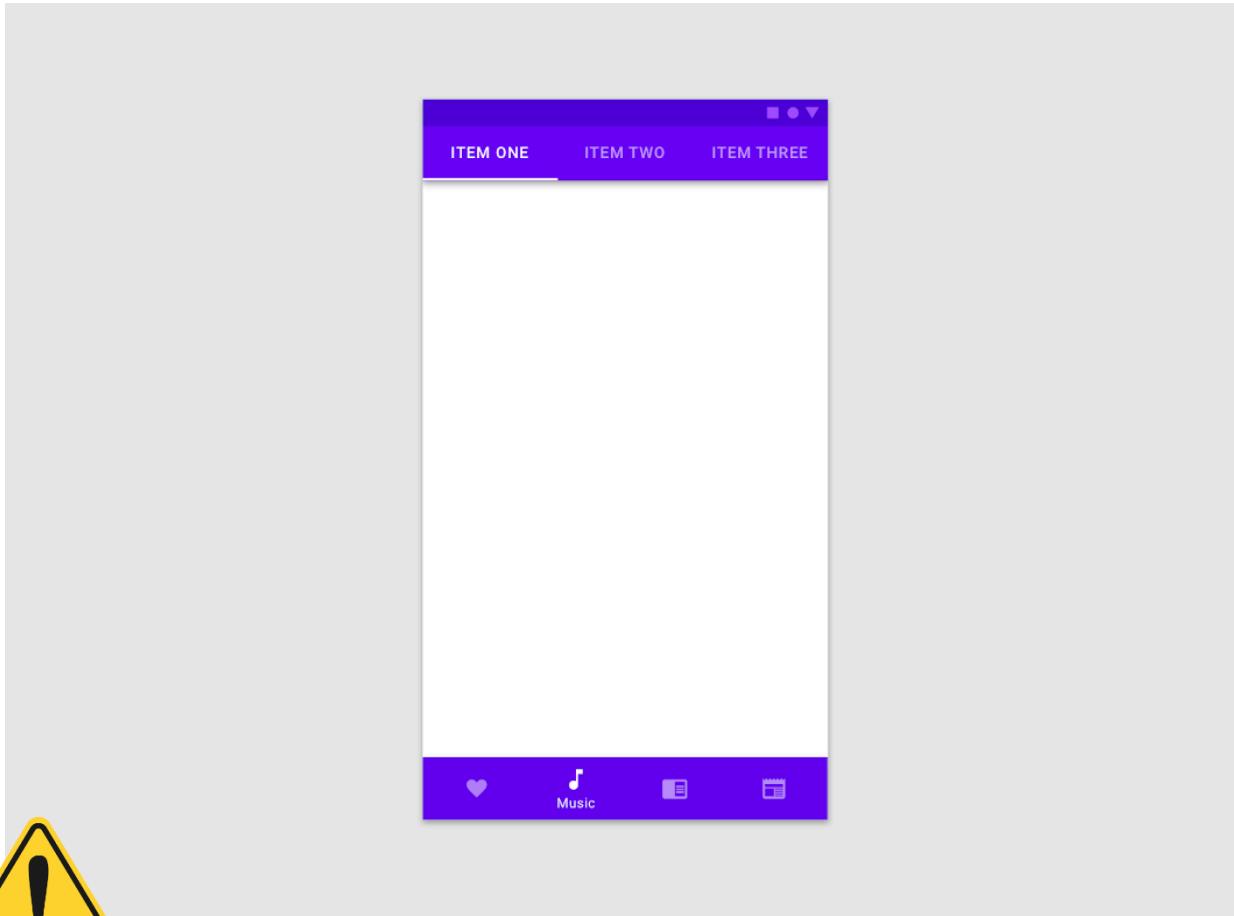
- Single task seperti melihat email
- Pengaturan user atau setting



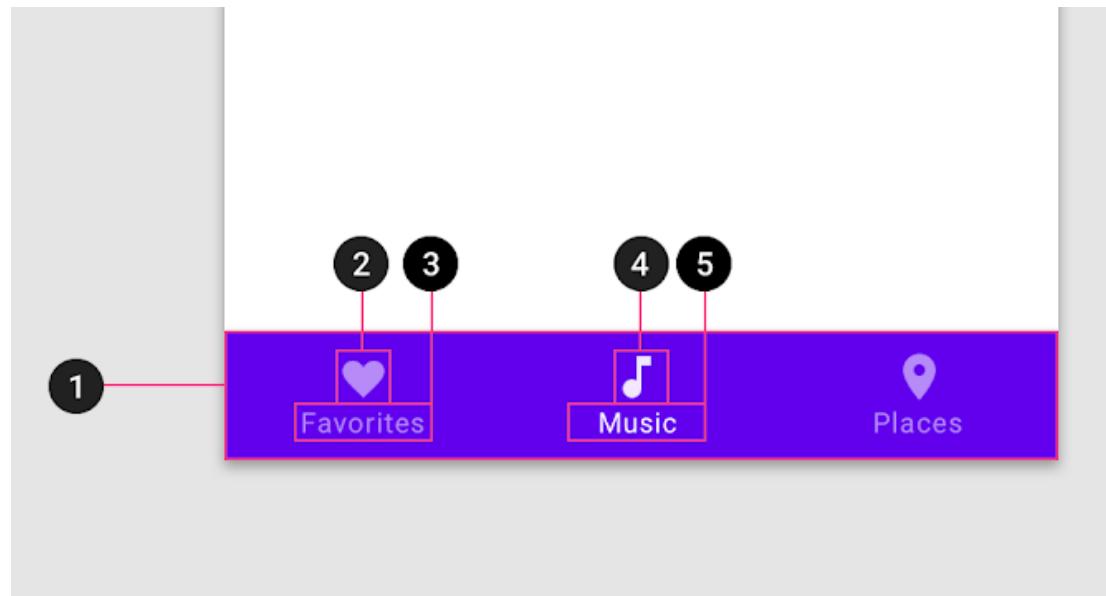
Bottom Navigation



Bottom Navigation



Anatomi



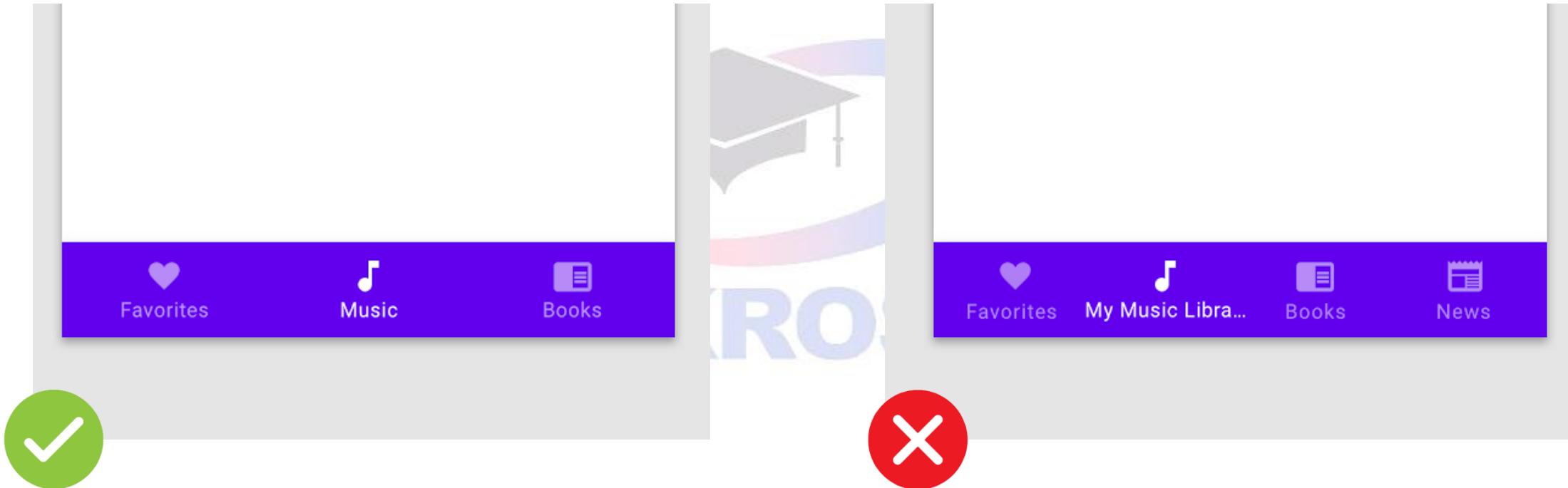
1. Container
2. Inactive Icon
3. Inactive Text label
4. Active Icon
5. Active Text label

Representing Destination

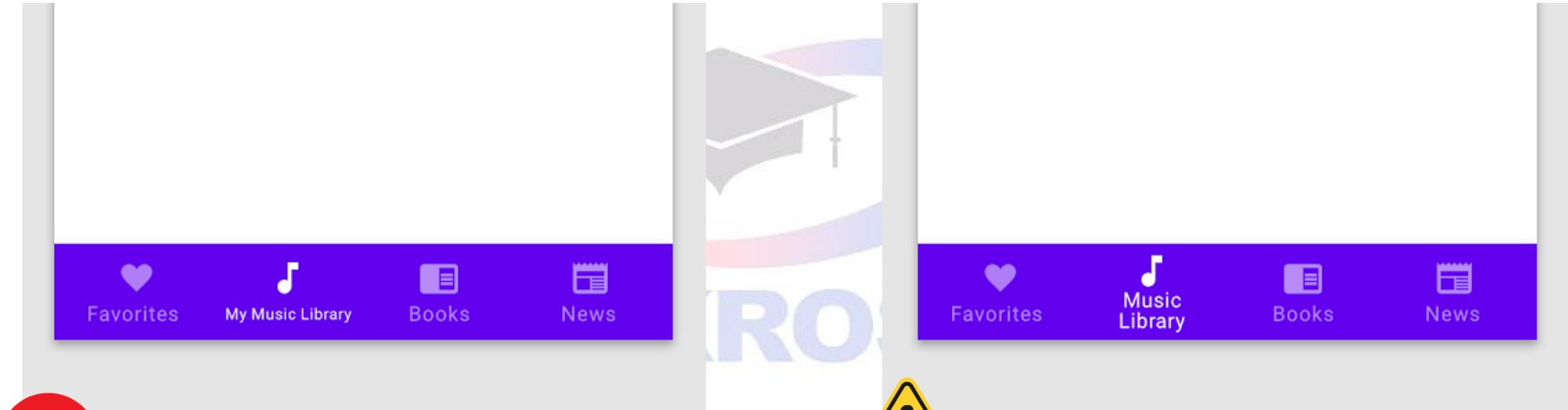
- **3 Destinasi (opsi)** : Tampilkan icon dan text untuk semua destinasi
- **4 Destinasi** : Destinasi aktif tampilkan icon dan text, sisanya disarankan tampilkan icon dan text-nya
- **5 Destinasi** : Destinasi aktif tampilkan icon dan text, sisanya tampilkan icon-nya, dan jika memungkinkan tampilkan text-nya

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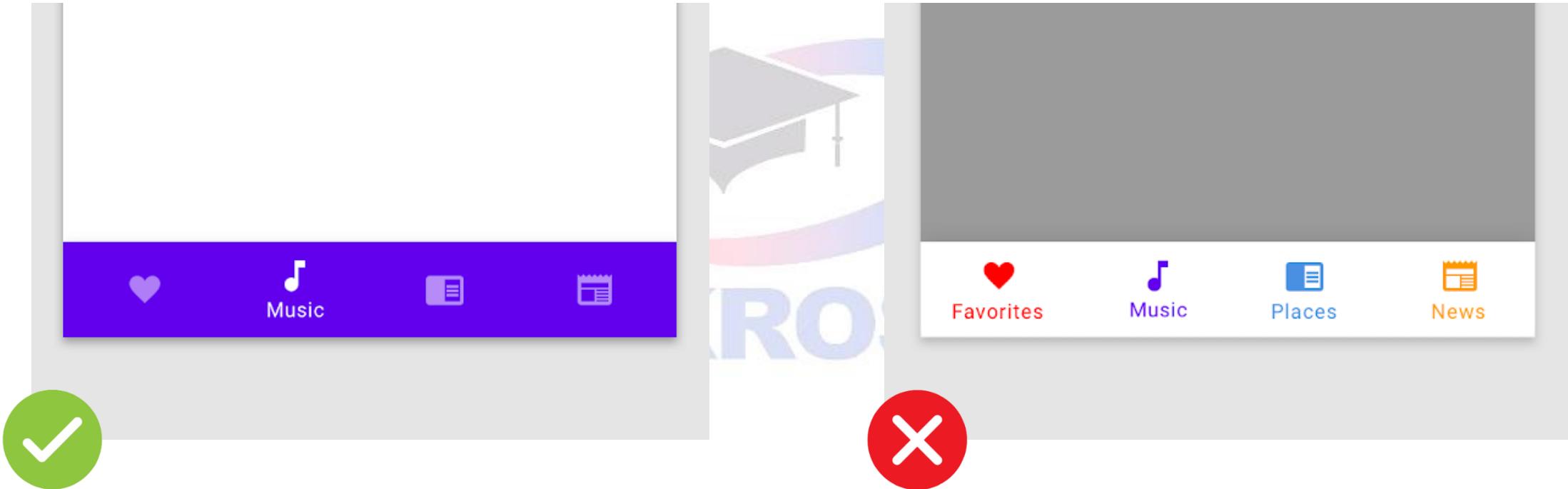
Text Label



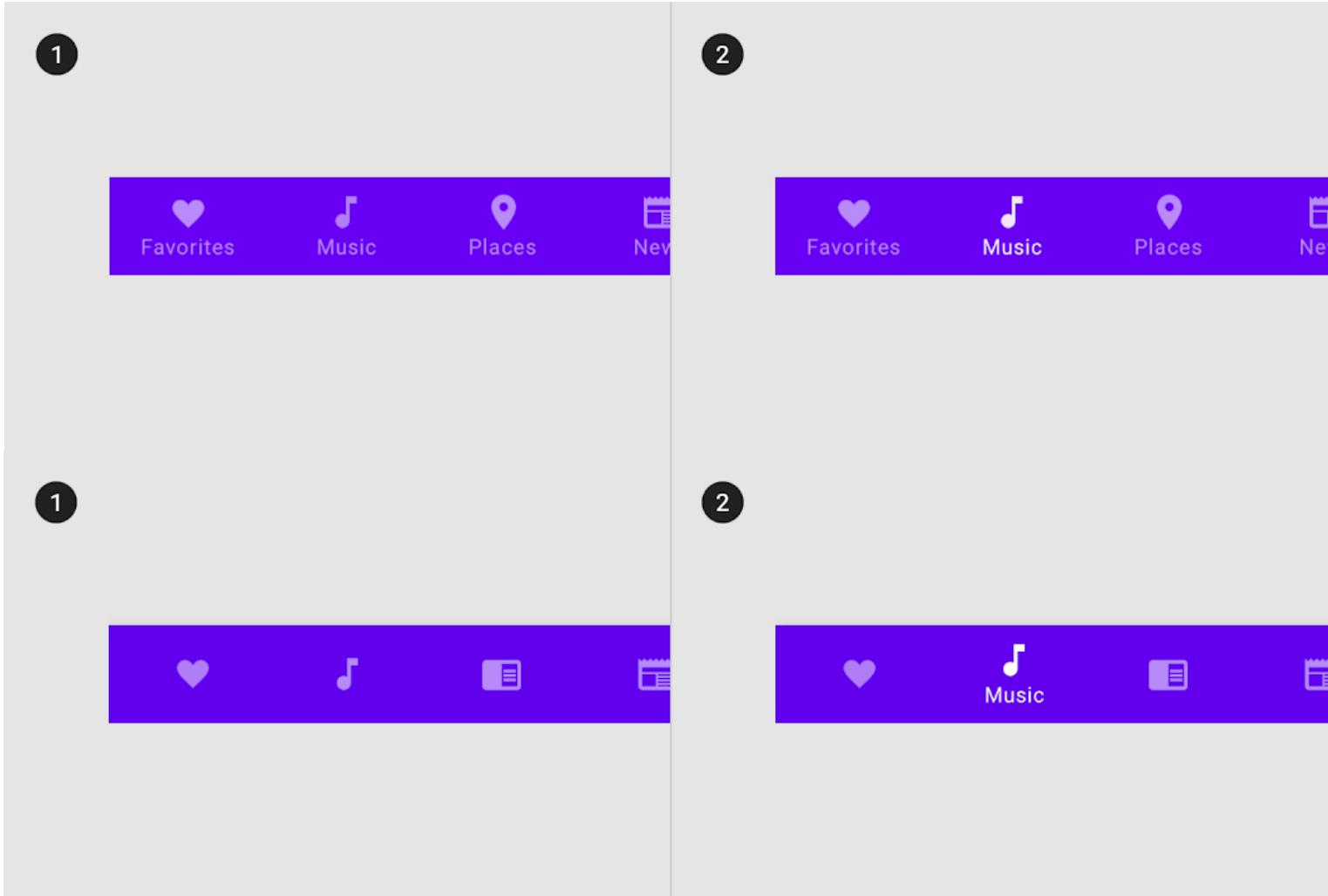
Text Label



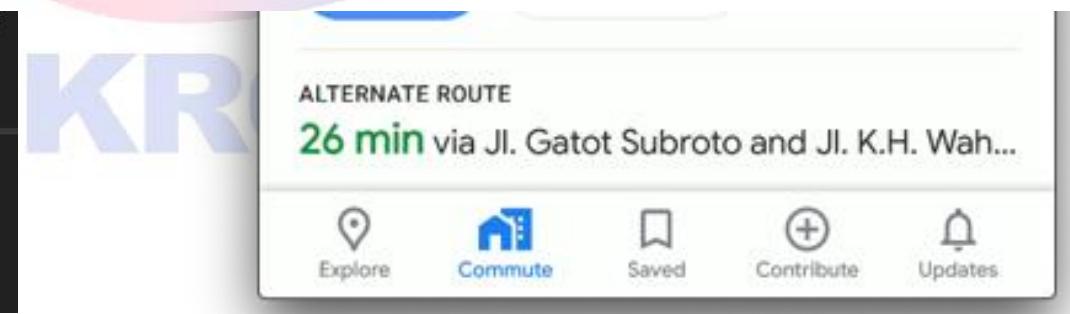
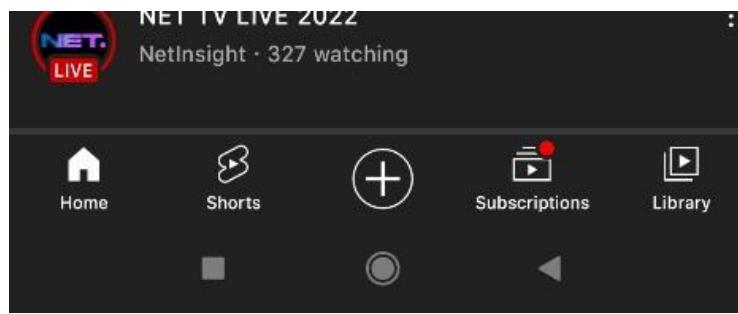
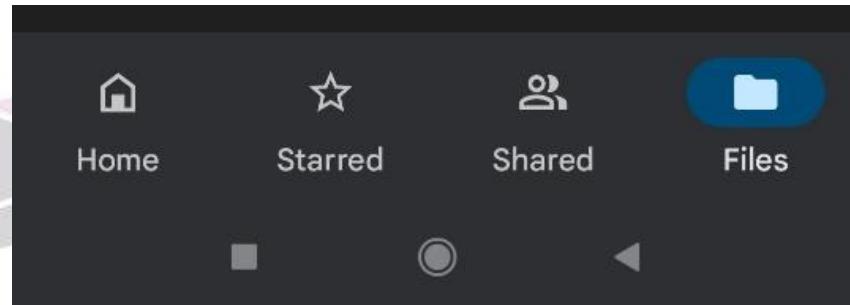
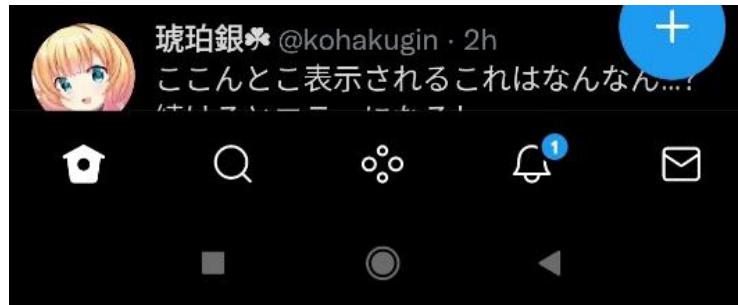
Icon and Label Color



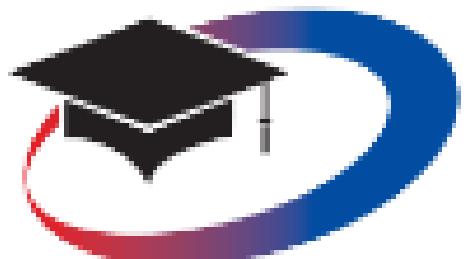
States



Contoh Implementasi Navigation Bar



Penerapan di Flutter

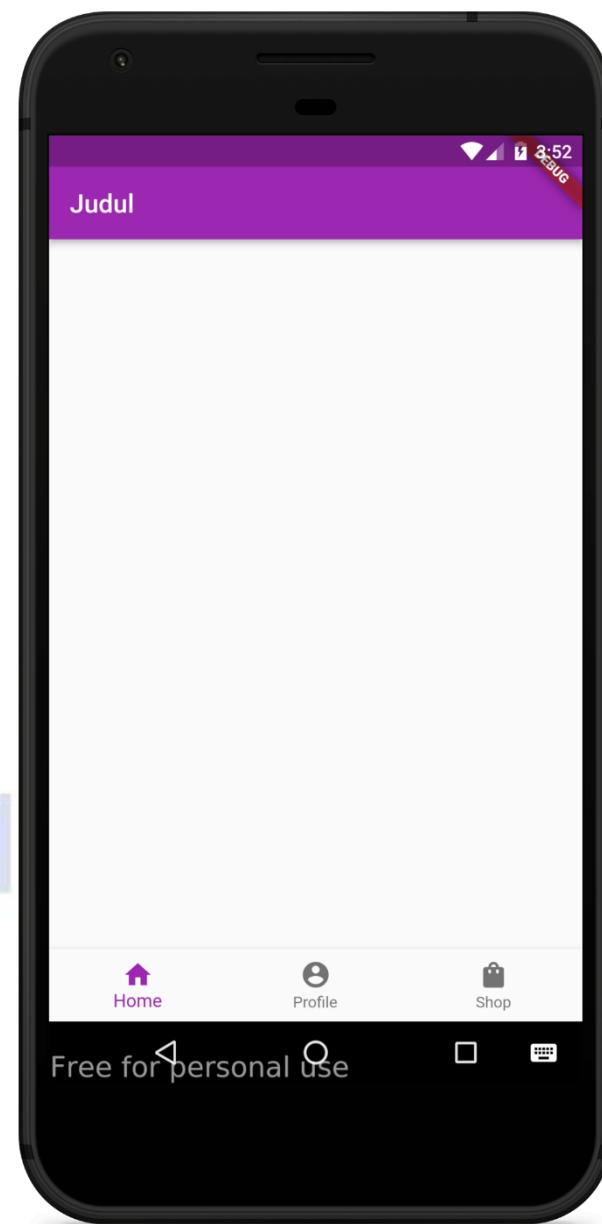


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ButtomNavigationBar

```
Scaffold(  
    appBar: AppBar(  
        title: Text("Flutter Learning"),  
    ),  
    body: Container(),  
    bottomNavigationBar: BottomNavigationBar(  
        items: [  
            BottomNavigationBarItem(  
                icon: Icon(Icons.home),  
                label: 'Home',  
            ),  
            BottomNavigationBarItem(  
                icon: Icon(Icons.account_circle),  
                label: 'Profile',  
            ),  
            BottomNavigationBarItem(  
                icon: Icon(Icons.shopping_bag),  
                label: 'Shop',  
            ),  
        ],  
    ),  
);
```



Property ButtonNavigationBar

Property	Class/Data Type	Description
onTap	ValueChanged<int>?	Menjalankan function Ketika item pada Navigation Bar di tekan
currentIndex	int	Set posisi index item
elevation	double?	Mengatur ukuran bayangan elevasi
type	BottomNavigationBarType?	Mengatur tipe dari NavigationBar. Ada 2 tipe, yaitu fixed dan shifting
backgroundColor	Color	Set warna background pada navbar
iconSize	double	Set ukuran icon
selectedItemColor	Color	Set warna item (icon dan/atau text) yang terpilih

Property lain dapat dilihat [di sini](#) dan [di sini](#)

Property ButtonNavigationBar

Property	Class/Data Type	Description
unselectedItemColor	Color	Set warna item (icon dan/atau text) yang tidak terpilih
selectedFontSize	double	Set ukuran text yang terpilih
unselectedFontSize	double	Set ukuran text yang tidak terpilih
showSelectedLabels	bool	Ketika true, label pada item yang terpilih akan muncul
showUnselectedLabels	bool	Ketika true, label pada item yang tidak terpilih akan muncul

Property lain dapat dilihat [di sini](#) dan [di sini](#)

onTap

```
BottomNavigationBar(
  items: [
    BottomNavigationBarItem(
      icon: Icon(Icons.home),
      label: 'Home',
    ),
    BottomNavigationBarItem(
      icon: Icon(Icons.account_circle),
      label: 'Profile',
    ),
    BottomNavigationBarItem(
      icon: Icon(Icons.shopping_bag),
      label: 'Shop',
    ),
  ],
  onTap: _onTap,
);

// _onTap function
void _onTap(int index)
{
  selectedIndex = index;
  setState(() {
    });
}
```

```
Scaffold(
  appBar: AppBar(
    title: Text("Flutter Learning"),
  ),
  body: Container(),
  bottomNavigationBar: BottomNavigationBar(),
);
```

currentIndex

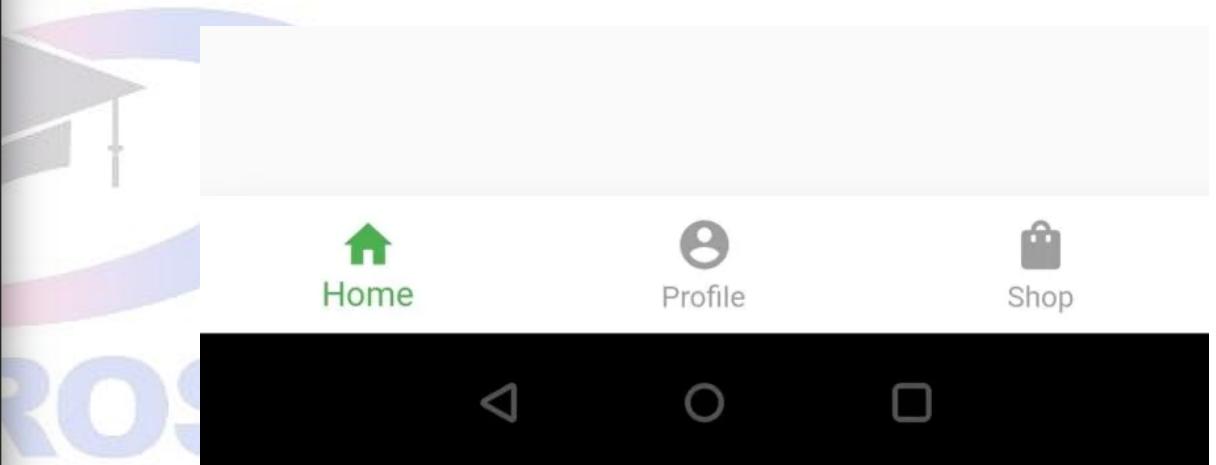
```
// Global variable int _selectedIndex = 0;
BottomNavigationBar(
    items: [
        BottomNavigationBarItem(
            icon: Icon(Icons.home),
            label: 'Home',
        ),
        BottomNavigationBarItem(
            icon: Icon(Icons.account_circle),
            label: 'Profile',
        ),
        BottomNavigationBarItem(
            icon: Icon(Icons.shopping_bag),
            label: 'Shop',
        ),
    ],
    currentIndex: _selectedIndex,
    onTap: _onTap,
);

// _onTap function
void _onTap(int index)
{
    _selectedIndex = index;
    setState(() {

    });
}
```

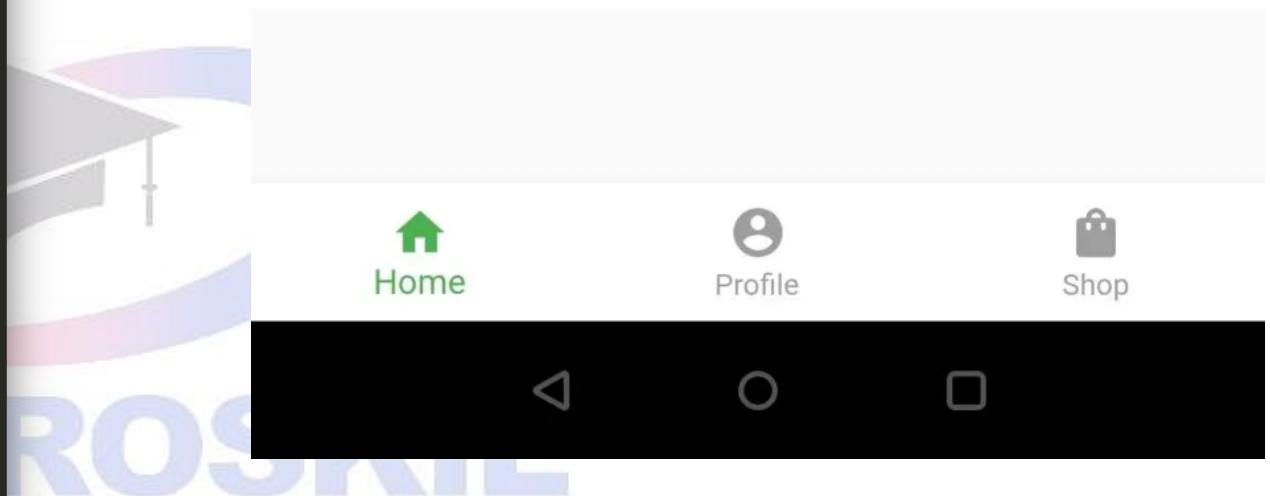
elevation

```
● ● ●  
BottomNavigationBar(  
  items: [  
    BottomNavigationBarItem(  
      icon: Icon(Icons.home),  
      label: 'Home',  
    ),  
    BottomNavigationBarItem(  
      icon: Icon(Icons.account_circle),  
      label: 'Profile',  
    ),  
    BottomNavigationBarItem(  
      icon: Icon(Icons.shopping_bag),  
      label: 'Shop',  
    ),  
  ],  
  currentIndex: _selectedIndex,  
  unselectedItemColor: Colors.grey,  
  onTap: _onTap,  
  elevation: 15,  
);
```



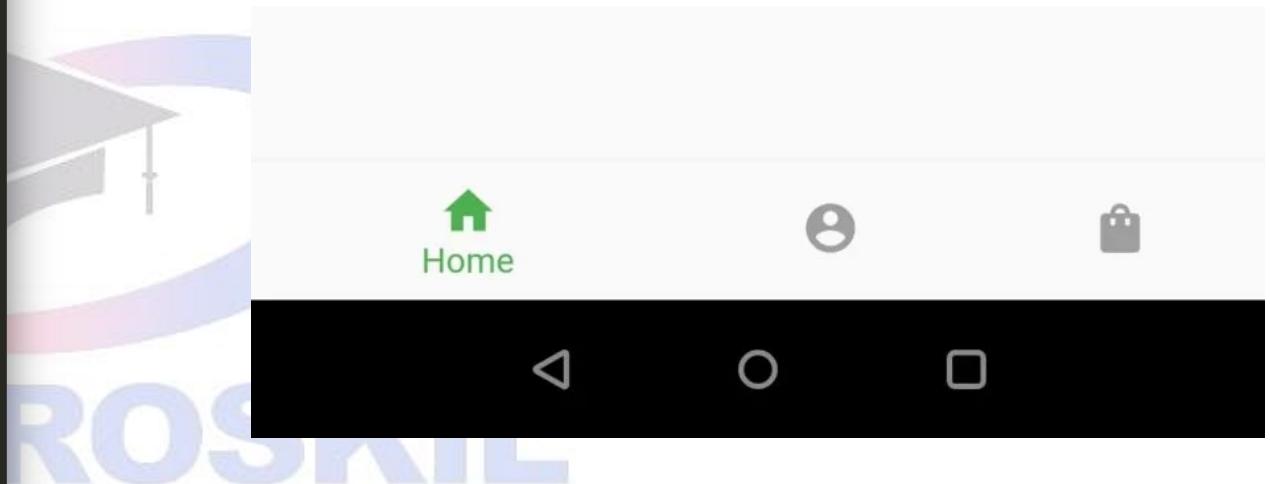
type (fixed)

```
BottomNavigationBar(  
    items: [  
        BottomNavigationBarItem(  
            icon: Icon(Icons.home),  
            label: 'Home',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.account_circle),  
            label: 'Profile',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.shopping_bag),  
            label: 'Shop',  
        ),  
    ],  
    currentIndex: _selectedIndex,  
    unselectedItemColor: Colors.grey,  
    backgroundColor: Colors.white,  
    onTap: _onTap,  
    type: BottomNavigationBarType.fixed,  
);
```



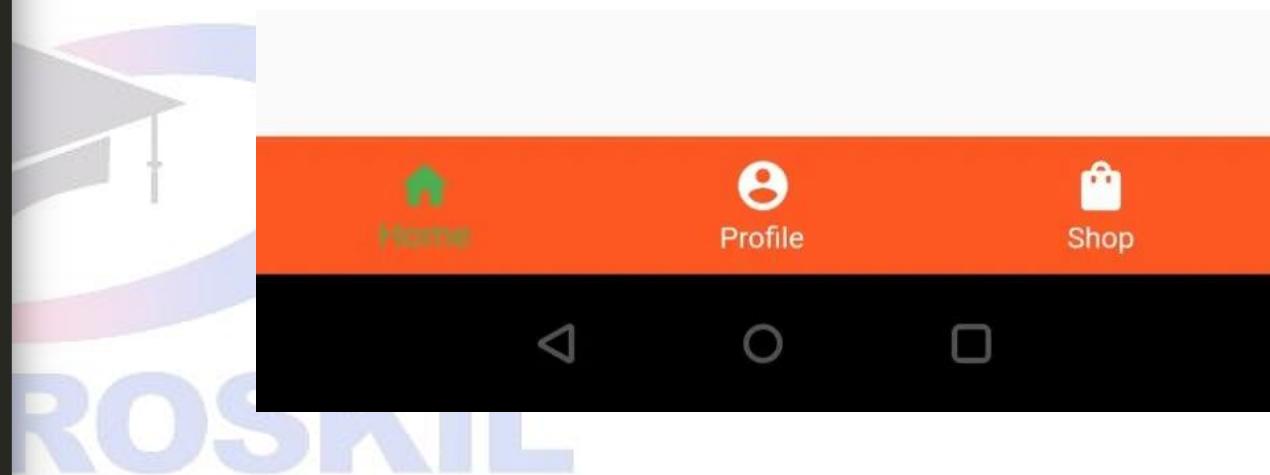
type (shifting)

```
BottomNavigationBar(  
    items: [  
        BottomNavigationBarItem(  
            icon: Icon(Icons.home),  
            label: 'Home',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.account_circle),  
            label: 'Profile',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.shopping_bag),  
            label: 'Shop',  
        ),  
    ],  
    currentIndex: _selectedIndex,  
    unselectedItemColor: Colors.grey,  
    backgroundColor: Colors.white,  
    onTap: _onTap,  
    type: BottomNavigationBarType.shifting,  
);
```



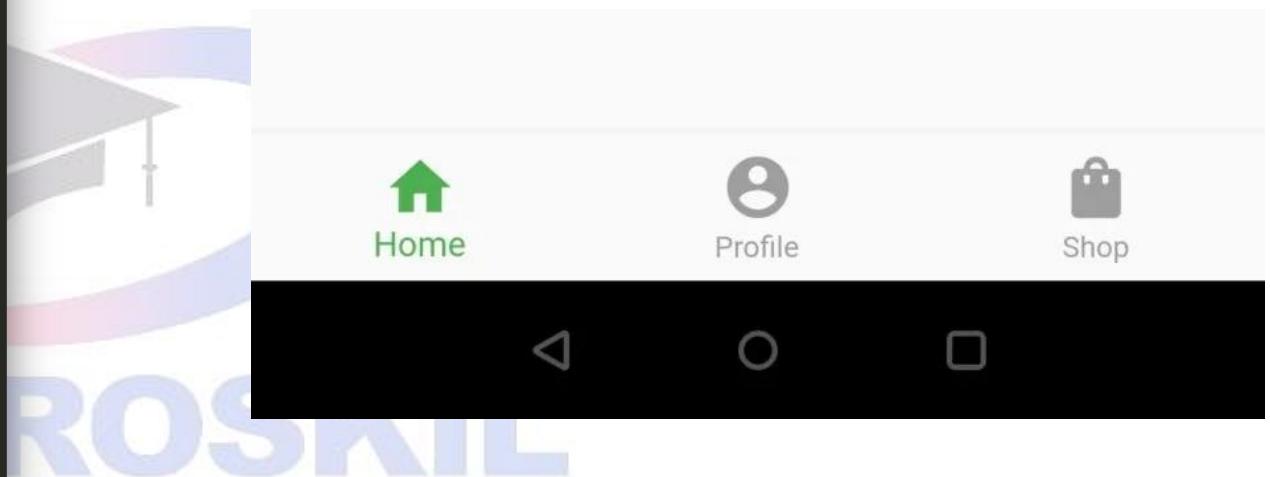
backgroundColor

```
BottomNavigationBar(  
    items: [  
        BottomNavigationBarItem(  
            icon: Icon(Icons.home),  
            label: 'Home',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.account_circle),  
            label: 'Profile',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.shopping_bag),  
            label: 'Shop',  
        ),  
    ],  
    currentIndex: _selectedIndex,  
    selectedItemColor: Colors.green,  
    unselectedItemColor: Colors.white,  
    backgroundColor: Colors.deepOrange,  
    onTap: _onTap,  
);
```



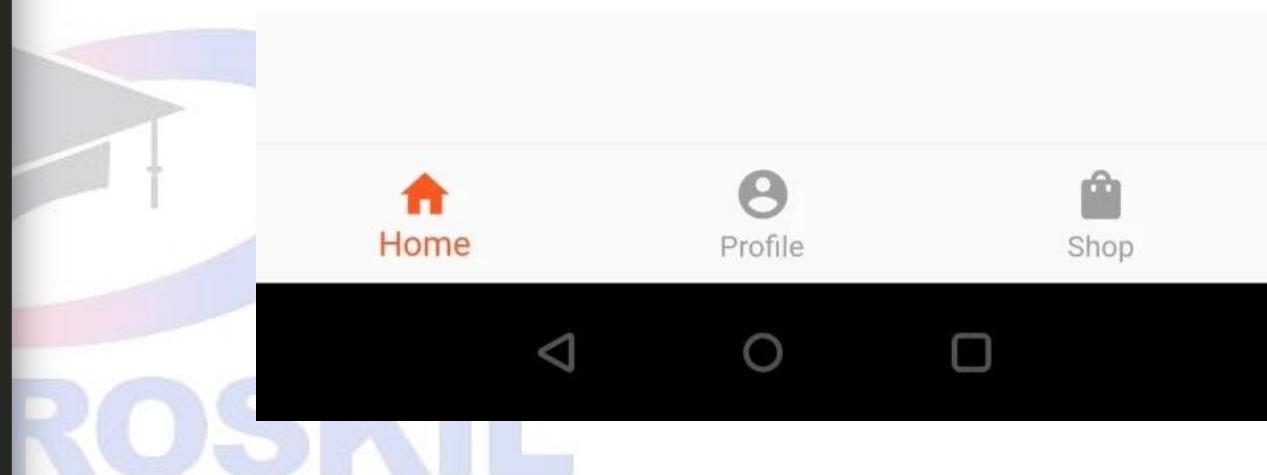
iconSize

```
BottomNavigationBar(  
    items: [  
        BottomNavigationBarItem(  
            icon: Icon(Icons.home),  
            label: 'Home',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.account_circle),  
            label: 'Profile',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.shopping_bag),  
            label: 'Shop',  
        ),  
    ],  
    currentIndex: _selectedIndex,  
    selectedItemColor: Colors.green,  
    unselectedItemColor: Colors.grey,  
    iconSize: 30,  
    onTap: _onTap,  
);
```



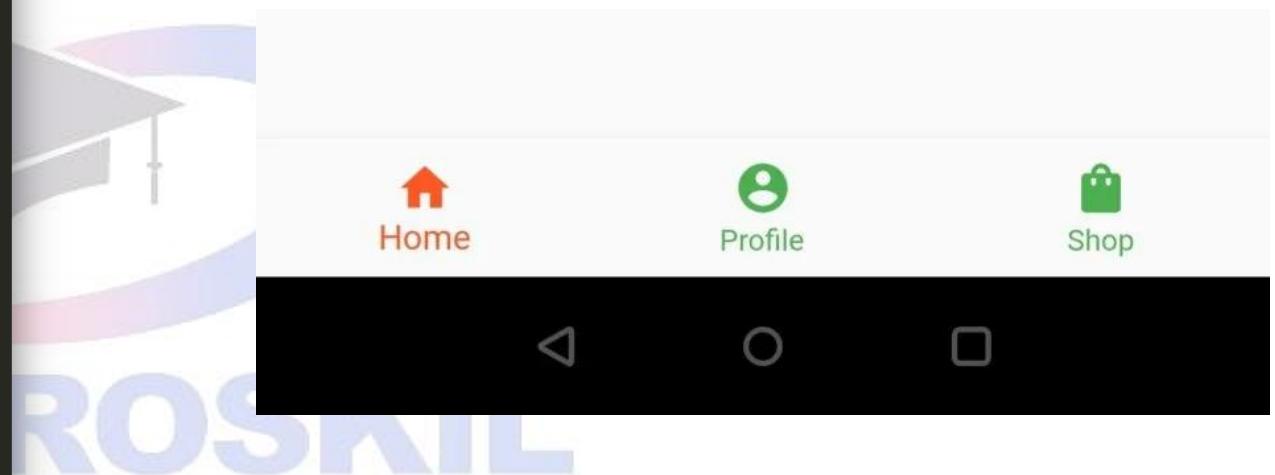
selectedItemColor

```
BottomNavigationBar(  
    items: [  
        BottomNavigationBarItem(  
            icon: Icon(Icons.home),  
            label: 'Home',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.account_circle),  
            label: 'Profile',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.shopping_bag),  
            label: 'Shop',  
        ),  
    ],  
    currentIndex: _selectedIndex,  
    selectedItemColor: Colors.deepOrange,  
    unselectedItemColor: Colors.grey,  
    iconSize: 30,  
    onTap: _onTap,  
);
```



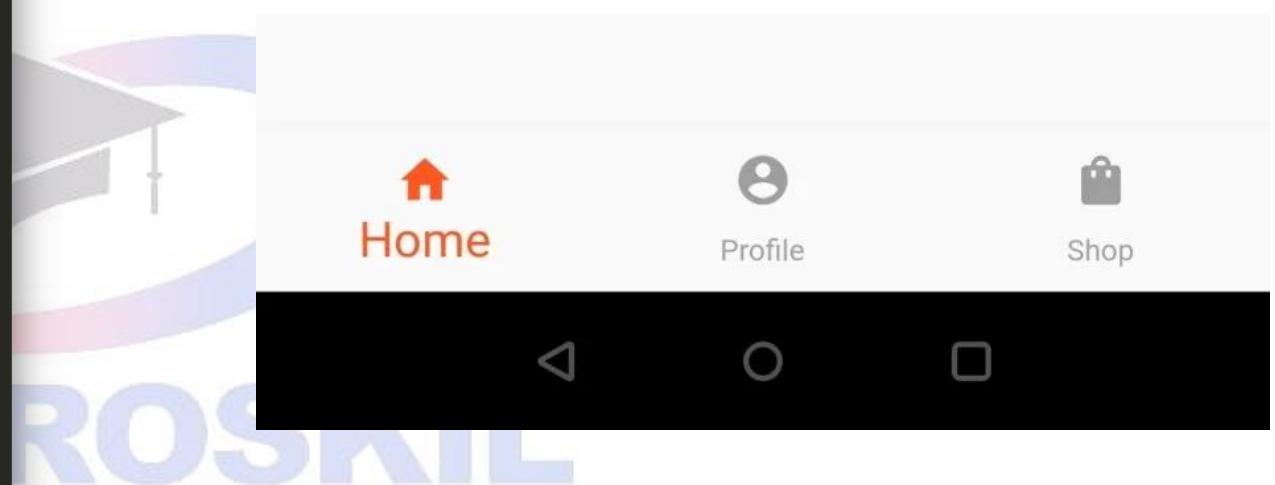
unselectedItemColor

```
BottomNavigationBar(  
    items: [  
        BottomNavigationBarItem(  
            icon: Icon(Icons.home),  
            label: 'Home',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.account_circle),  
            label: 'Profile',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.shopping_bag),  
            label: 'Shop',  
        ),  
    ],  
    currentIndex: _selectedIndex,  
    selectedItemColor: Colors.deepOrange,  
    unselectedItemColor: Colors.green,  
    iconSize: 30,  
    onTap: _onTap,  
);
```



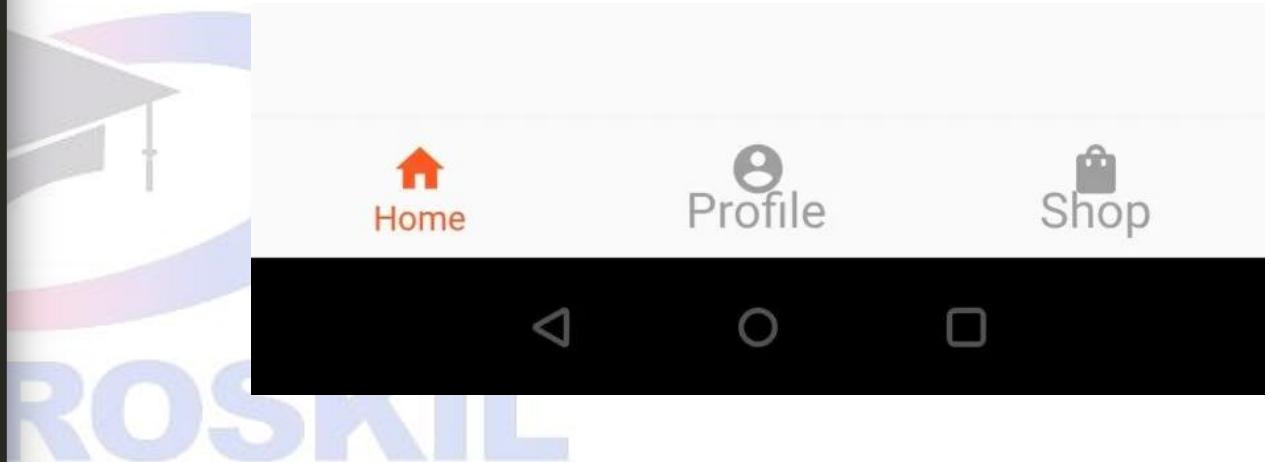
selectedFontSize

```
BottomNavigationBar(  
    items: [  
        BottomNavigationBarItem(  
            icon: Icon(Icons.home),  
            label: 'Home',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.account_circle),  
            label: 'Profile',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.shopping_bag),  
            label: 'Shop',  
        ),  
    ],  
    currentIndex: _selectedIndex,  
    selectedItemColor: Colors.deepOrange,  
    unselectedItemColor: Colors.grey,  
    selectedFontSize: 20,  
    onTap: _onTap,  
);
```



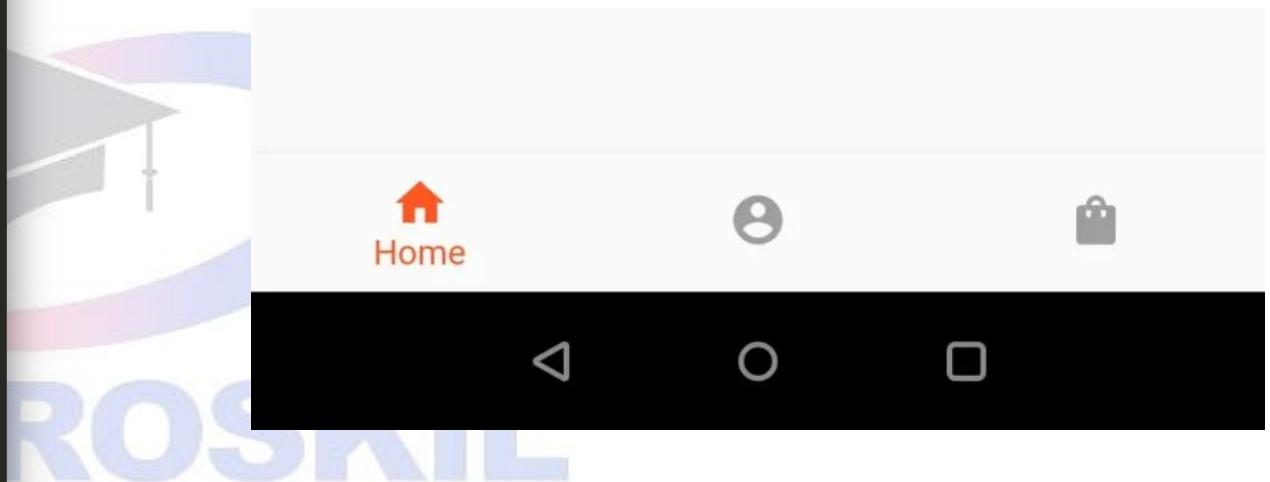
unselectedFontSize

```
BottomNavigationBar(  
    items: [  
        BottomNavigationBarItem(  
            icon: Icon(Icons.home),  
            label: 'Home',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.account_circle),  
            label: 'Profile',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.shopping_bag),  
            label: 'Shop',  
        ),  
    ],  
    currentIndex: _selectedIndex,  
    selectedItemColor: Colors.deepOrange,  
    unselectedItemColor: Colors.grey,  
    unselectedFontSize: 20,  
    onTap: _onTap,  
);
```



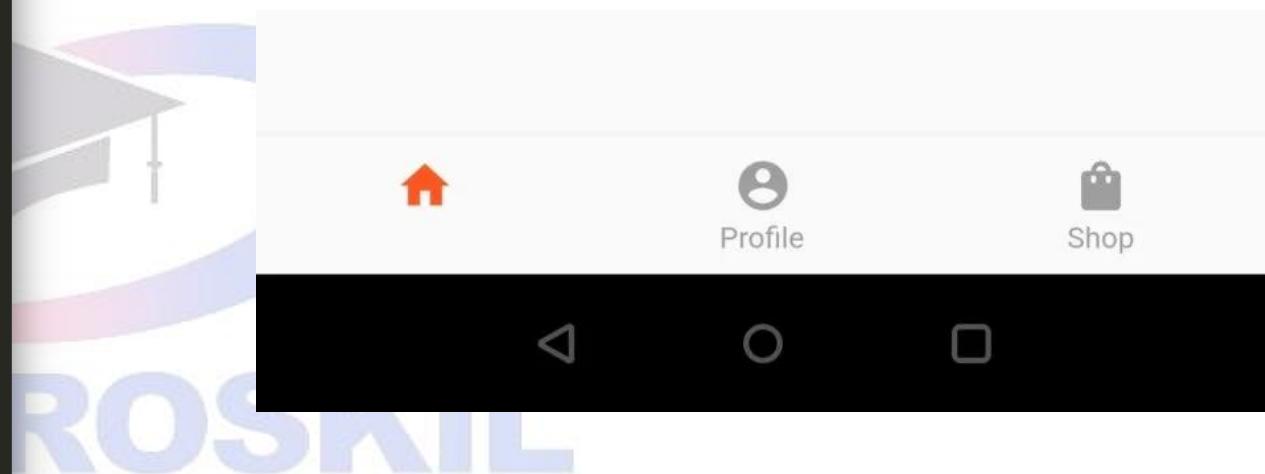
showSelectedLabels

```
BottomNavigationBar(  
    items: [  
        BottomNavigationBarItem(  
            icon: Icon(Icons.home),  
            label: 'Home',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.account_circle),  
            label: 'Profile',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.shopping_bag),  
            label: 'Shop',  
        ),  
    ],  
    currentIndex: _selectedIndex,  
    selectedItemColor: Colors.deepOrange,  
    unselectedItemColor: Colors.grey,  
    showSelectedLabels: false,  
    onTap: _onTap,  
);
```

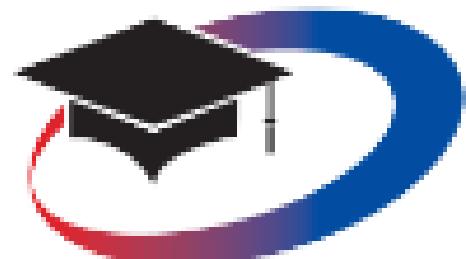


showUnselectedLabels

```
BottomNavigationBar(  
    items: [  
        BottomNavigationBarItem(  
            icon: Icon(Icons.home),  
            label: 'Home',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.account_circle),  
            label: 'Profile',  
        ),  
        BottomNavigationBarItem(  
            icon: Icon(Icons.shopping_bag),  
            label: 'Shop',  
        ),  
    ],  
    currentIndex: _selectedIndex,  
    selectedItemColor: Colors.deepOrange,  
    unselectedItemColor: Colors.grey,  
    showUnselectedLabels: false,  
    onTap: _onTap,  
);
```



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