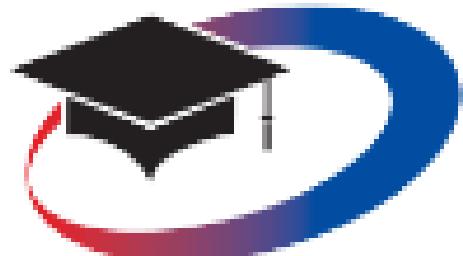


Komponen dalam Mendesain Aplikasi

TI2137 - Pengembangan Aplikasi Mobil Front-End



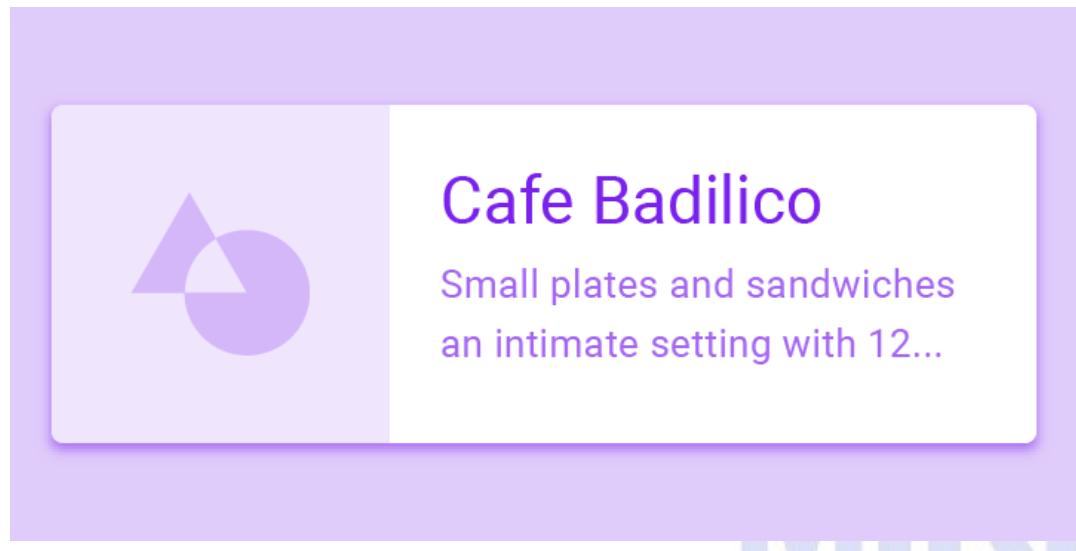
UNIVERSITAS
MIKROSKIL
PRODI. TEKNIK INFORMATIKA (S-1)

Team Teaching

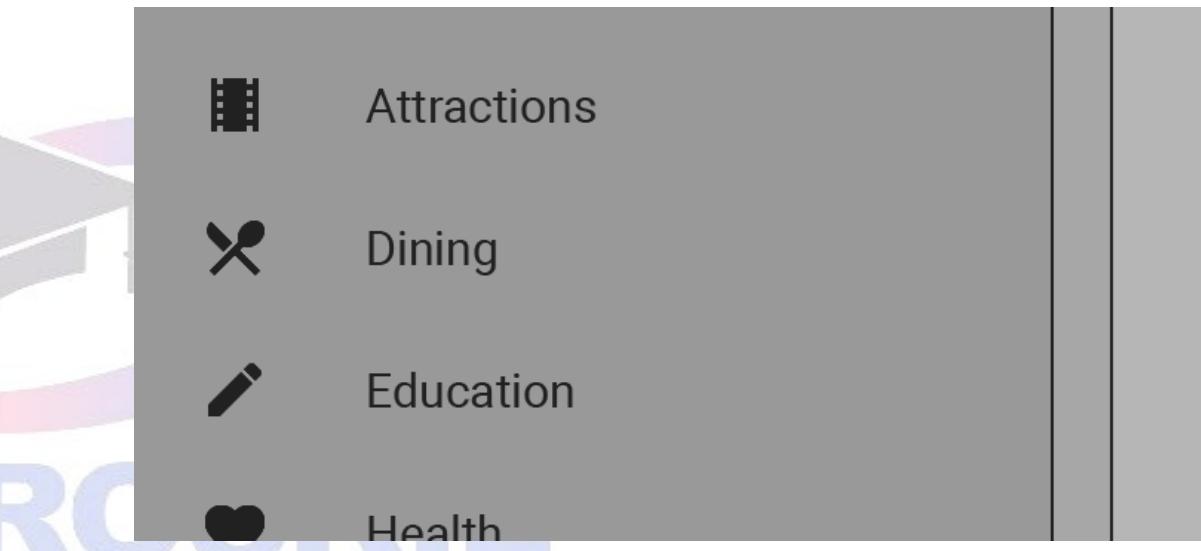
- Sunaryo Winardi, S.Kom., M.TI.
- Sio Jurnalis Pipin, S.Kom., M.Kom.
- M. Taufiq Hidayat Pohan, S.Kom.
- Richy Rotuahta Saragih, S.Kom.



Komponen dalam Mendesain Aplikasi Part. 9



Cards



ListsTile

Cards



UNIVERSITAS
MIKROSKIL
PRODI. TEKNIK INFORMATIKA (S-1)

Cards adalah...

- Sebuah objek atau komponen permukaan
- Berisi konten dan aksi
- Isi berhubungan dengan satu topik spesifik



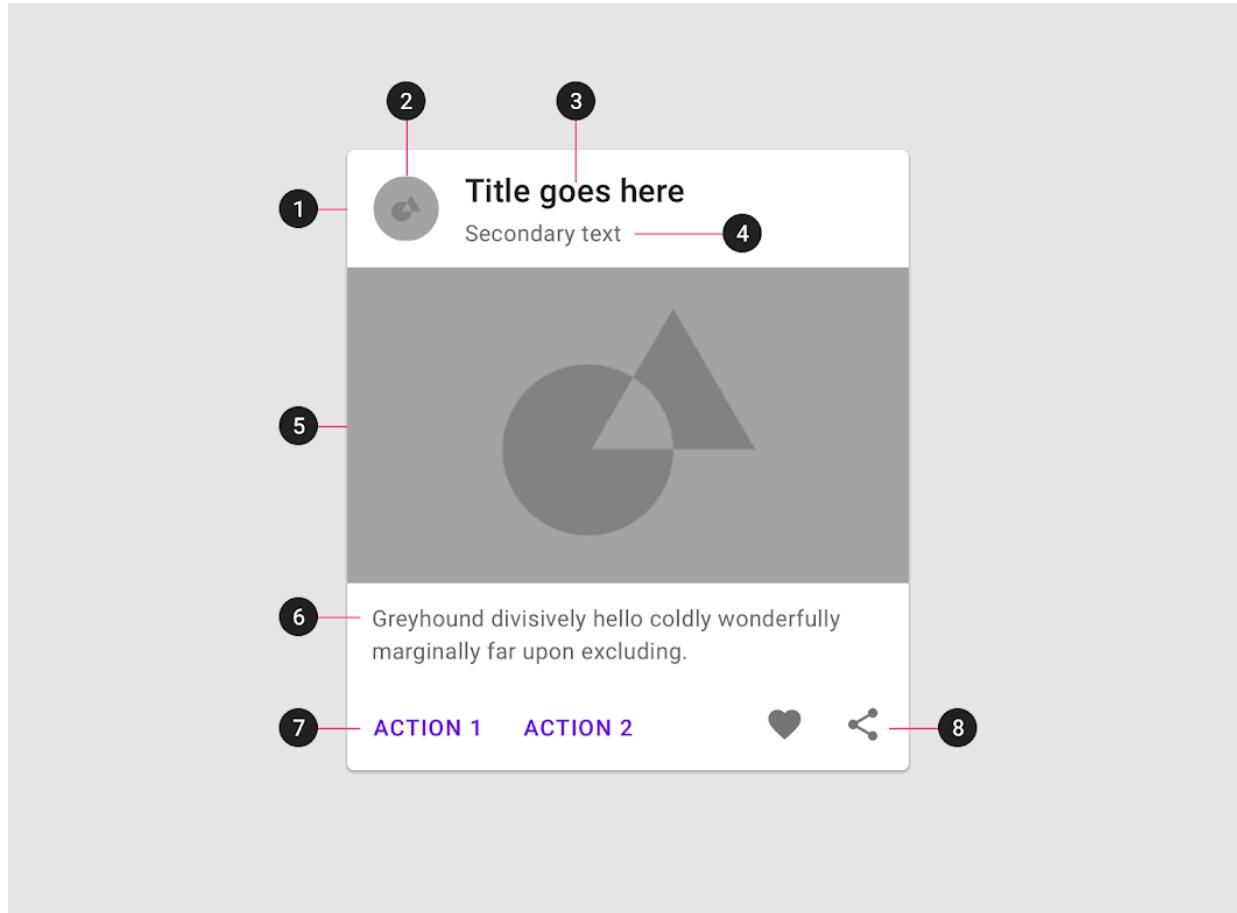
Card title

Secondary text

Greyhound divisively hello coldly wonderfully marginally far upon excluding.

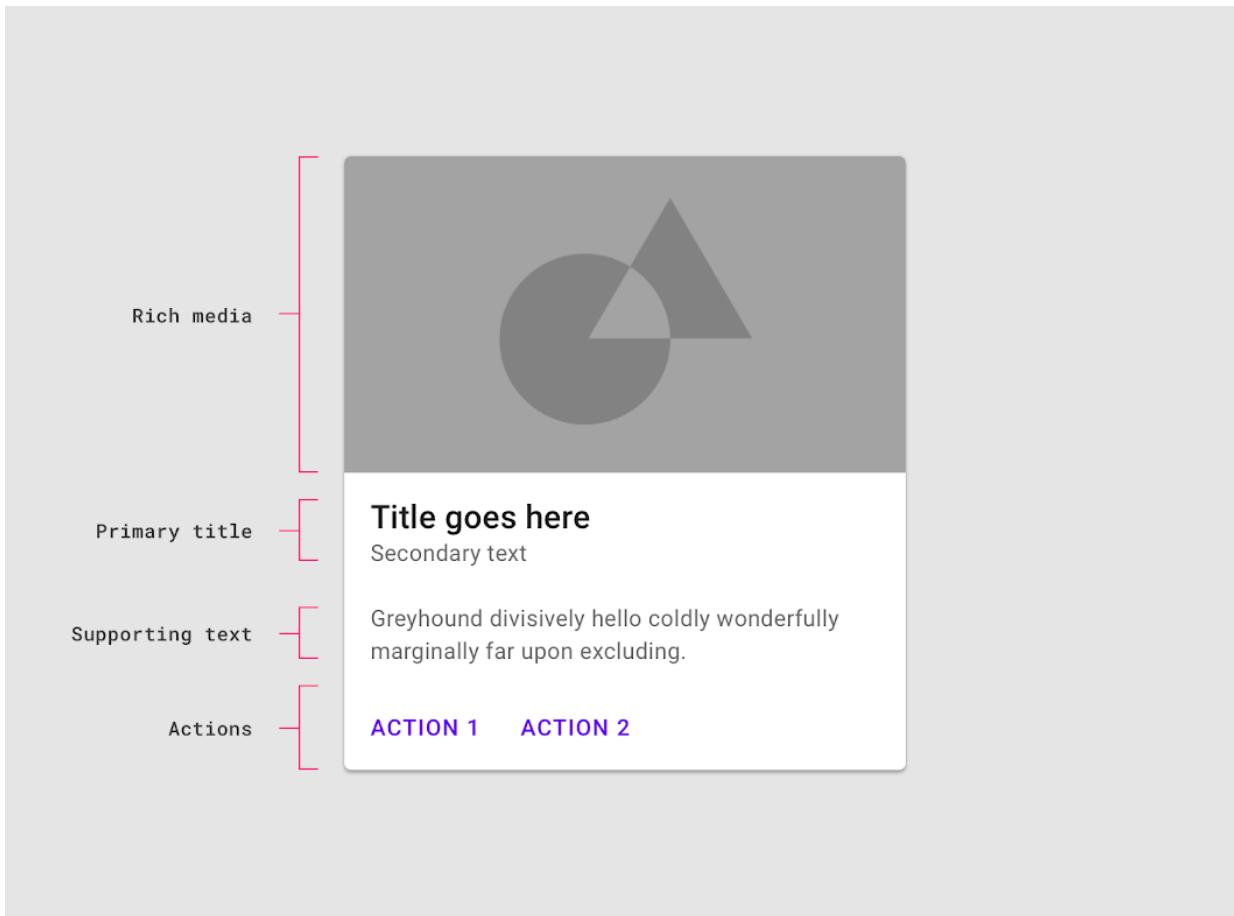
[ACTION 1](#) [ACTION 2](#)

Anatomi pada Cards



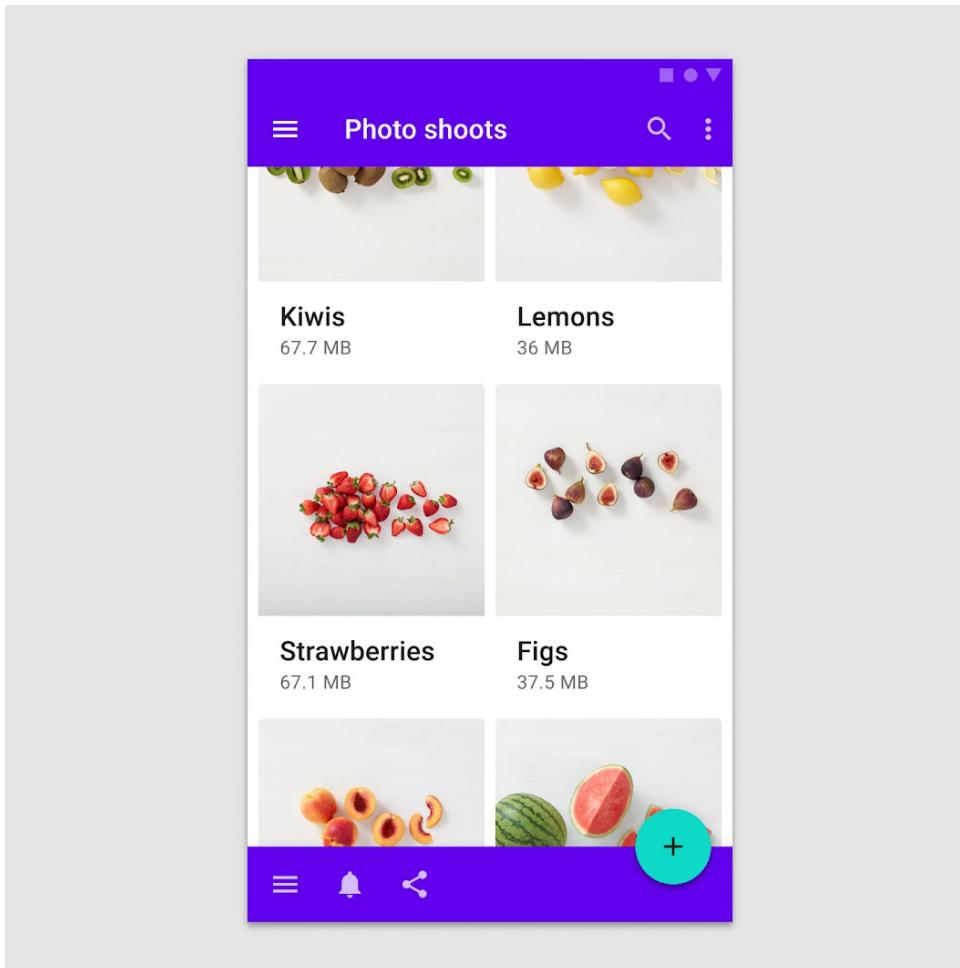
- 1. Container**
- 2. Thumbnail [optional]**
- 3. Header text [optional]**
- 4. Subhead [optional]**
- 5. Media [optional]**
- 6. Supporting text [optional]**
- 7. Buttons [optional]**
- 8. Icons [optional]**

Anatomi pada Cards

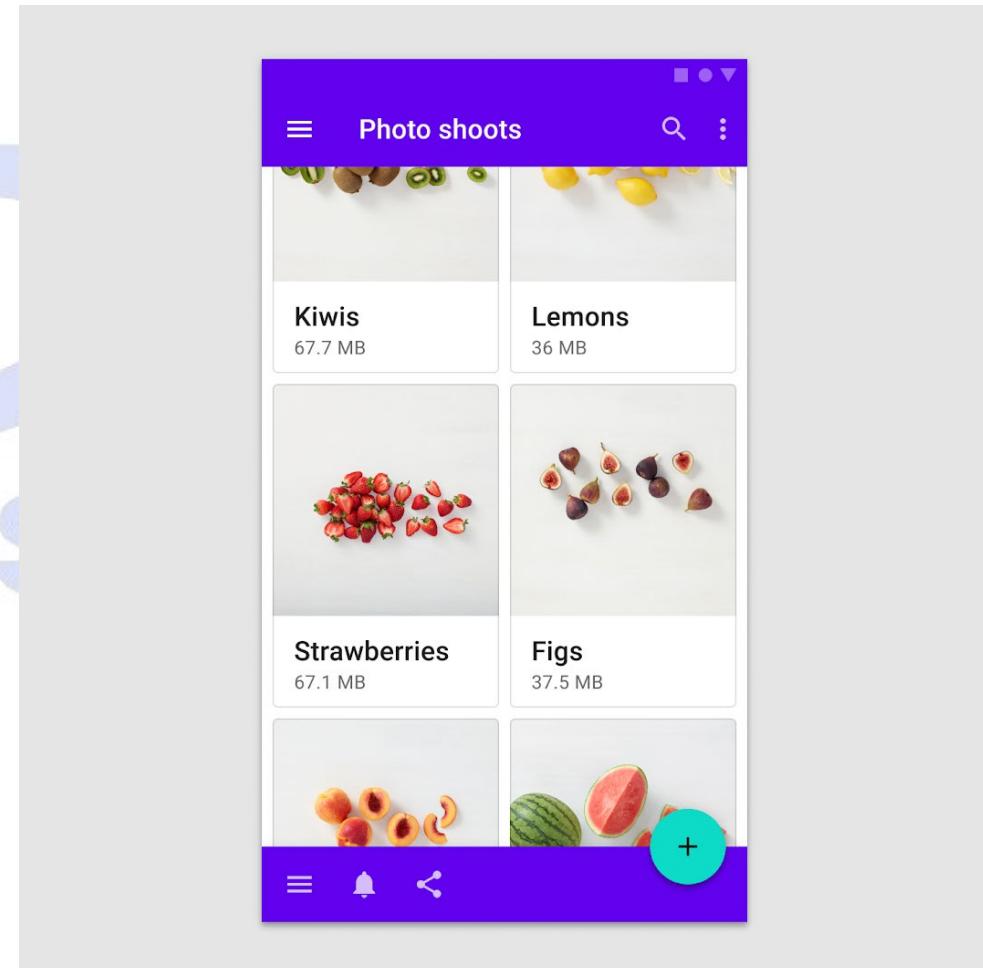


Containment

Implicit



Explicit



Dividers



Cafe Badilico

★★★★★ 4.5 (413)

\$ • Italian, Cafe

Small plates, salads & sandwiches in an intimate setting with 12 indoor seats plus patio seating.

1

Tonight's availability

5:30PM 7:30PM 8:00PM 9:00PM

[RESERVE](#)



Hong Kong

Mon, 12:30 PM, Mostly Sunny

23 °C

2% Precipitation 23 km/h Winds

8AM 11AM 2PM 5PM 8PM

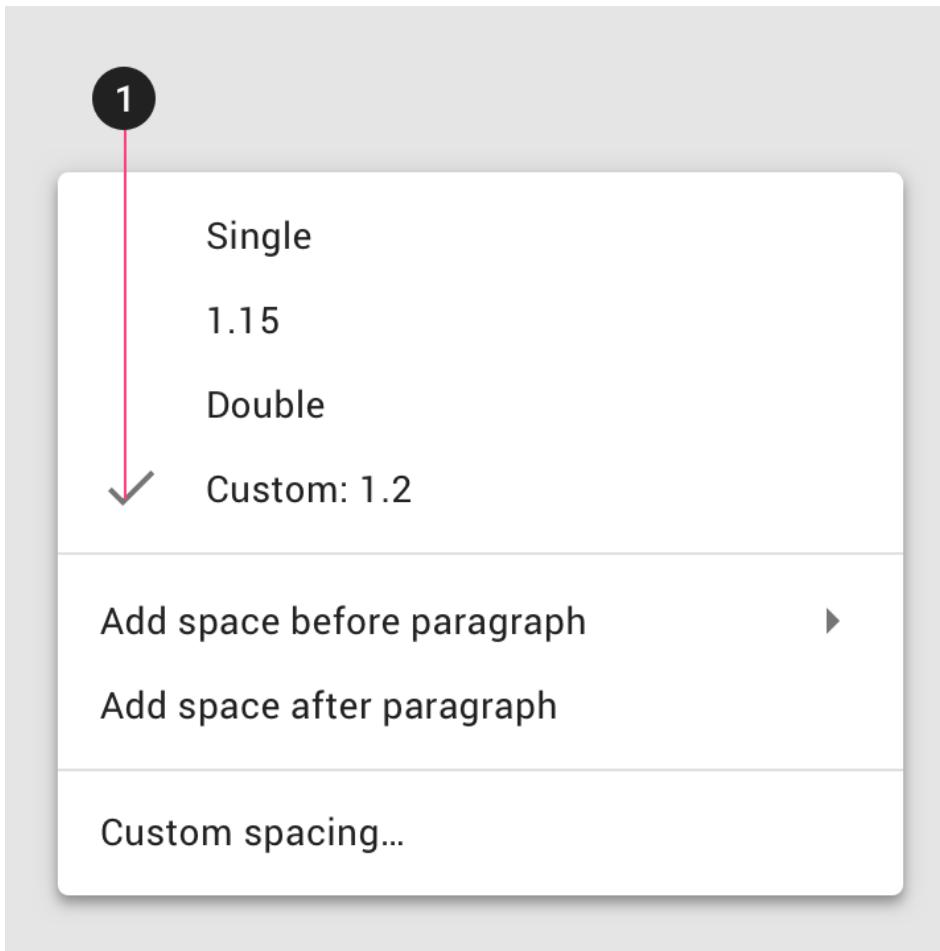
1

[EXPAND](#)

Elevation



Anatomi pada Menus



Text with selection state list
Selection state

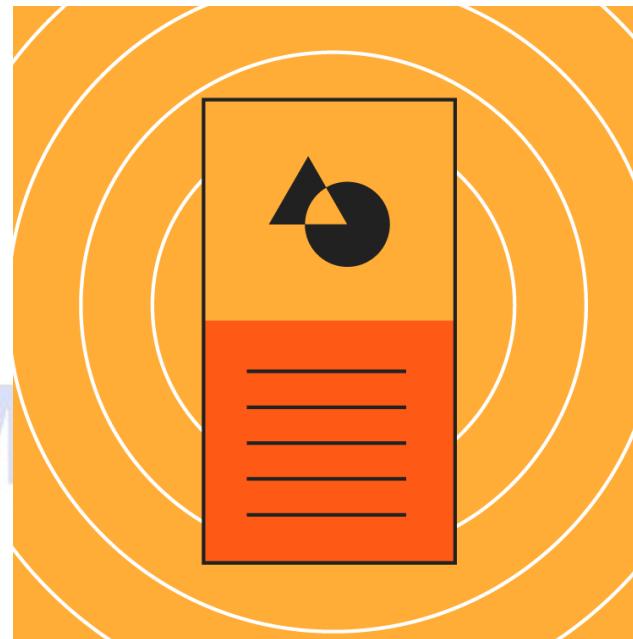


Principle of Cards

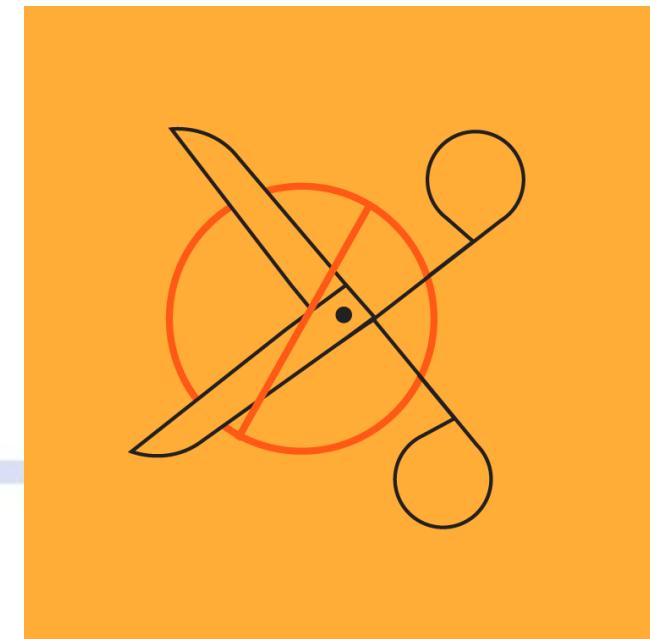
Contained



Independent



Individual

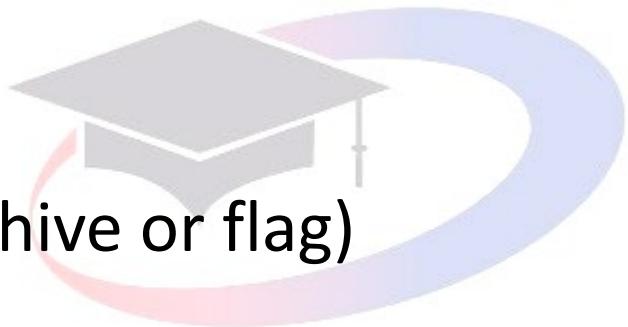


Behavior

Gesture

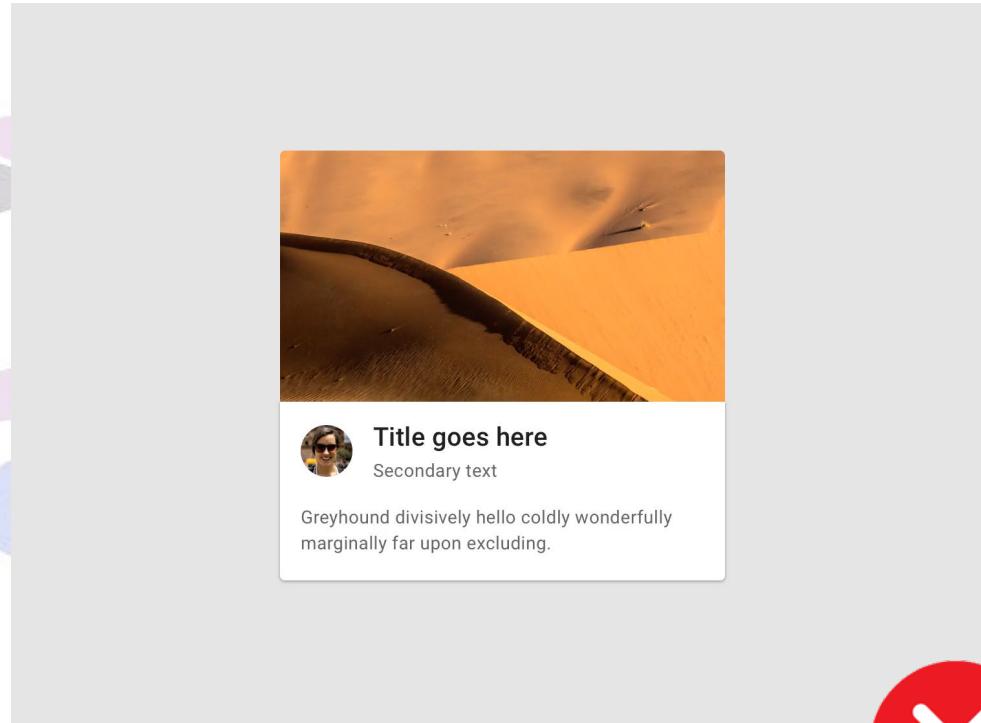
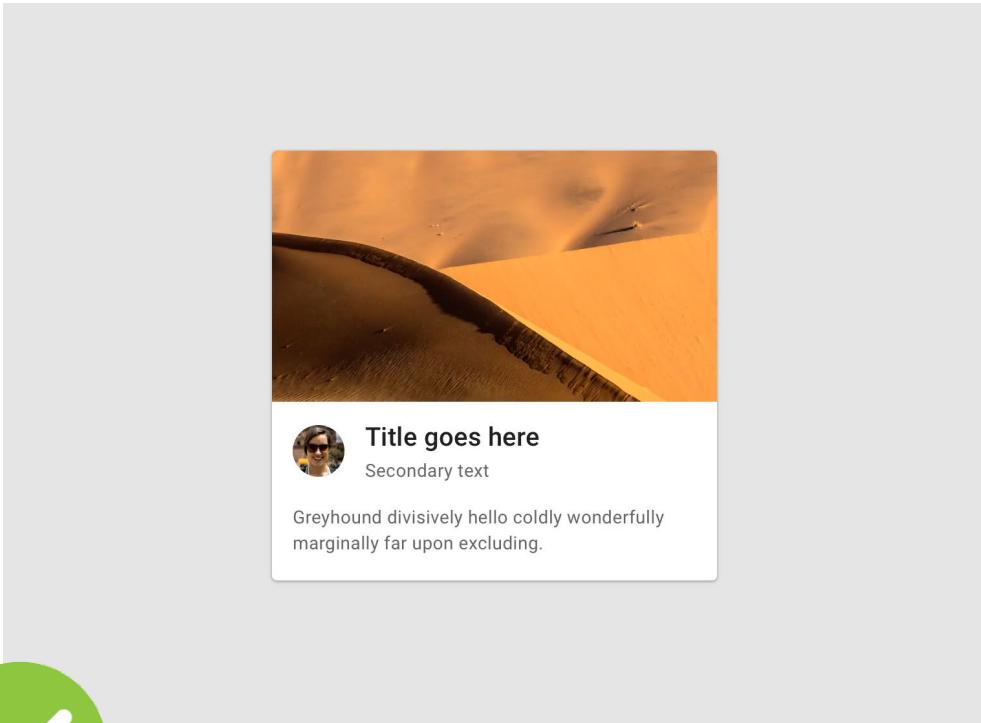
Gesture yang dibolehkan:

- Dismiss a card
- Change state of card (achieve or flag)

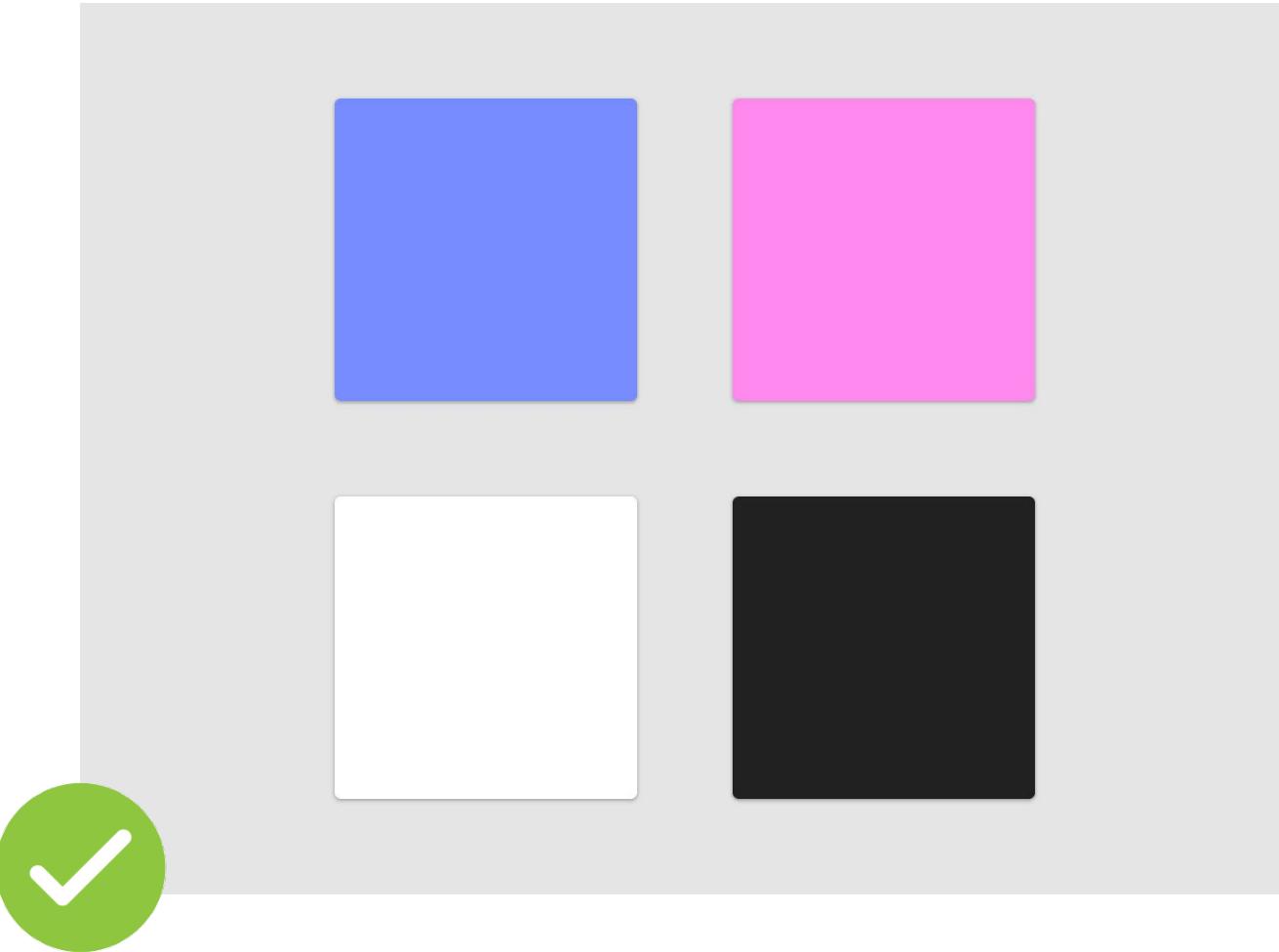


MIKROSKIL

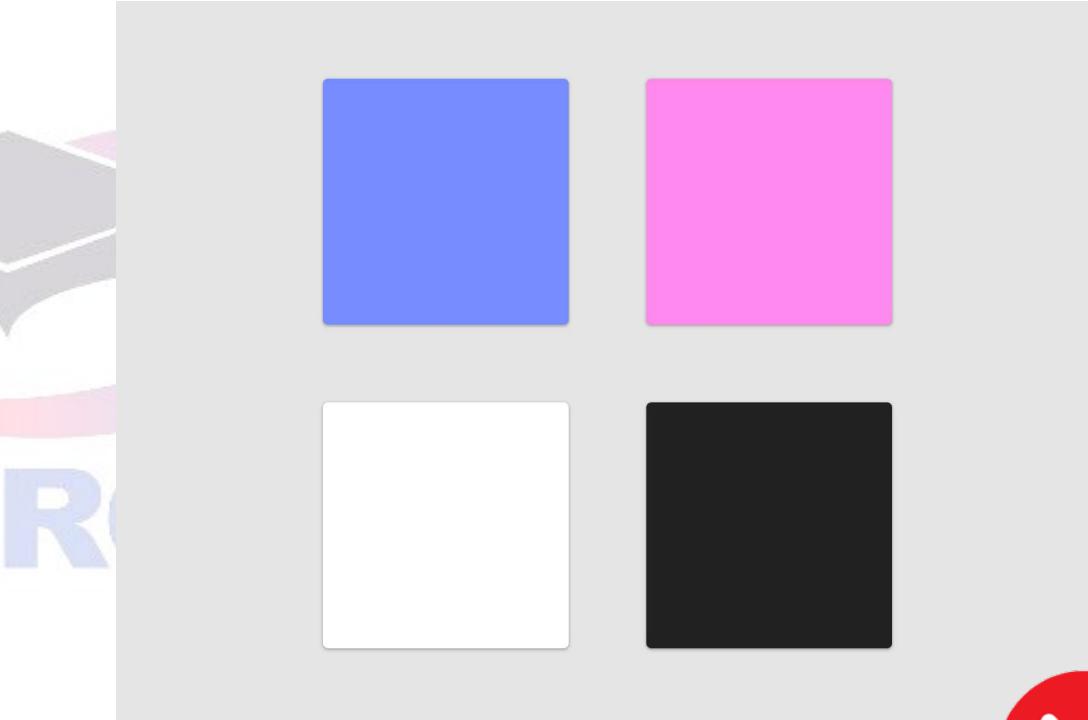
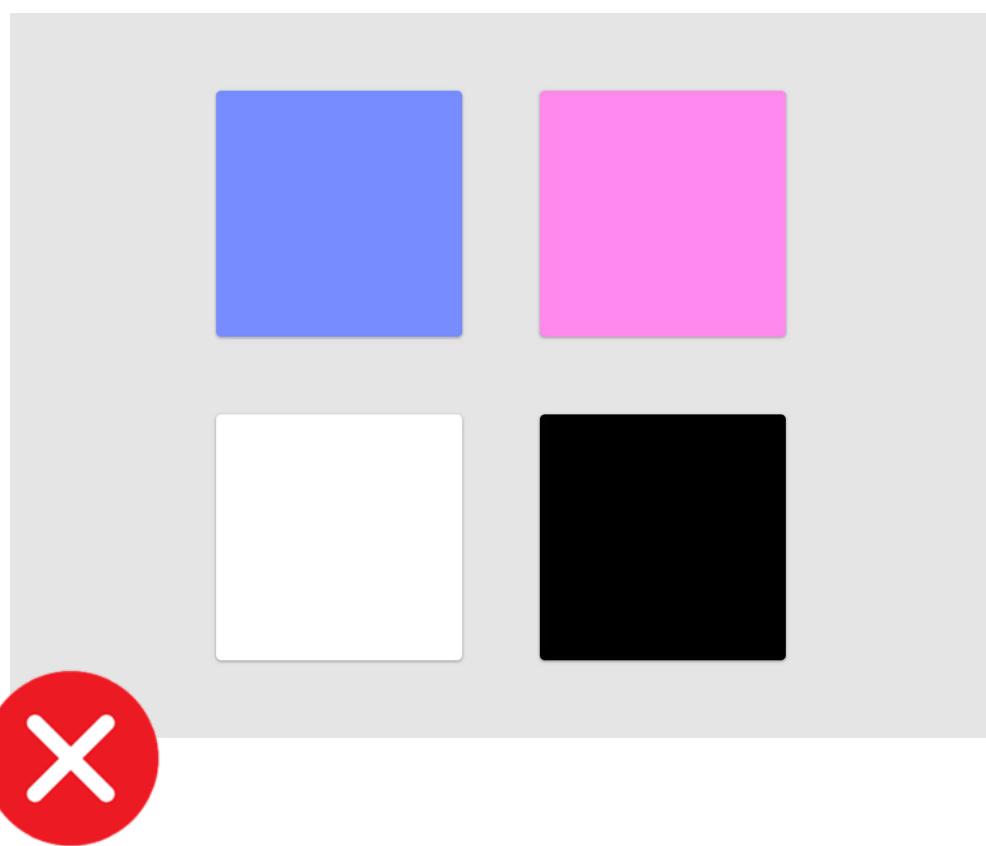
Swipe



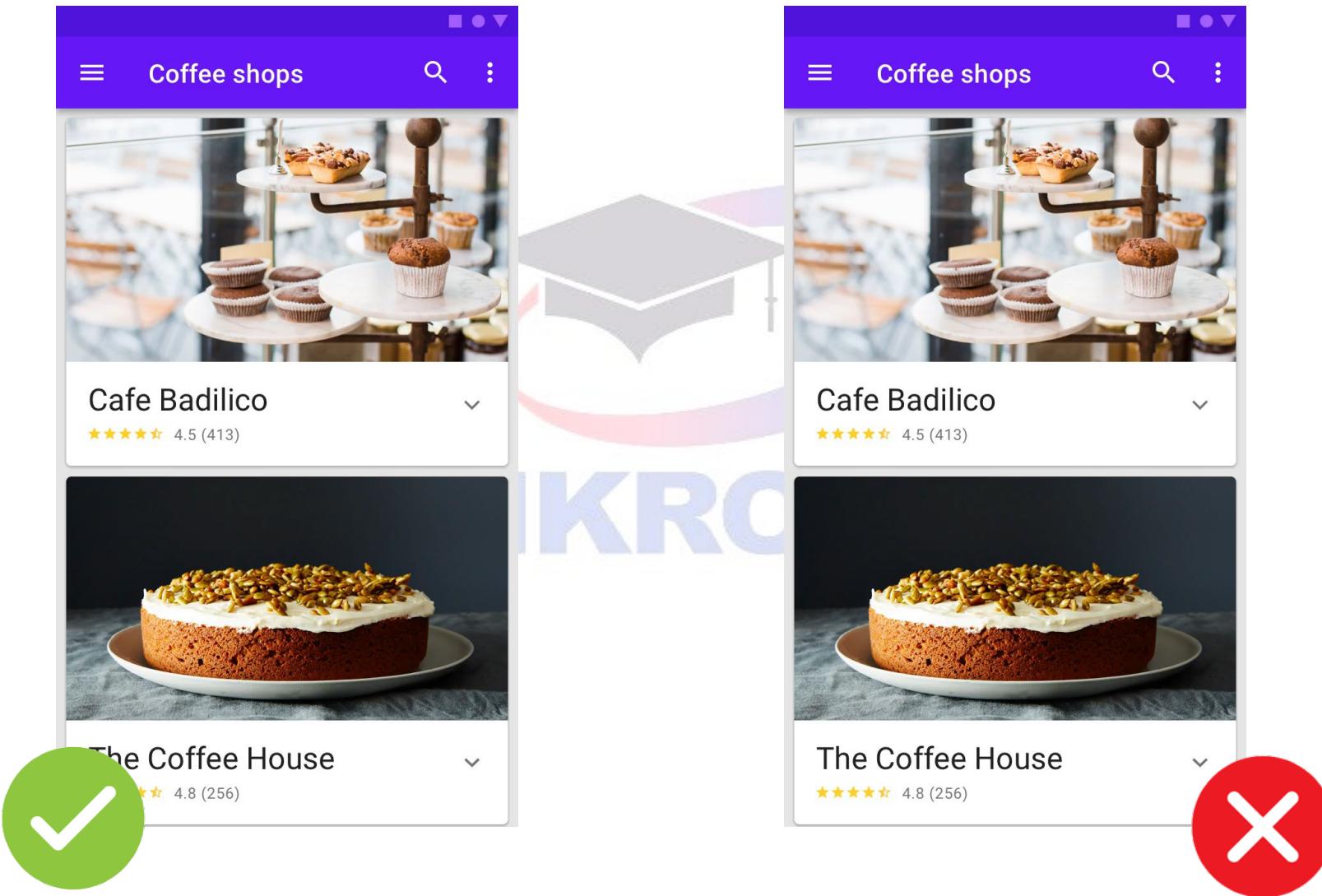
Pick up and Move



Pick up and Move



Scrolling



Actions

Primary Action

Action area



Title goes here
Secondary text

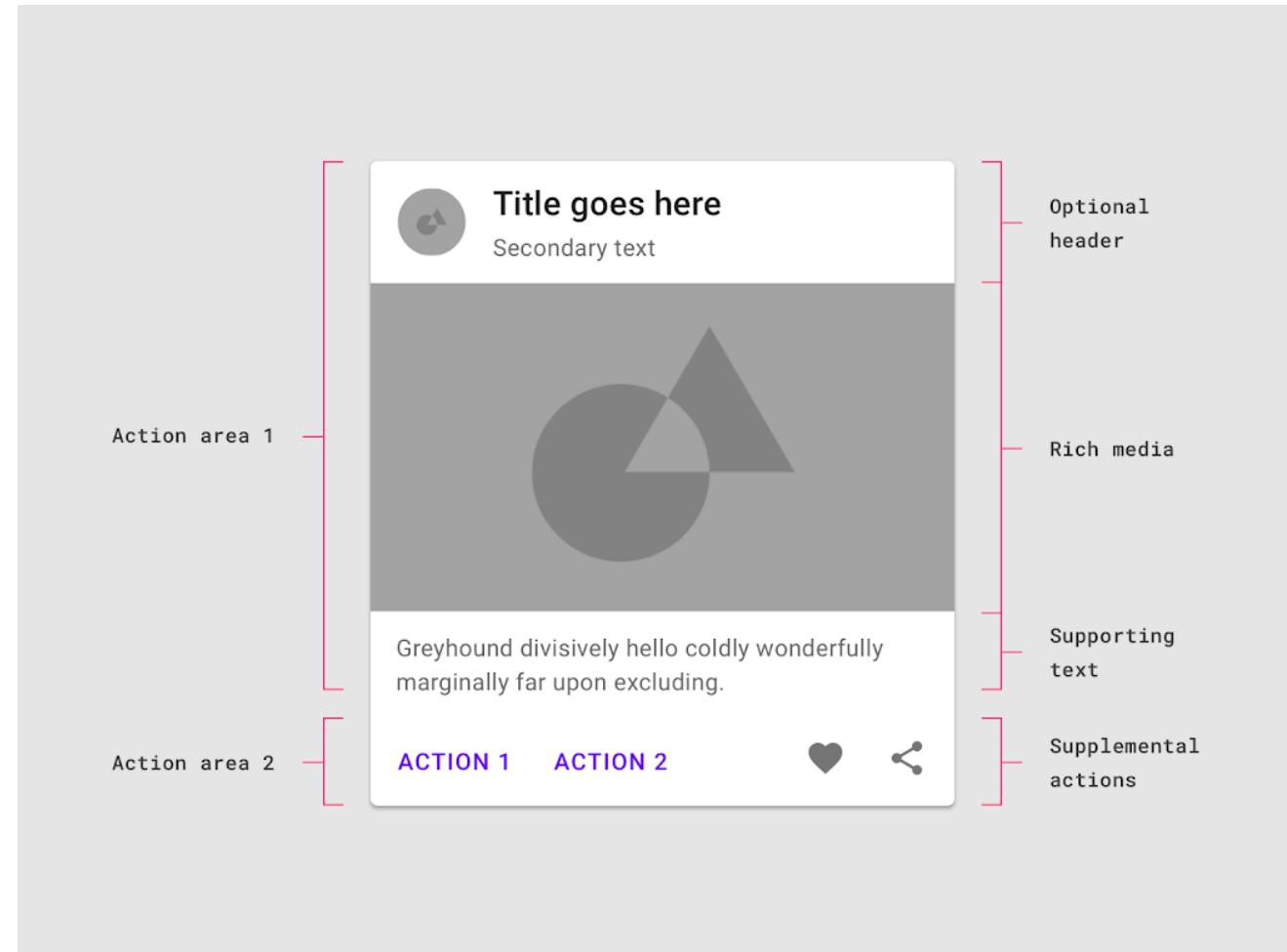
Greyhound divisively hello coldly wonderfully marginally far upon excluding.

Rich media

Supporting text

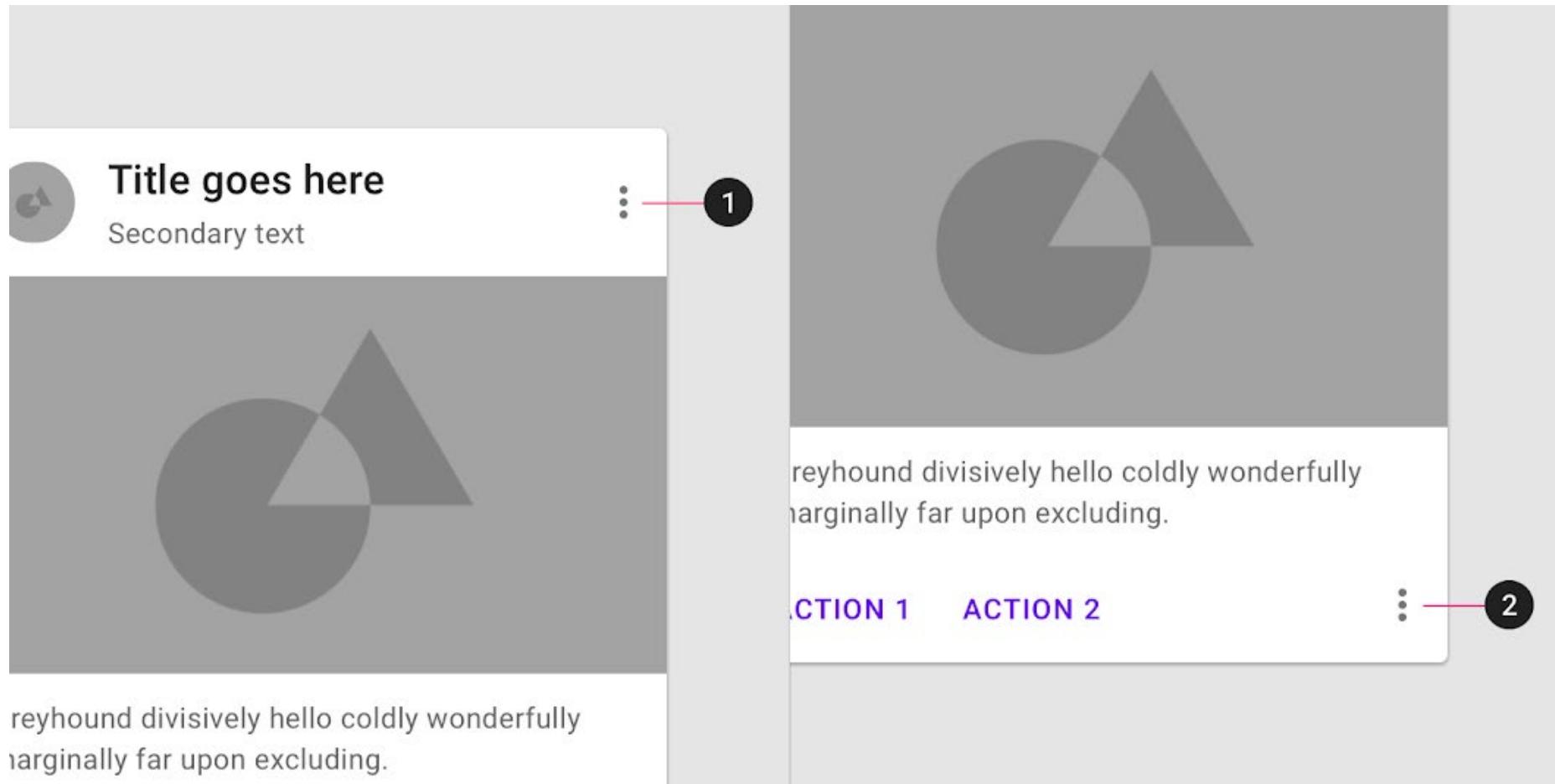
Actions

Supplemental Action



Actions

Overflow Menu



UI Controls

Rozes
Under the Grave
(2016)

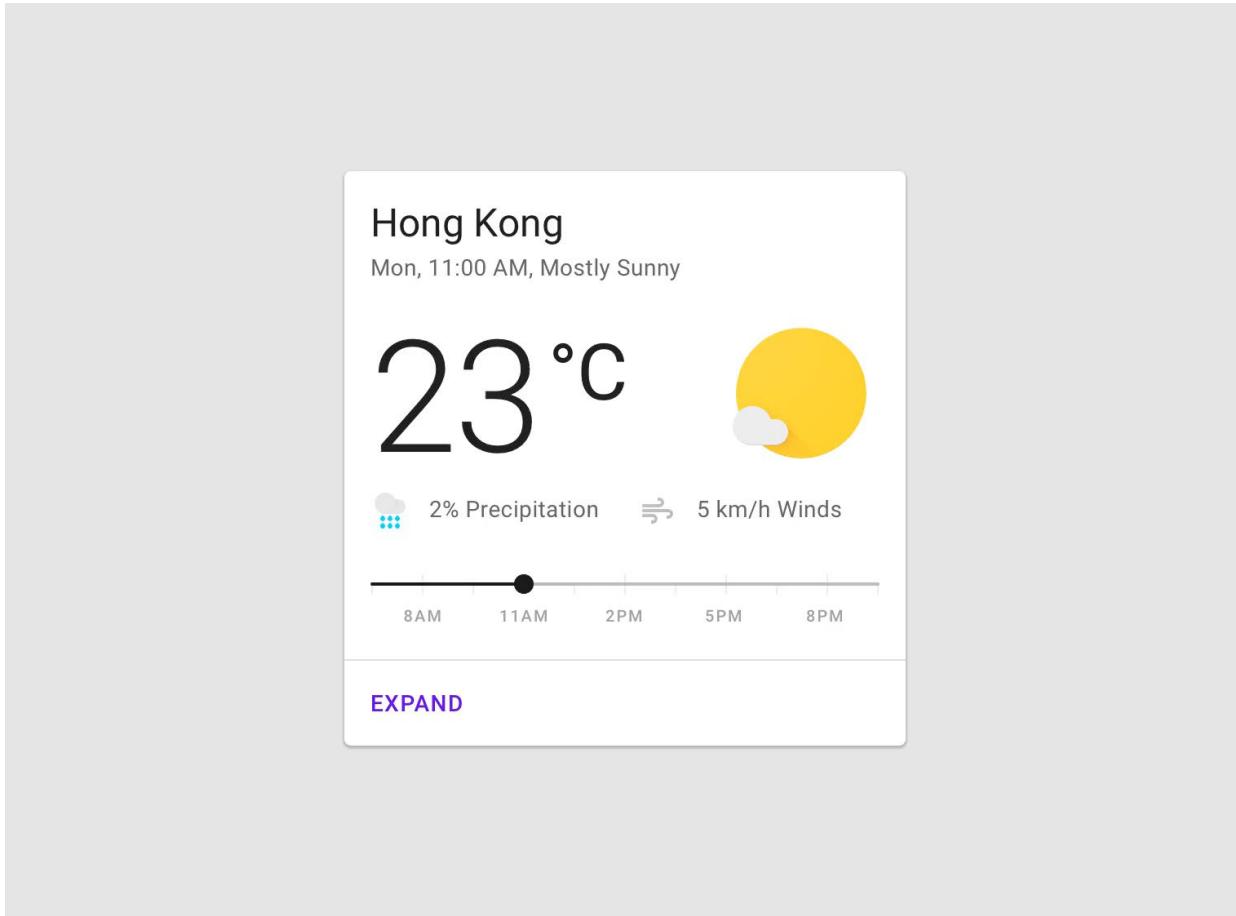
Rate this album

Cafe Badilico
 4.5 (413)
\$ • Italian, Cafe
Small plates, salads & sandwiches an intimate setting with 12 indoor seats plus patio seating.

Tonight's availability
5:30PM 7:30PM 8:00PM 9:00PM

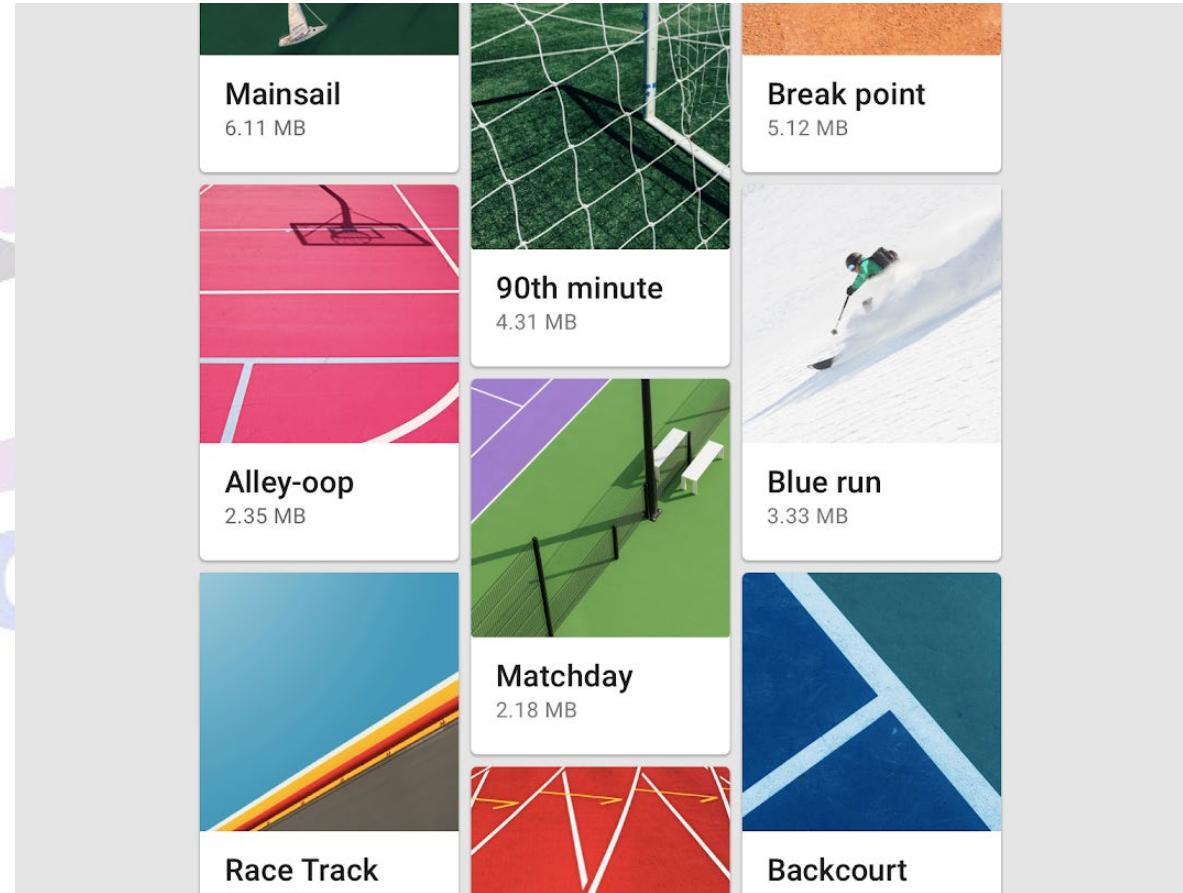
[RESERVE](#)

UI Controls



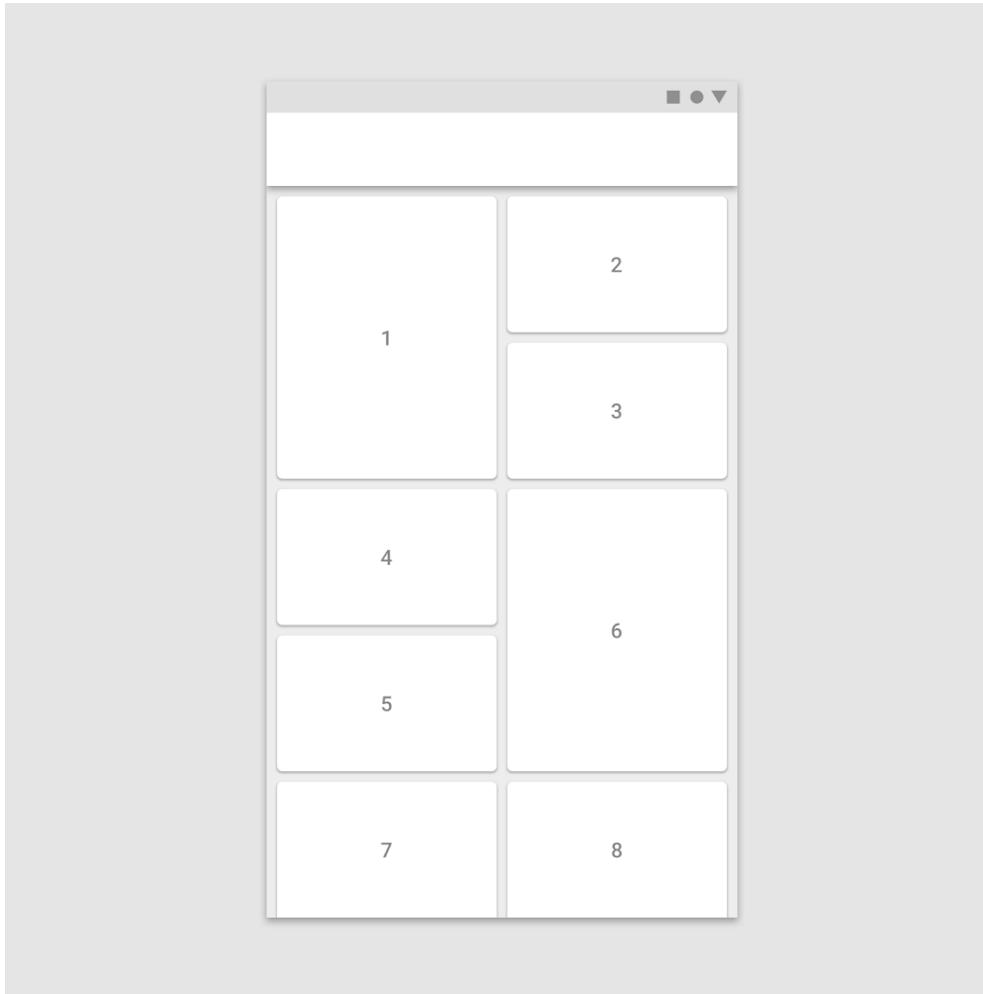
Card Collection

- Card akan di kelompokkan dalam satu atau beberapa kelompok
- Secara default ukuran card akan seragam
- Memiliki ukuran elevasi yang sama
- Kecuali kalau sedang pickup atau drag, elevasi bisa berubah



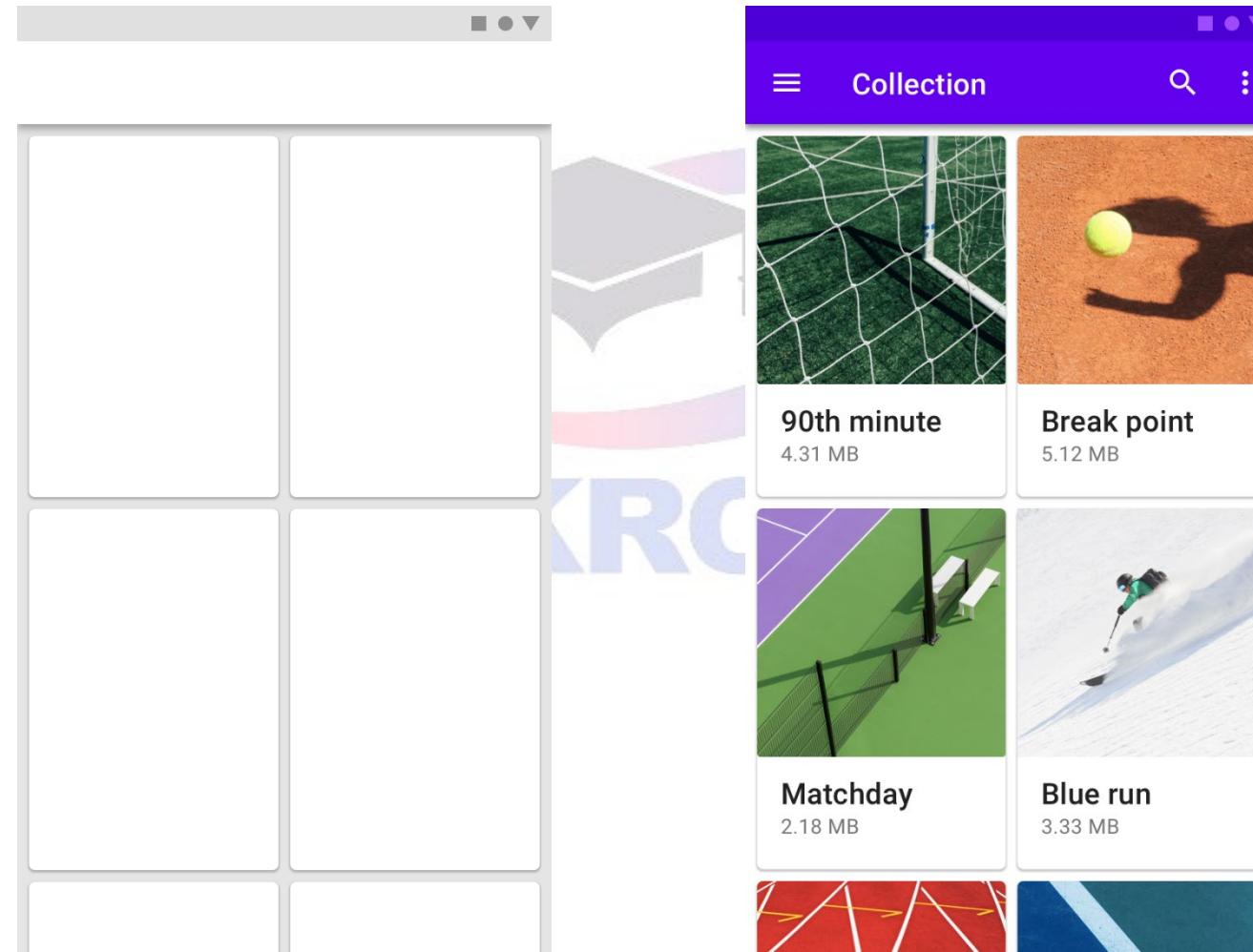
Card Collection

Layout



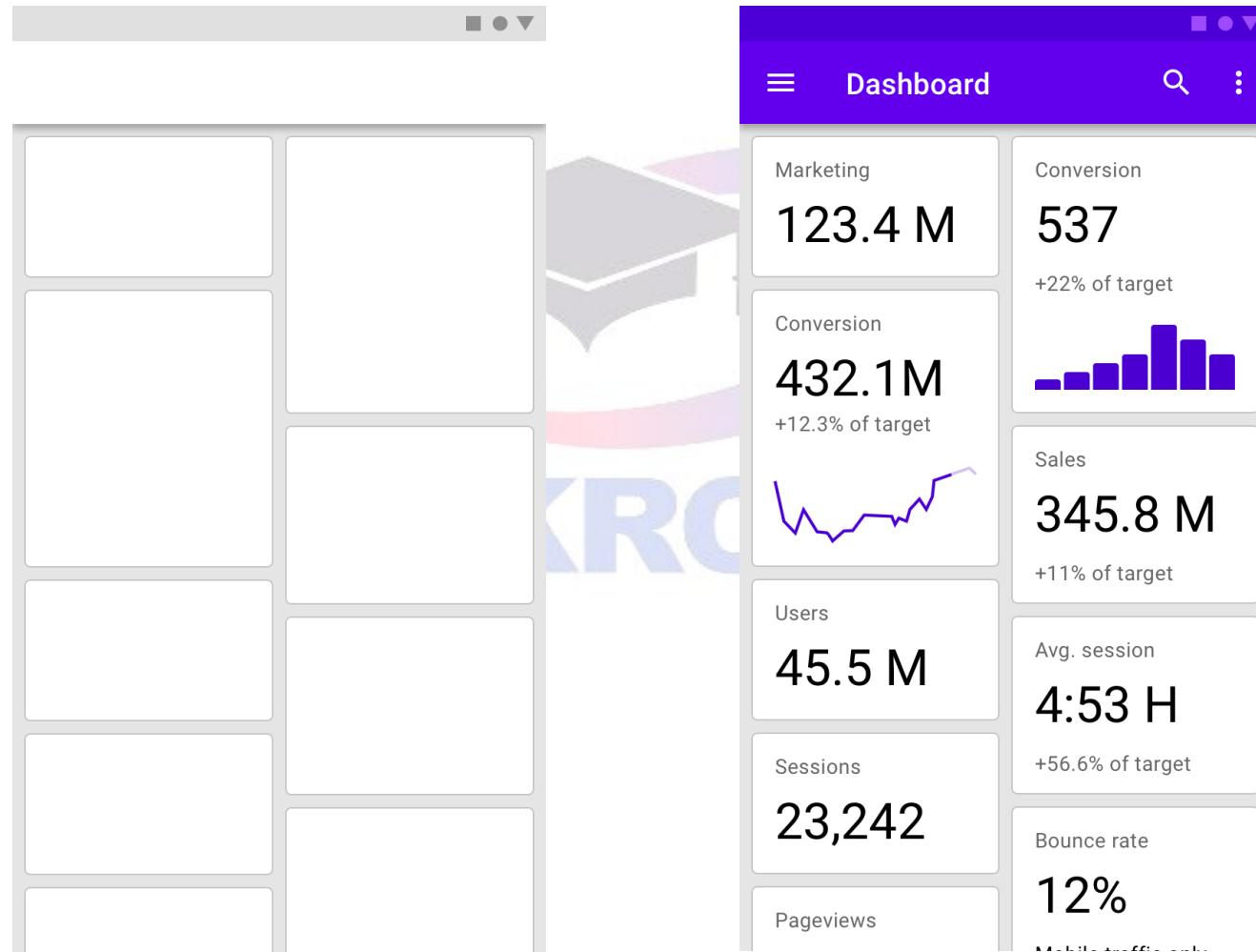
Card Collection - Layout

Scannable



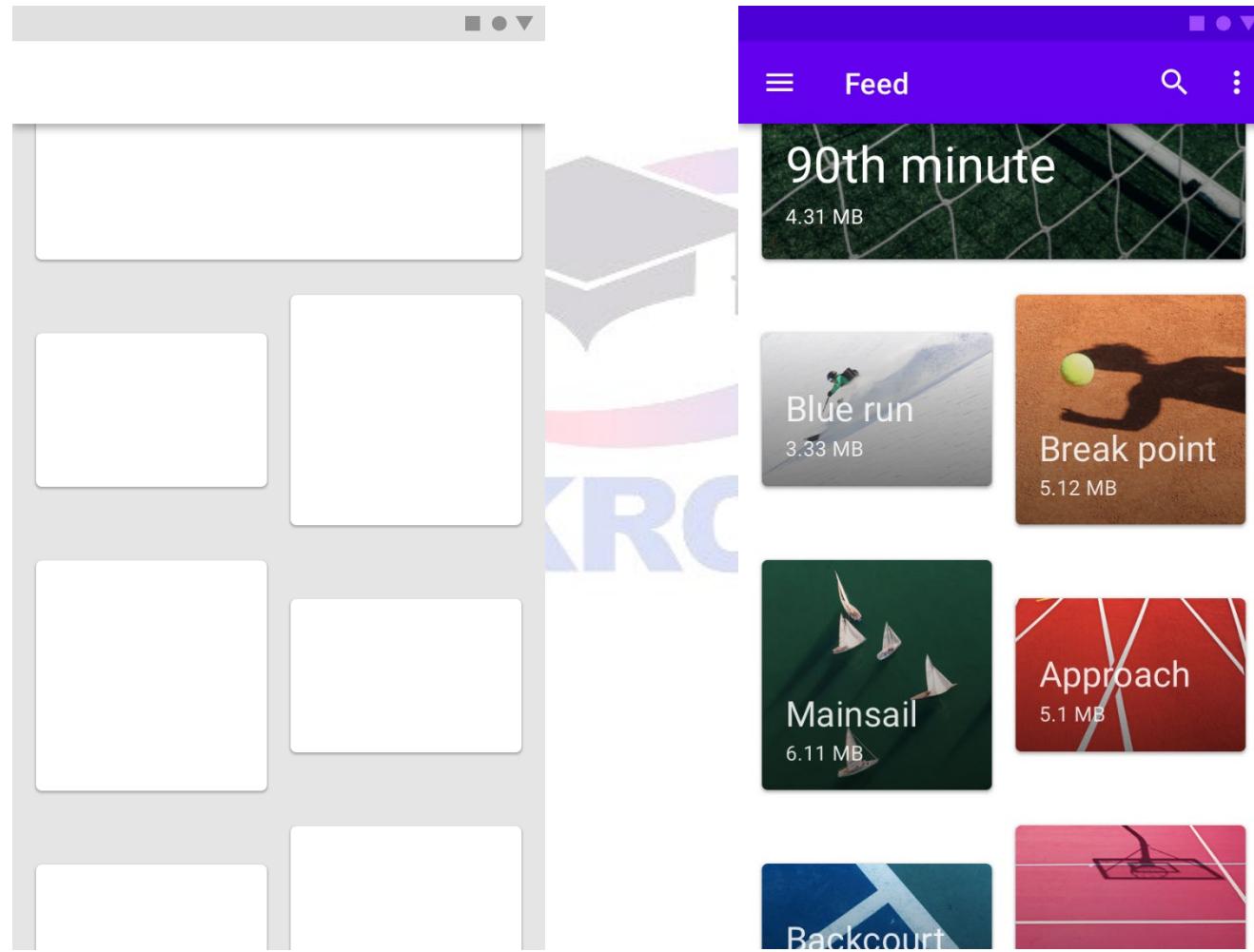
Card Collection - Layout

Scannable



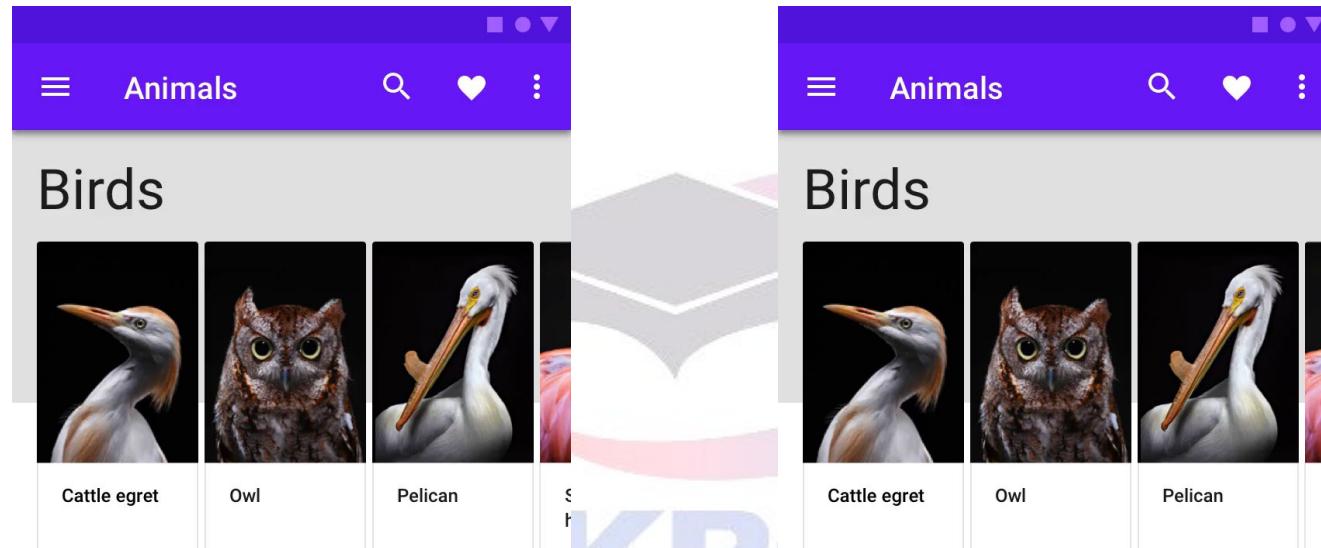
Card Collection - Layout

Distinction



Card Collection - Layout

Contained Collection



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

In the modern world, the killer whale has a cosmopolitan distribution



Cosmopolitan birds
Cosmopolitan distribution

SEE ALL

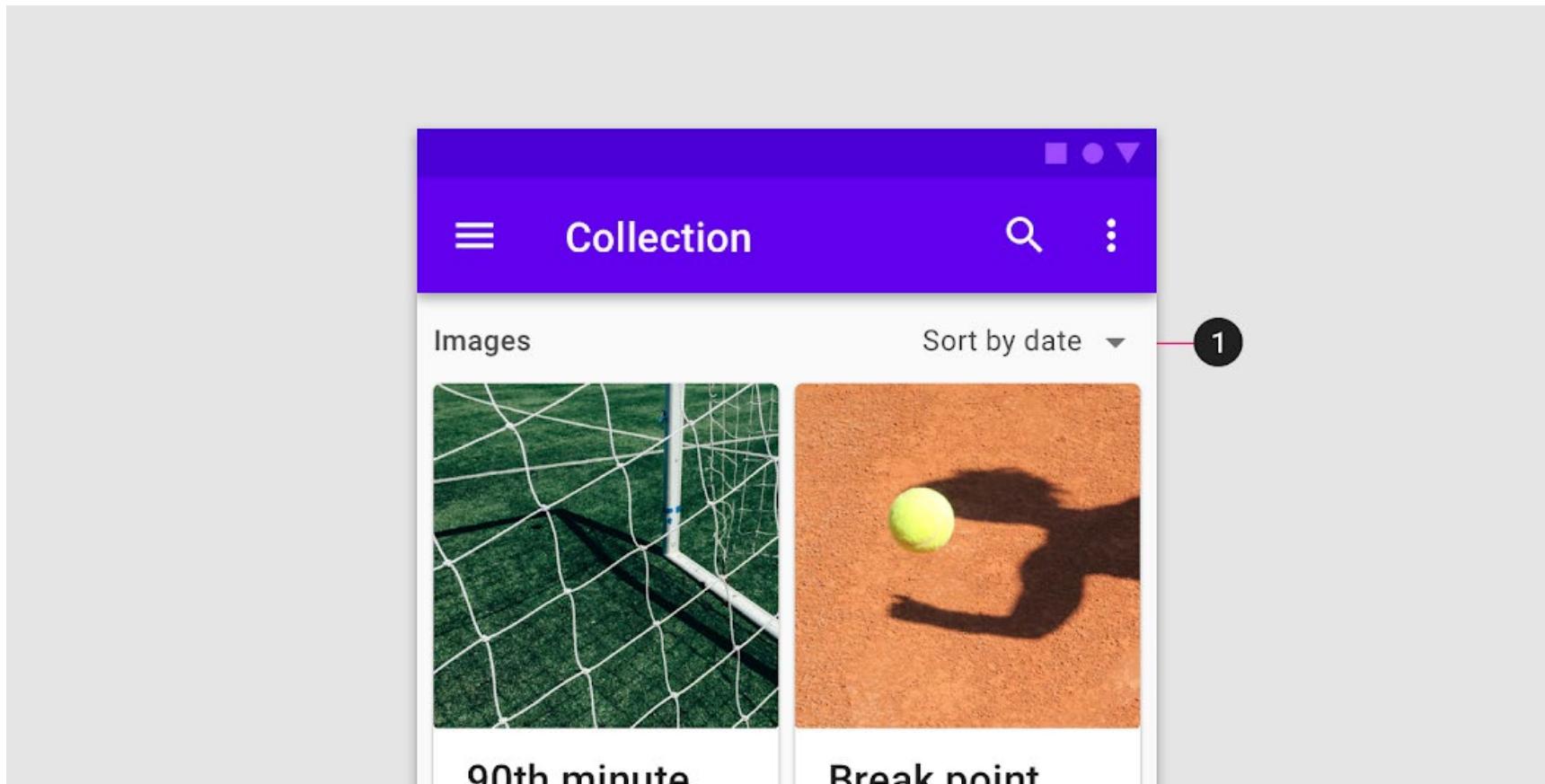
Cosmopolitan distributions can be observed both in extinct and extant species. For example, *Lystrosaurus* was cosmopolitan in the Early Triassic after a mass extinction.

In the modern world, the killer whale has a cosmopolitan distribution



Card Collection – Layout

Filtering and Sorting



Contoh Implementasi Card

The image displays four mobile application screenshots demonstrating various card-based user interface designs:

- Top Left:** A shopping app interface showing a search bar, filters, and a grid of products. A specific product card for a Logitech MX Mechanical Tactile Keyboard Wireless is highlighted, displaying its price (Rp 2.445.000), rating (5.0), and availability (Terjual 14).
- Top Middle:** A productivity article titled "This Ancient Habit Will Maximize Your Focus" by Darius Foroux. The card includes a thumbnail of a person meditating, the title, author, and a snippet: "Our thoughts are often so cluttered by worry and fear that we lose focus, having a mantra can help you get it back."
- Top Right:** A screenshot of the Discord mobile app's "Discover" screen. It features a large central card with the text "LET'S GO!" and an illustration of a person sitting at a desk. Below this are cards for "11 Lesser-Known" and "High-Protein" topics.
- Bottom Right:** A YouTube channel page for "Melawan Pasukan Nazi | RAWAT INGAT #shorts". The card shows a video thumbnail of a character, the title "6月 6日は角巻わためのお誕生日", and engagement metrics like 7.5K likes and 75 comments.

Penerapan di Flutter

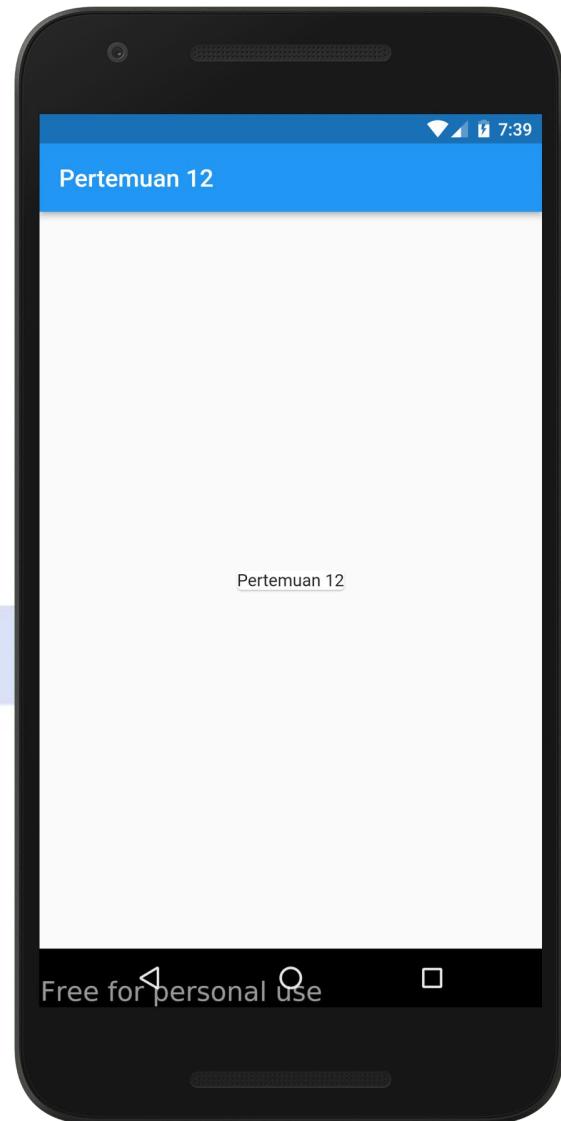


UNIVERSITAS
MIKROSKIL

PRODI. TEKNIK INFORMATIKA (S-1)

Implementasi di Flutter

```
Card(  
    child: Text("Pertemuan 12")  
)
```



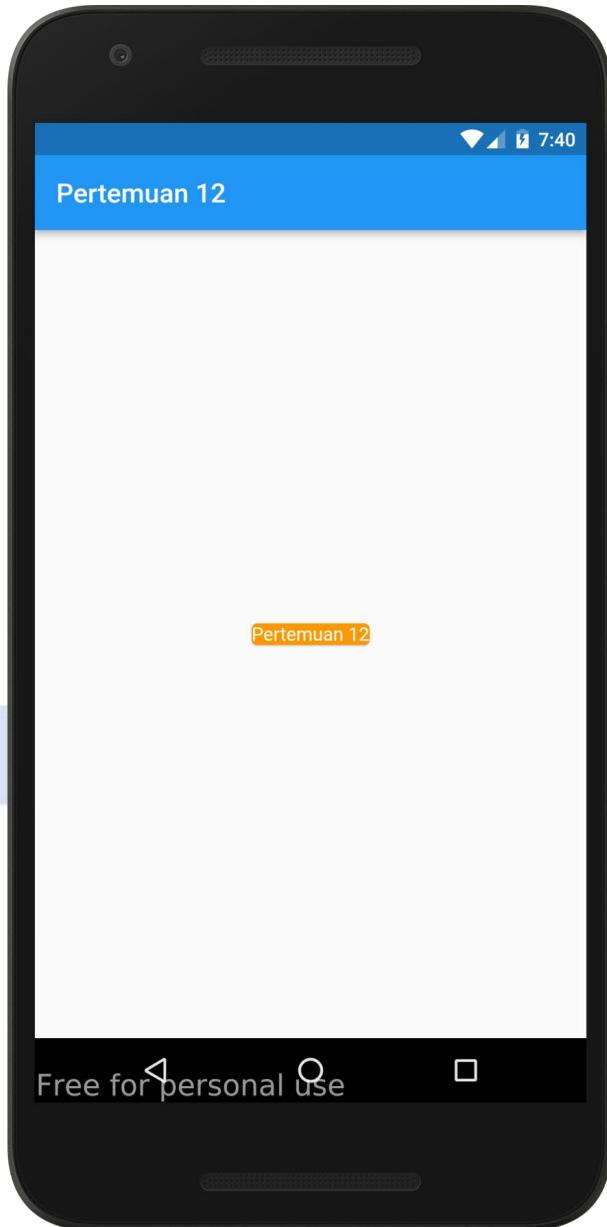
Property di Card

Property	Class/Data Type	Deskripsi
child	Widget?	Widget yang digunakan untuk single child
color	Color?	Warna latar belakang
elevation	double?	Set tinggi elevasi dari card
shadowColor	Color?	Set Warna shadow
shape	ShapeBorder?	Set bentuk dari card
margin	EdgeInsetsGeometry?	Dipanggil saat pengguna memilih nilai dari menu popup yang dibuat oleh tombol

Property lain dapat dilihat [disini](#) dan [disini](#)

color

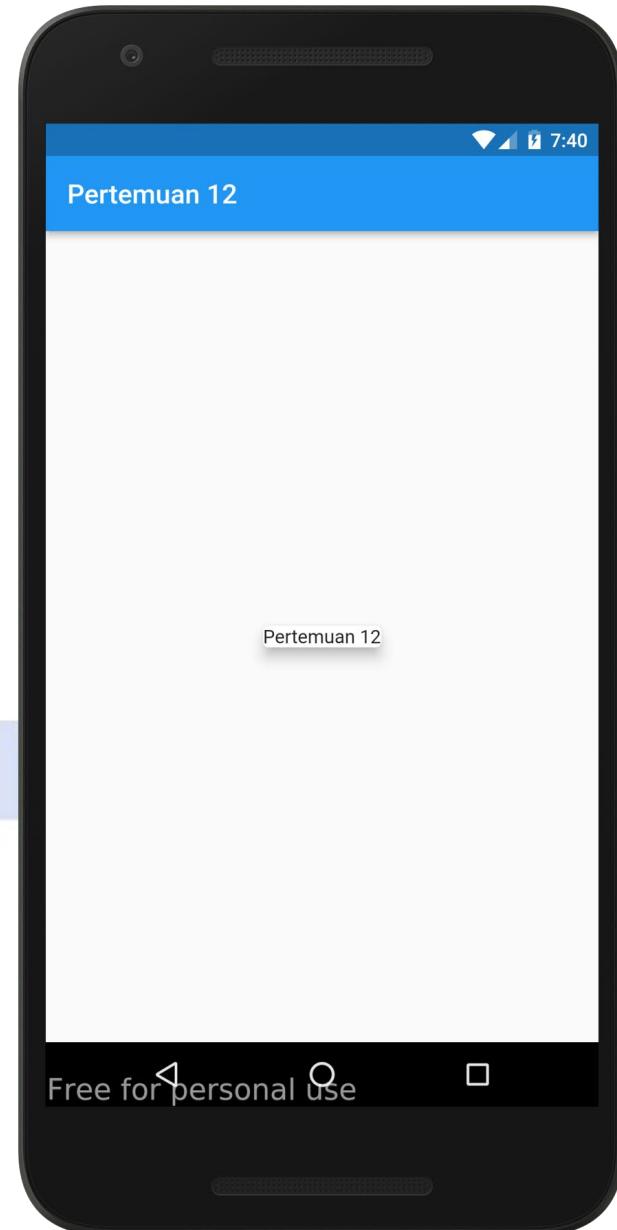
```
Card(  
    child: Text(  
        "Pertemuan 12",  
        style: TextStyle(color: Colors.white)  
    ),  
    color: Colors.orange,  
)
```



Free for personal use

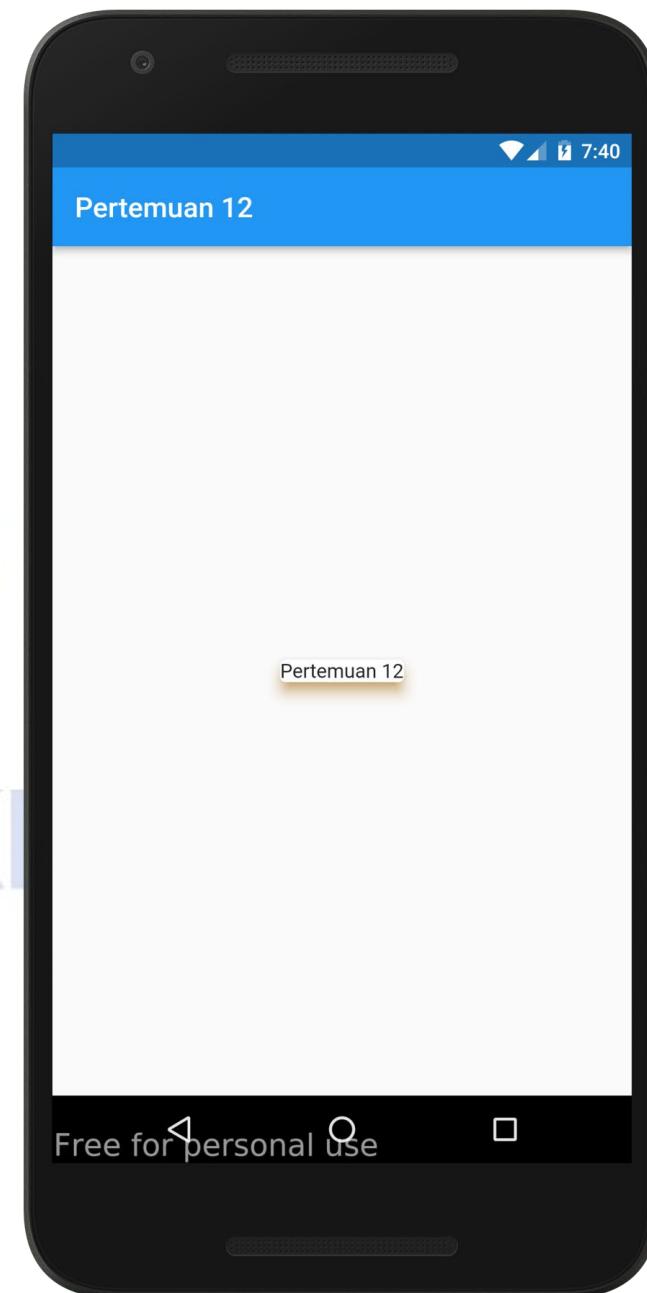
elevation

```
Card(  
    child: Text("Pertemuan 12"),  
    elevation: 8,  
)
```



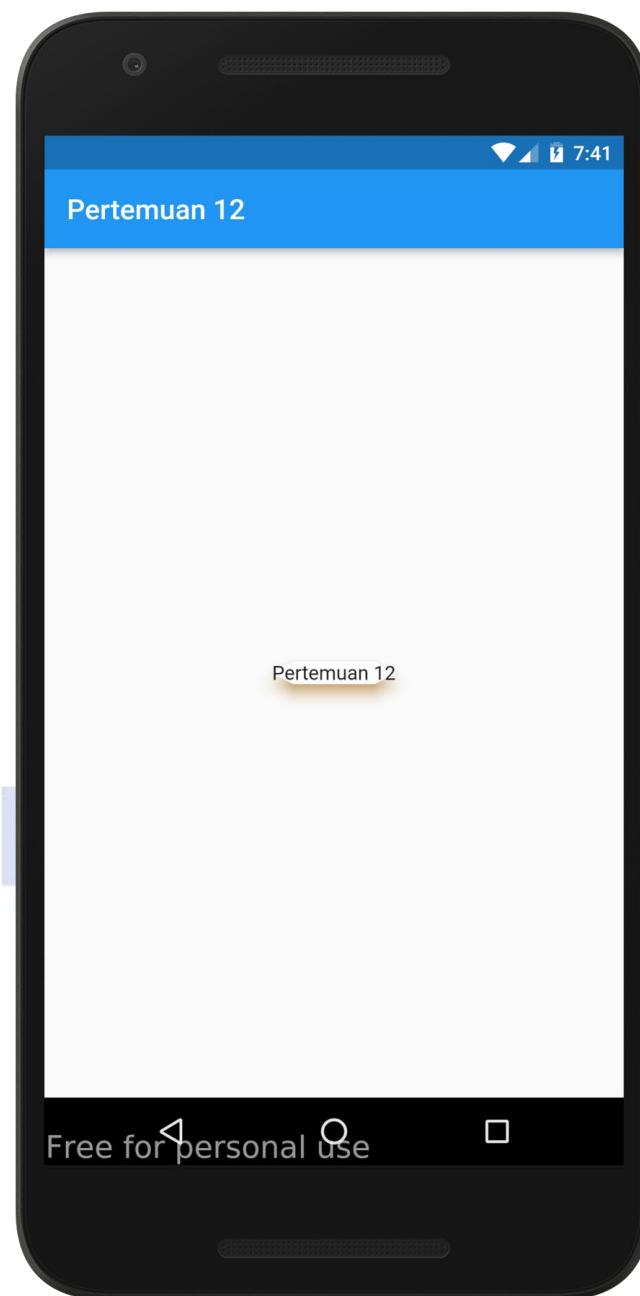
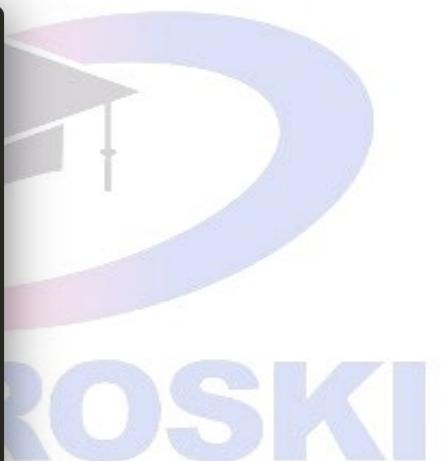
shadowColor

```
Card(  
    child: Text("Pertemuan 12"),  
    elevation: 8,  
    shadowColor: Colors.orange,  
)
```



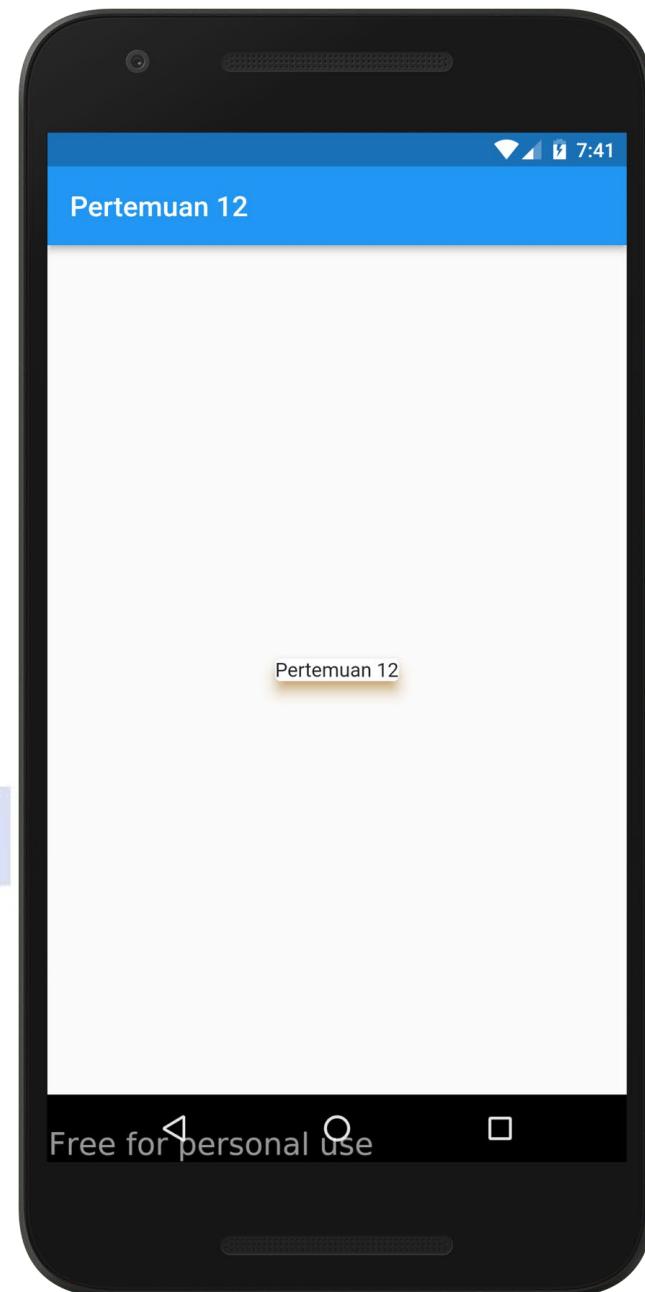
shape

```
Card(  
    child: Text("Pertemuan 12"),  
    elevation: 8,  
    shadowColor: Colors.orange,  
    shape: BeveledRectangleBorder(  
        borderRadius: BorderRadius.circular(15)  
    ),  
)
```



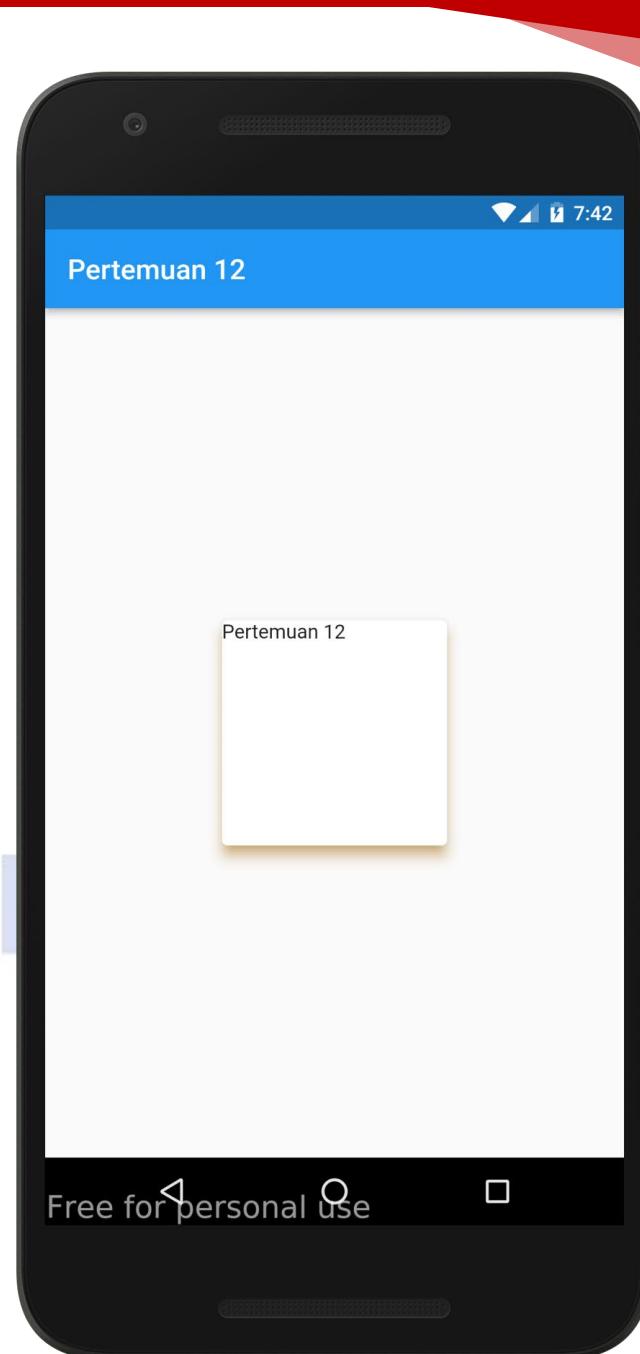
margin

```
Card(  
    child: Text("Pertemuan 12"),  
    elevation: 8,  
    shadowColor: Colors.orange,  
    margin: EdgeInsets.all(20),  
)
```



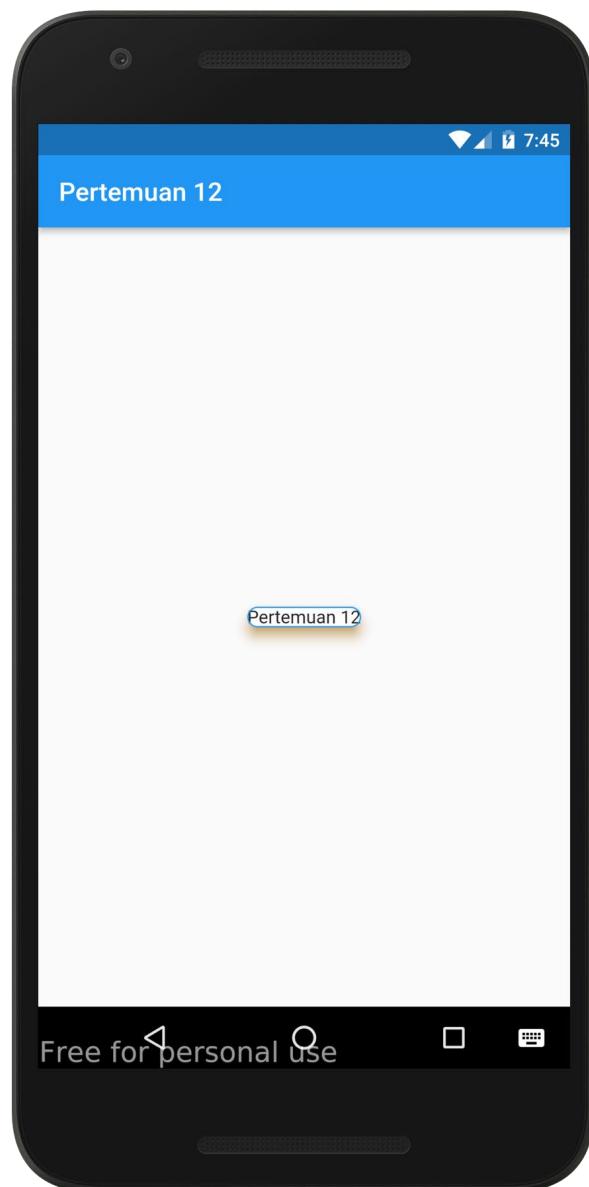
Height and Width

```
Container(  
    height: 200,  
    width: 200,  
    child: Card(  
        child: Text("Pertemuan 12"),  
        elevation: 8,  
        shadowColor: Colors.orange,  
        margin: EdgeInsets.all(20),  
    ),  
)
```



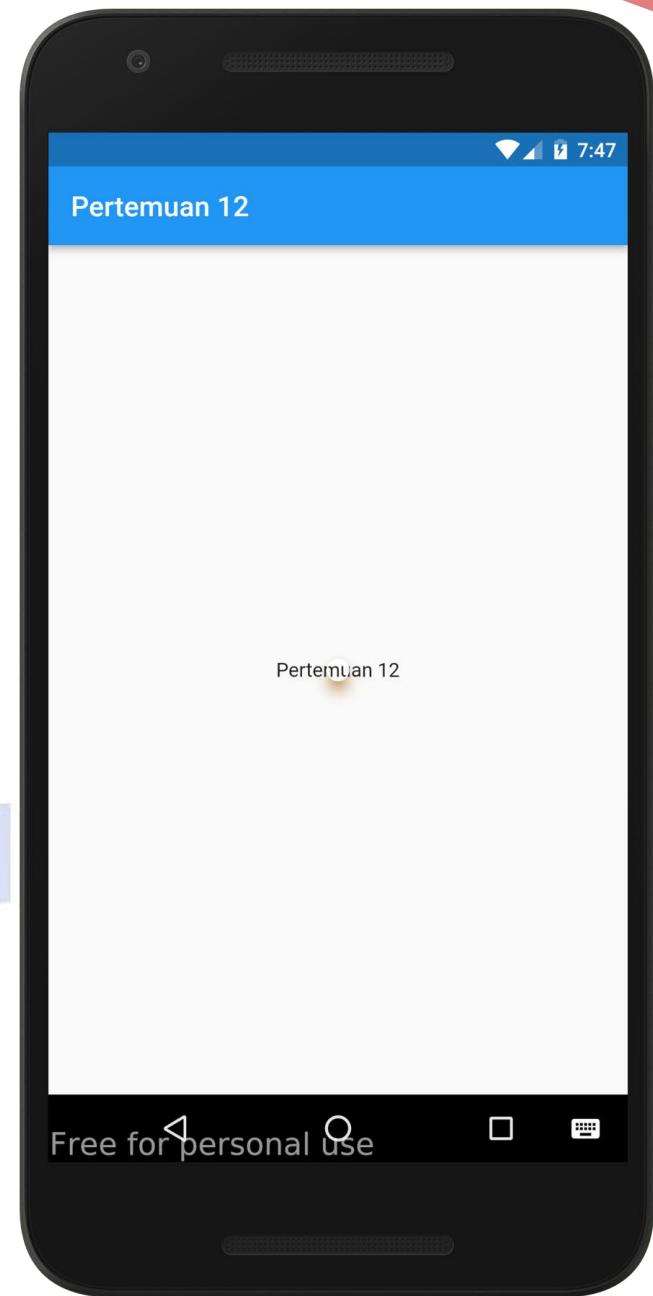
border and border color

```
Card(  
    child: Text("Pertemuan 12"),  
    elevation: 8,  
    shadowColor: Colors.orange,  
    margin: EdgeInsets.all(20),  
    shape: OutlineInputBorder(  
        borderRadius: BorderRadius.circular(10),  
        borderSide: BorderSide(color: Colors.blue, width: 1)),  
)
```



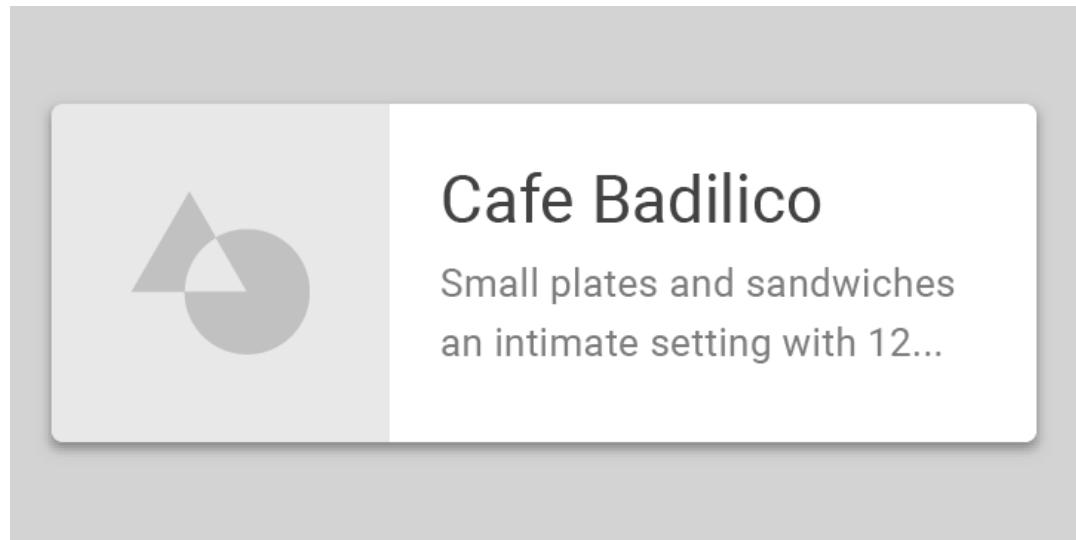
circular card

```
Card(  
    child: Container(  
        height: 160,  
        width: 160,  
        child: Center(  
            child: Text("Pertemuan 12")  
        ),  
    ),  
    elevation: 8,  
    shadowColor: Colors.orange,  
    margin: EdgeInsets.all(20),  
    shape: CircleBorder(  
        side: BorderSide(width: 1, color: Colors.white),  
    ),  
)
```



Free for personal use

Komponen dalam Mendesain Aplikasi Part. 9



Cards



ListsTile

ListsTitle



UNIVERSITAS
MIKROSKIL

PRODI. TEKNIK INFORMATIKA (S-1)

ListTile

<https://www.youtube.com/watch?v=l8dj0yPBvgQ>



ListTile

- Suatu Widget yang dapat menampung satu hingga 3 baris teks
- Bisa juga menampung widget lain seperti checkbox, radio button, dll
- ListTile bisa di implementasikan di Widget **Card**, maupun widget layout, seperti:
 - **ListView**
 - **Row**
 - **Column**
 - **Expanded**
 - **Center**
 - **Dan lainnya**



Contoh Implementasi Pada ListView

```
ListView(  
  children: [  
    ListTile(  
      title: Text('List item 1'),  
      isThreeLine: true,  
      subtitle: Text('Secondary text\nTertiary text'),  
      leading: Icon(Icons.label),  
      trailing: Checkbox(  
        value: false,  
        onChanged: (value) {  
          // Update value.  
        },  
      ),  
    ),  
  ],  
)
```



Property di ListTile

Property	Class/Data Type	Deskripsi
leading	Widget	Widget yang ditampilkan di bagian depan dari Title / Subtitle
title	Widget	Widget yang ditampilkan di title
subtitle	Widget	Widget yang ditampilkan di bawah title
trailing	Widget	Widget yang ditampilkan di sebelah kanan dari Title
isThreeLine	bool	Jika true, subtitle dapat di wrap menjadi 2 baris (default: false)
dense	bool	Set text menjadi lebih kecil (default: false)
selected	bool	Set nilai apakah listtile terpilih atau tidak
enabled	bool	Set nilai apakah ListTile enable atau tidak (default: true)

Property lain dapat dilihat [disini](#) dan [disini](#)

Property di ListTile

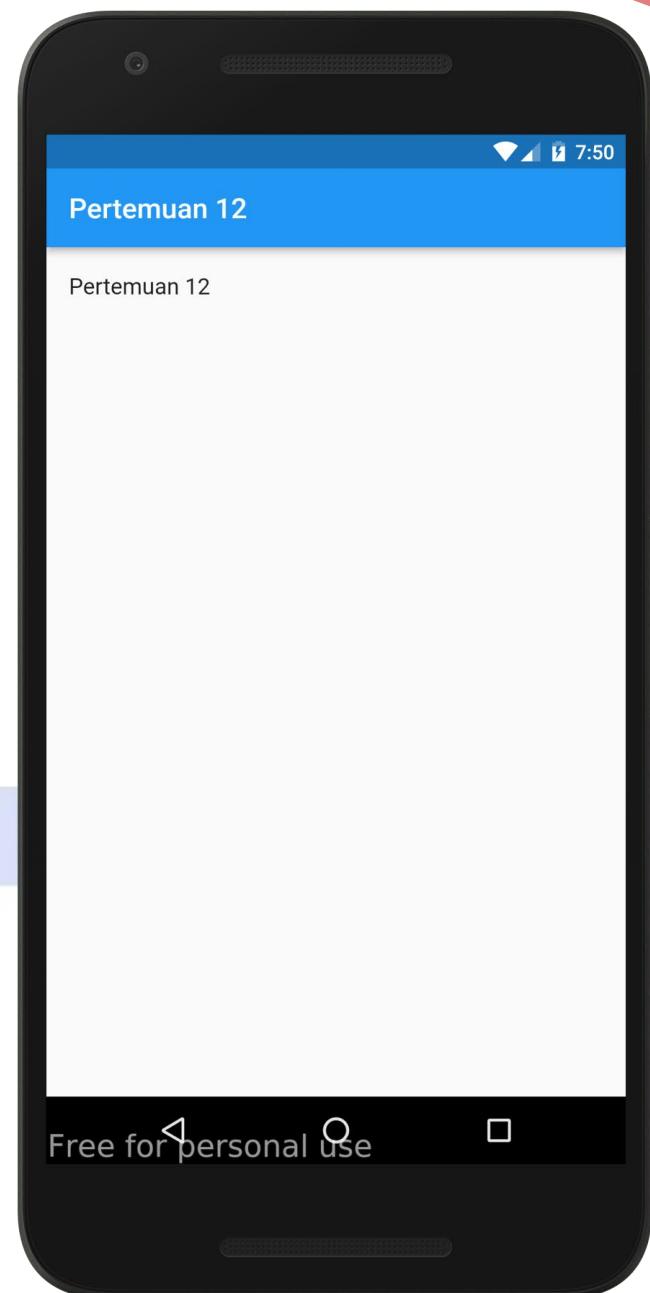
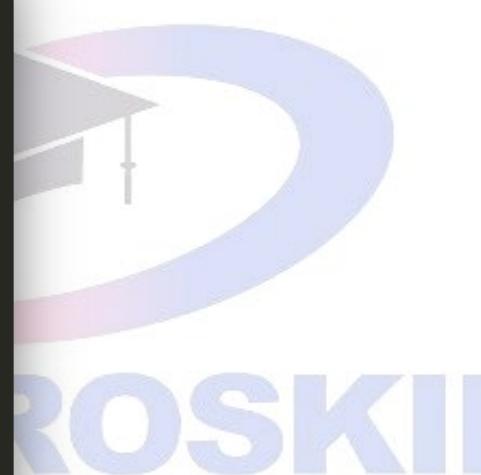
Property	Class/Data Type	Deskripsi
shape	ShapeBorder	Set bentuk dari ListTile
tileColor	Color	Set warna dari ListTile
selectedTileColor	Color	Set warna icon dan text jika selected pada tile True
contentPadding	EdgeInsetsGeometry	Set Padding pada isi dari ListTile
onTap	GestureTapCallback	Jika Tile diketuk, akan menjalankan suatu fungsi

MIKROSKIL

Property lain dapat dilihat [disini](#) dan [disini](#)

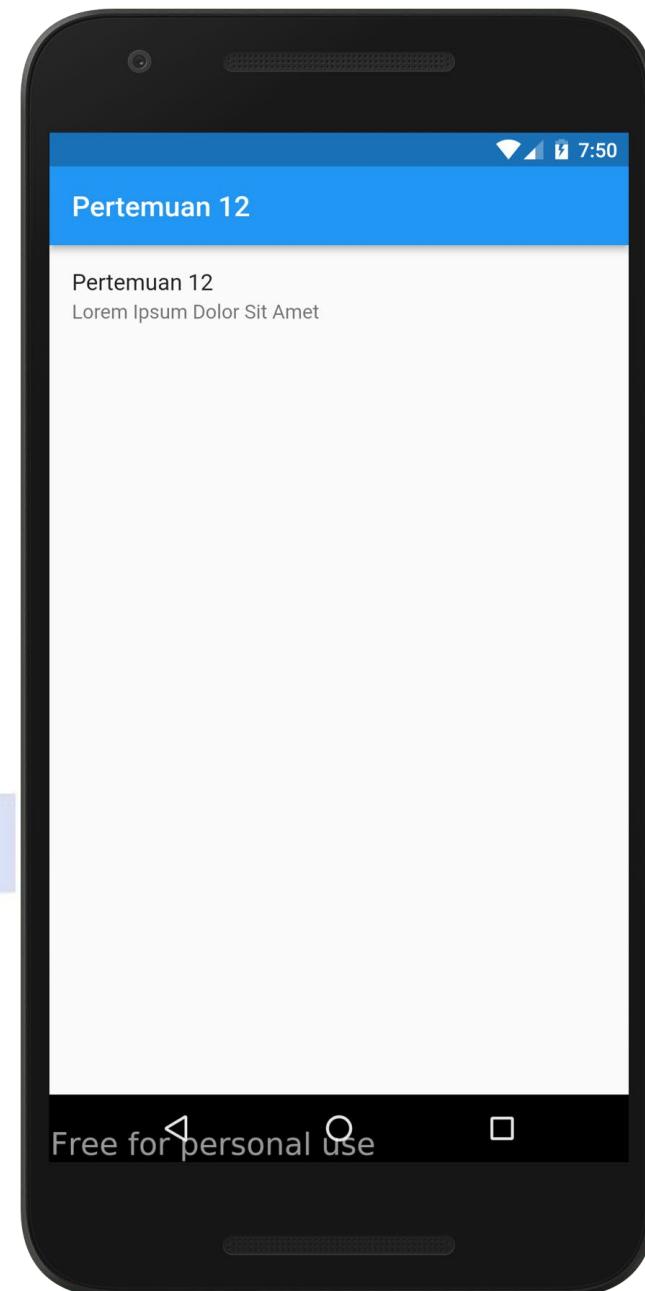
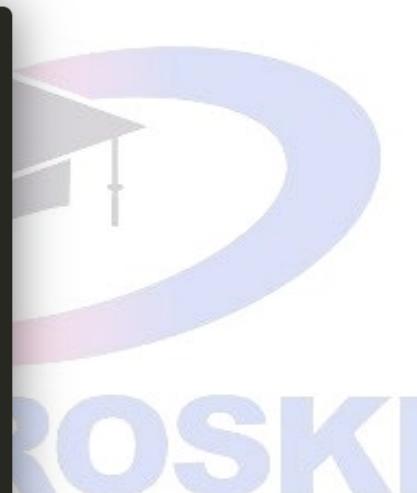
title

```
 ListTile(  
    title: Text("Pertemuan 12"),  
    selectedTileColor: Colors.orange[400],  
    onTap: () {  
        setState(() {  
  
        });  
    },  
)
```



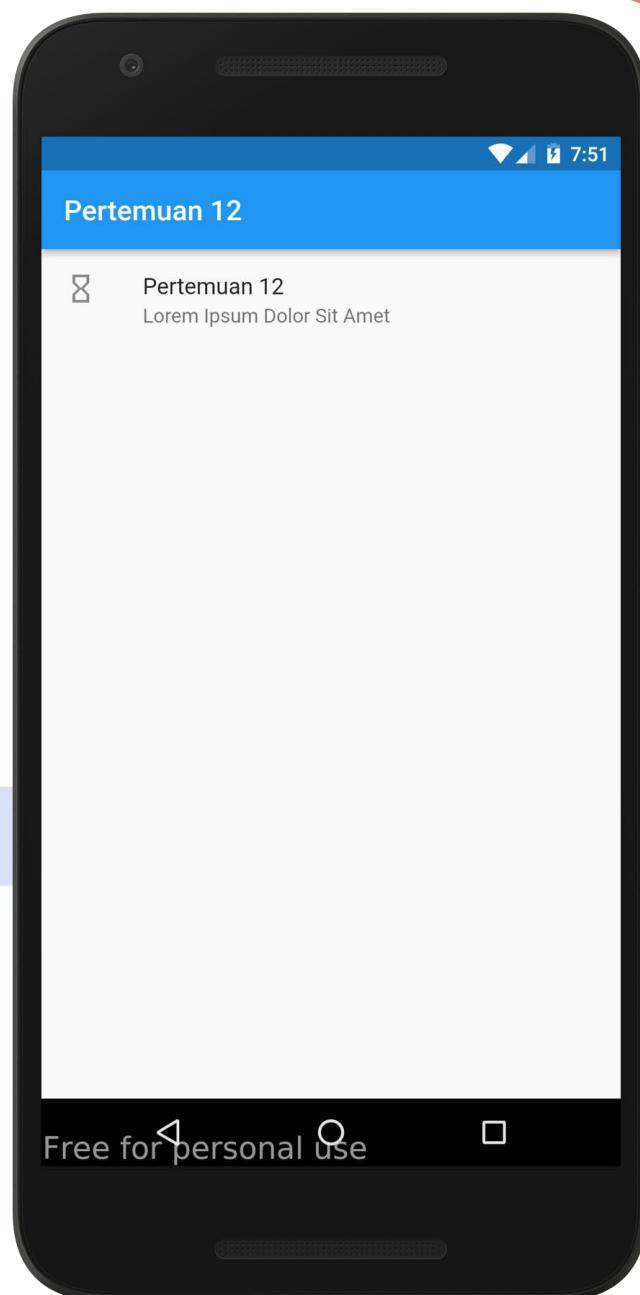
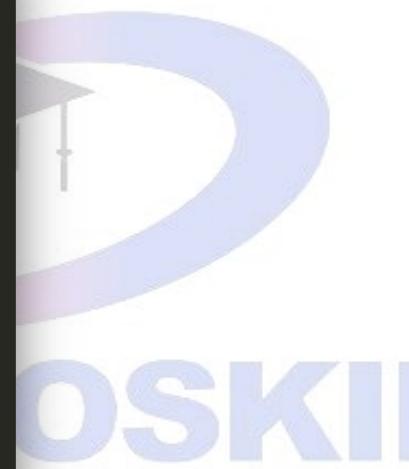
subtitle

```
 ListTile(  
    title: Text("Pertemuan 12"),  
    subtitle: Text("Lorep Ipsum Dolor Sit Amet"),  
    selectedTileColor: Colors.orange[400],  
    onTap: () {  
        setState(() {  
  
        });  
    },  
)
```



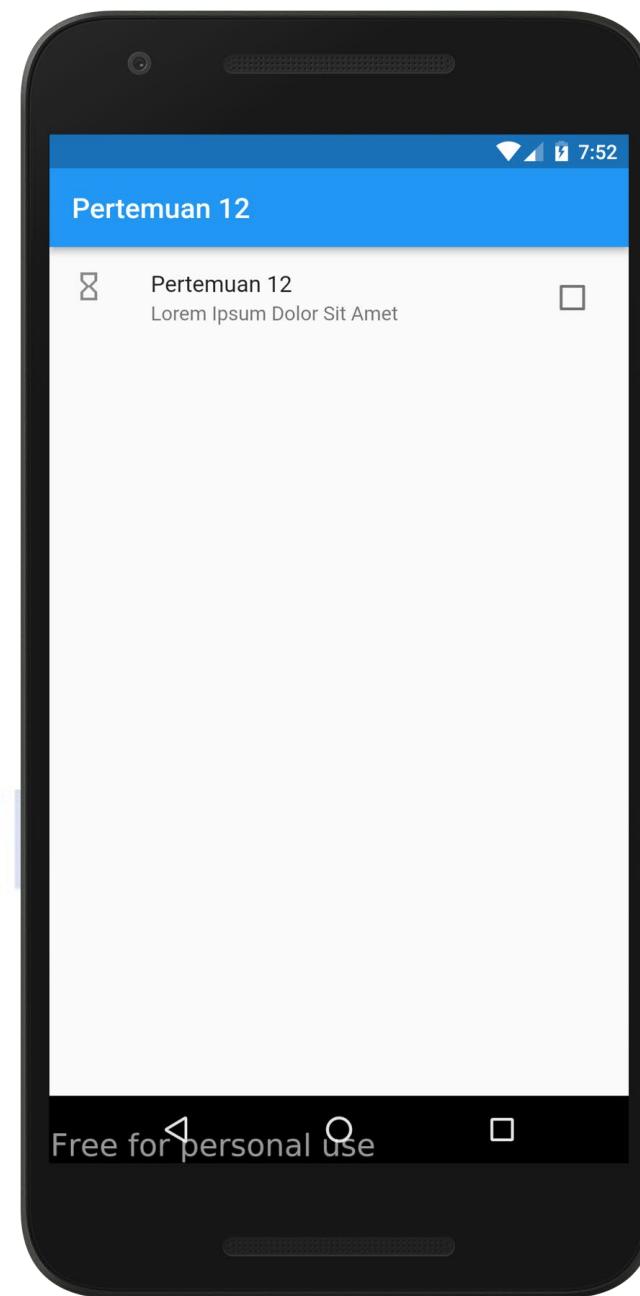
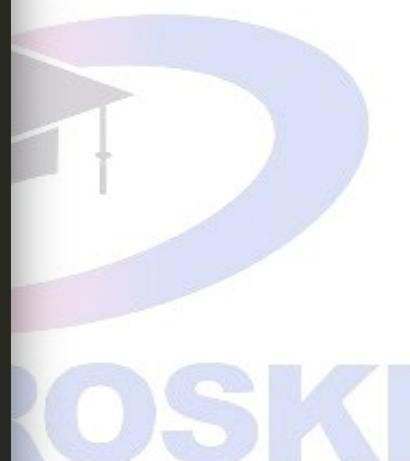
leading

```
 ListTile(  
    title: Text("Pertemuan 12"),  
    subtitle: Text("Lorep Ipsum Dolor Sit Amet"),  
    selectedTileColor: Colors.orange[400],  
    leading: Icon(Icons.hourglass_empty),  
    onTap: () {  
        setState(() {  
  
        });  
    },  
)
```



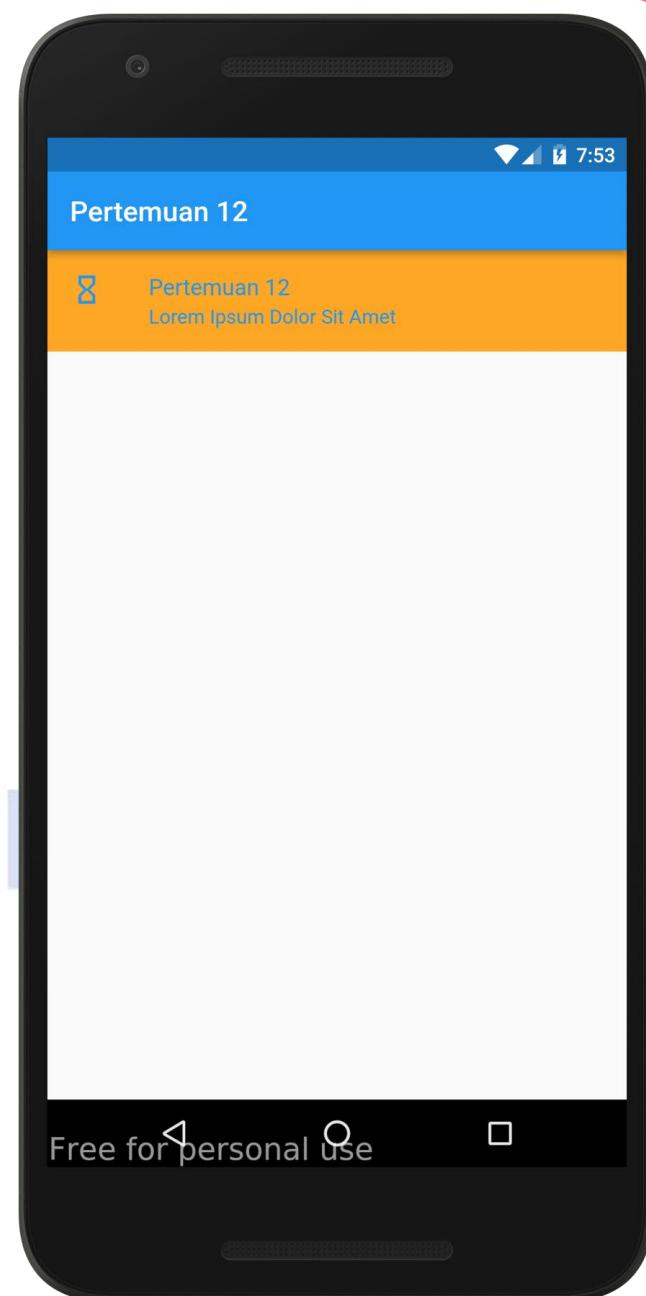
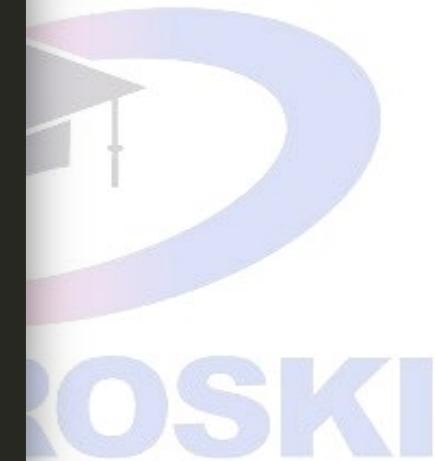
trailing

```
 ListTile(  
    title: Text("Pertemuan 12"),  
    subtitle: Text("Lorep Ipsum Dolor Sit Amet"),  
    selectedTileColor: Colors.orange[400],  
    leading: Icon(Icons.hourglass_empty),  
    trailing: Checkbox(  
        value: false,  
        onChanged: (value) { },  
    ),  
    onTap: () {  
        setState(() {  
  
        });  
    },  
)
```



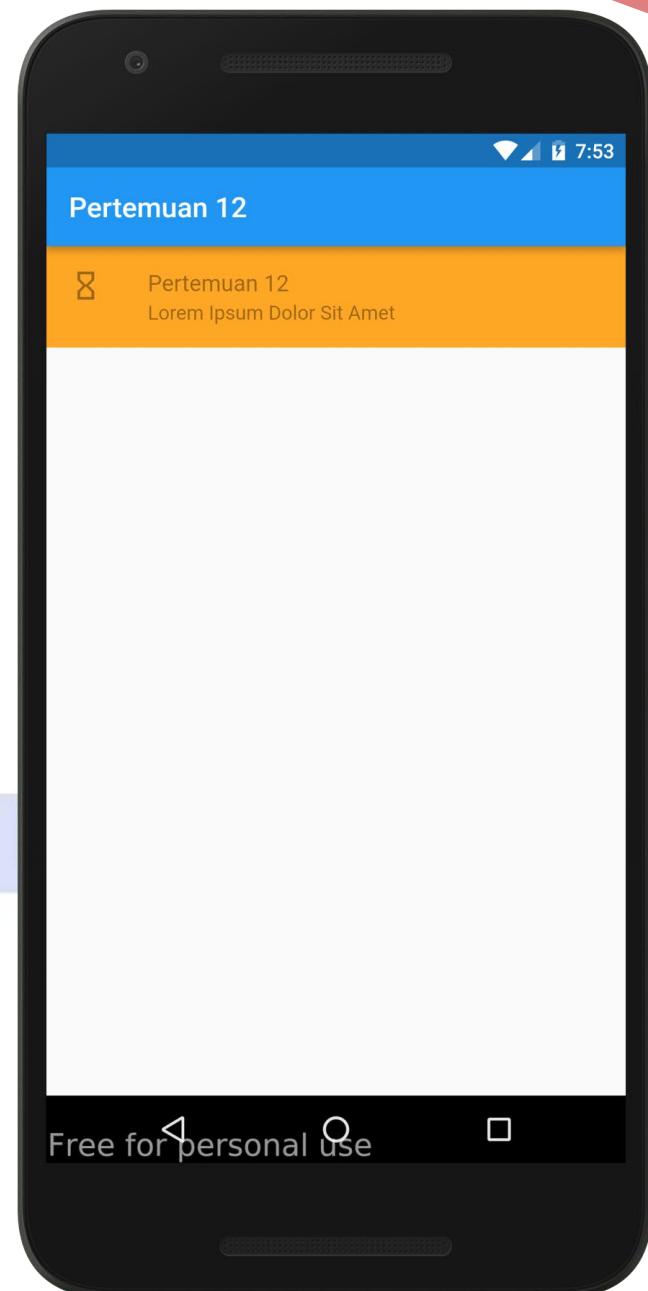
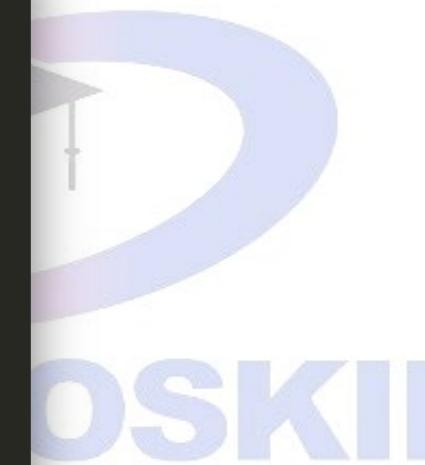
selected

```
● ● ●  
  
ListTile(  
    title: Text("Pertemuan 12"),  
    subtitle: Text("Lorep Ipsum Dolor Sit Amet"),  
    selectedTileColor: Colors.orange[400],  
    leading: Icon(Icons.hourglass_empty),  
    selected: true,  
    onTap: () {  
        setState(() {  
  
        });  
    },  
)
```



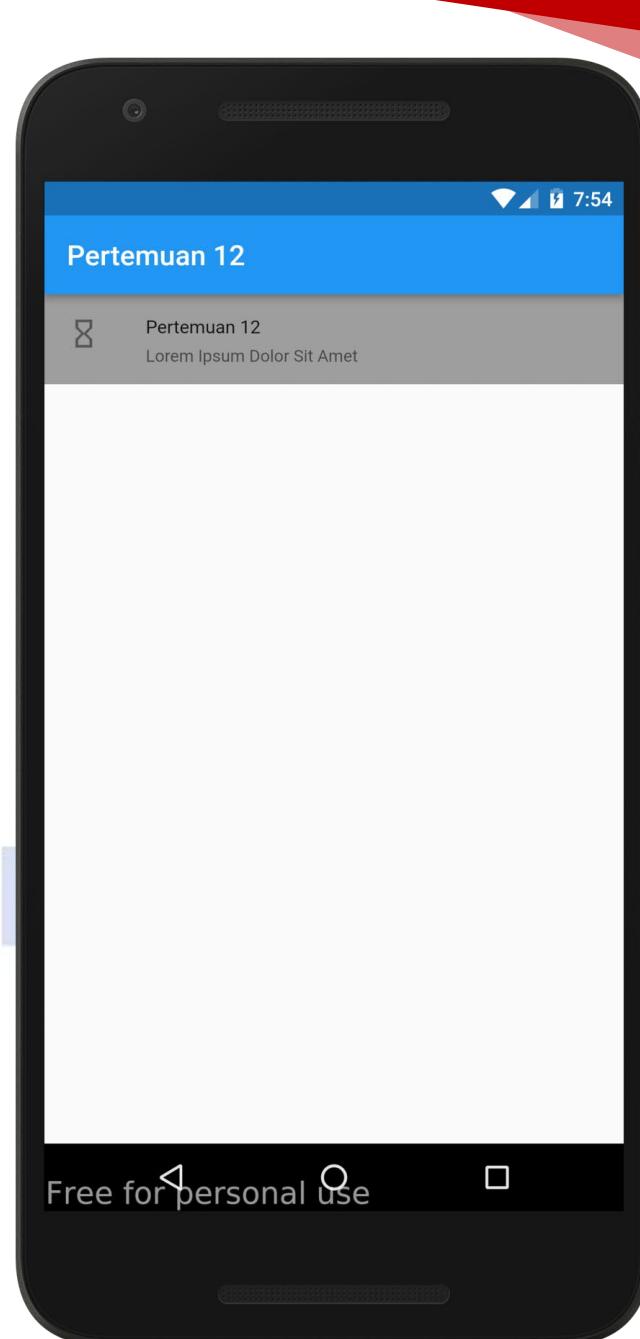
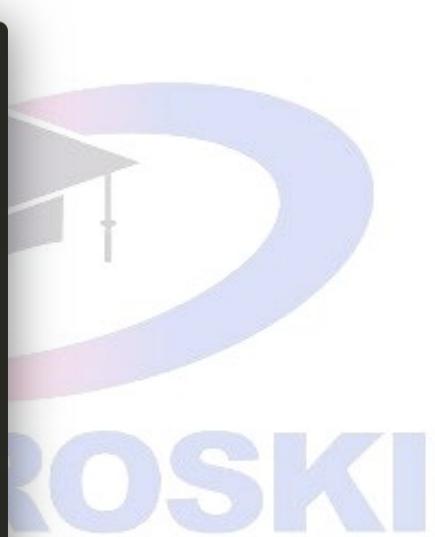
enabled

```
 ListTile(  
    title: Text("Pertemuan 12"),  
    subtitle: Text("Lorep Ipsum Dolor Sit Amet"),  
    selectedTileColor: Colors.orange[400],  
    leading: Icon(Icons.hourglass_empty),  
    selected: true,  
    enabled: false,  
    onTap: () {  
        setState(() {  
              
        });  
    },  
)
```



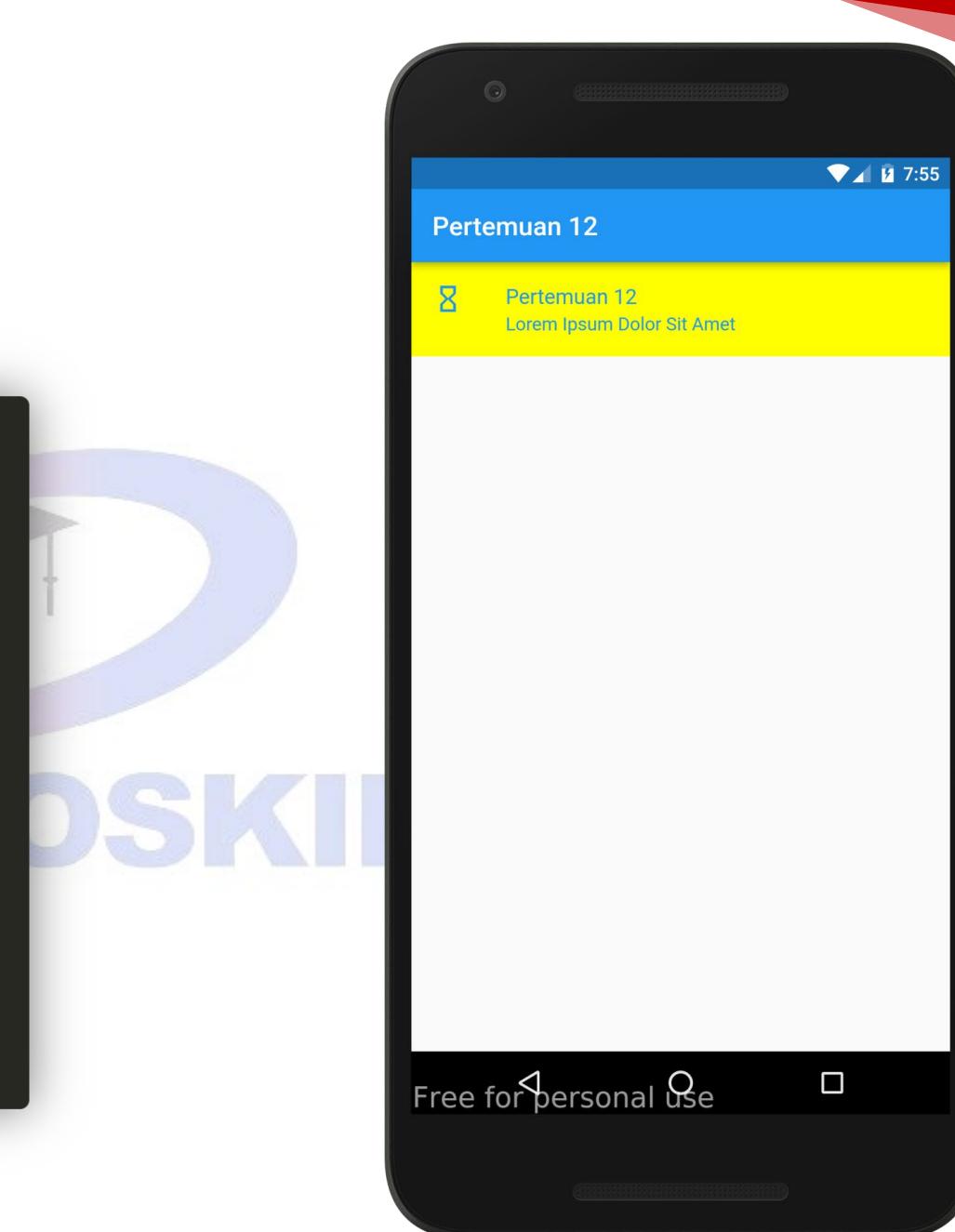
tileColor

```
ListTile(  
    title: Text("Pertemuan 12"),  
    subtitle: Text("Lorep Ipsum Dolor Sit Amet"),  
    selectedTileColor: Colors.orange[400],  
    leading: Icon(Icons.hourglass_empty),  
    dense: true,  
    tileColor: Colors.grey,  
    onTap: () {  
        setState(() {  
  
        });  
    },  
)
```



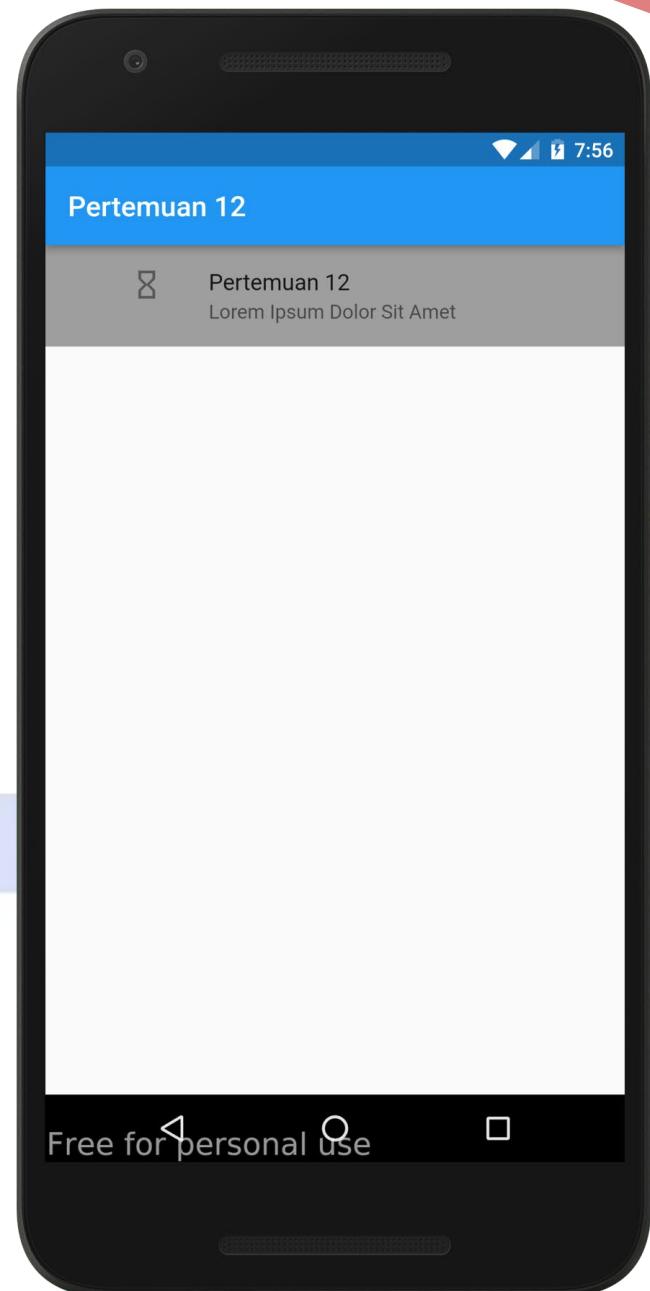
selectedTileColor

```
 ListTile(  
    title: Text("Pertemuan 12"),  
    subtitle: Text("Lorep Ipsum Dolor Sit Amet"),  
    selectedTileColor: Colors.orange[400],  
    leading: Icon(Icons.hourglass_empty),  
    tileColor: Colors.grey,  
    selectedTileColor: Colors.yellowAccent,  
    selected: true,  
    onTap: () {  
        setState(() {  
  
    });  
},  
)
```



contentPadding

```
● ● ●  
ListTile(  
    title: Text("Pertemuan 12"),  
    subtitle: Text("Lorep Ipsum Dolor Sit Amet"),  
    selectedTileColor: Colors.orange[400],  
    leading: Icon(Icons.hourglass_empty),  
    tileColor: Colors.grey,  
    contentPadding: EdgeInsets.symmetric(horizontal: 60),  
    onTap: () {  
        setState(() {  
  
        });  
    },  
)
```

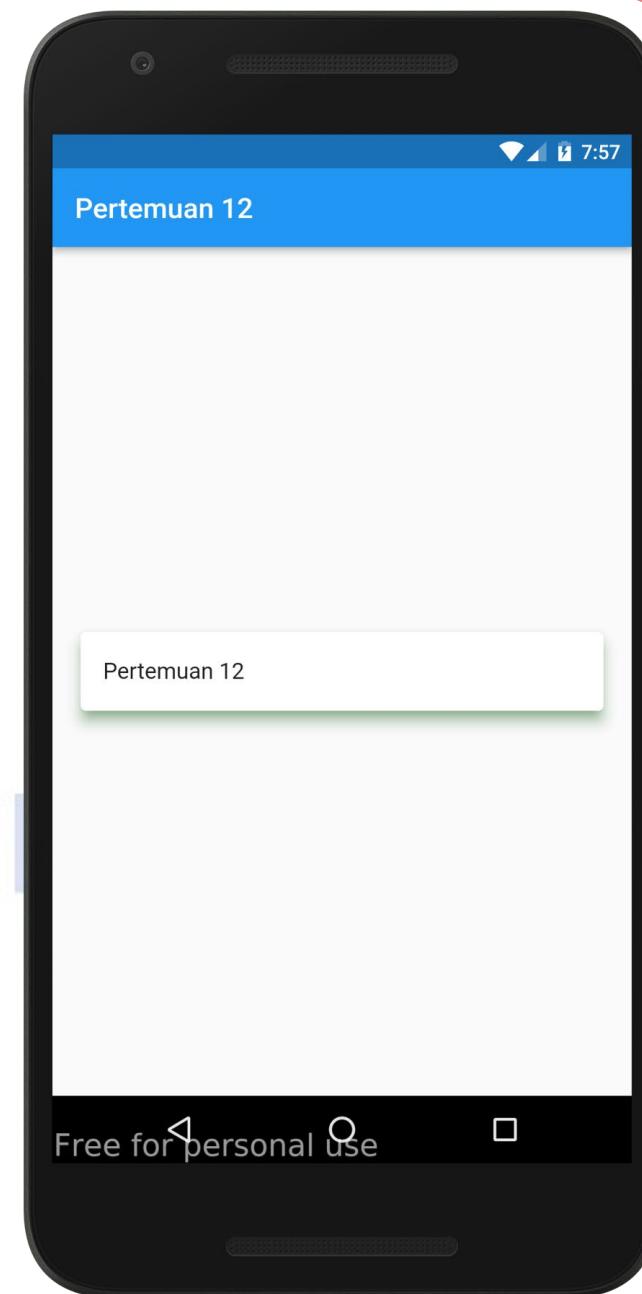


onTap

```
ListTile(  
    title: Text("Pertemuan 12"),  
    subtitle: Text("Lorep Ipsum Dolor Sit Amet"),  
    onTap: () {  
        setState(() {  
  
        });  
    },  
)
```

ListTile with Card

```
Card(  
    child: ListTile(  
        title: Text("Pertemuan 12"),  
    ),  
    elevation: 8,  
    shadowColor: Colors.green,  
    margin: EdgeInsets.all(20),  
)
```



Terima Kasih



UNIVERSITAS
MIKROSKIL

PRODI. TEKNIK INFORMATIKA (S-1)