TUGAS 02 WIDGET FLUTTER



Praktikum Pemrograman Berbasis Web - A

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PROGRAM STUDI S1 TEKNIK INFORMATIKA

FAKULTAS TEKNIK

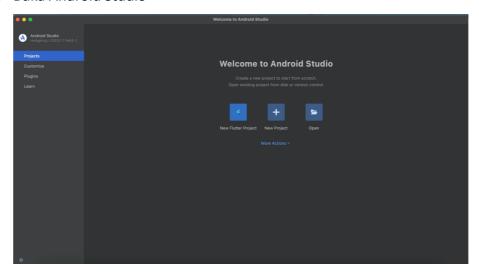
UNIVERSITAS PANCASILA

JAKARTA

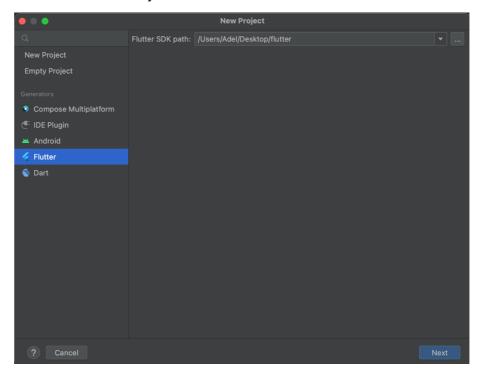
2024

A. Build a Flutter layout

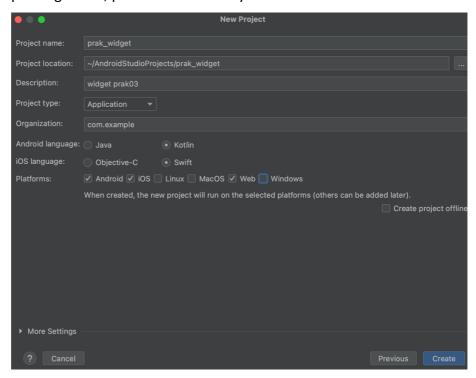
- 1. Akses web https://docs.flutter.dev/ui/layout/tutorial
- 2. Buka Android Studio



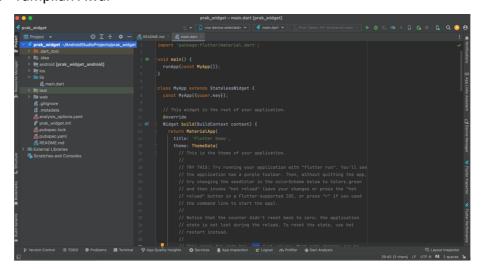
3. Pilih New Flutter Project -> Flutter -> Next



4. Isi form untuk nama project, tempat project, type, bahasa pemrograman, platforms dan lainnya -> Create



5. Tampilan Awal



6. Create the app base code

Import 'package:flutter/material.dart';

```
void main() => runApp(const MyApp());
class MyApp extends StatelessWidget {
 const MyApp({super.key});
 @override
 Widget build(BuildContext context) {
  const String appTitle = 'Flutter layout demo';
  return MaterialApp(
   title: appTitle,
   home: Scaffold(
    appBar: AppBar(
     title: const Text(appTitle),
    ),
    body: const Center(
     child: Text('Hello World'),
    ),
   ),
  );
 }
```

B. Add the Title Section

1. Add the TitleSection Widget

```
class TitleSection extends StatelessWidget {
  const TitleSection({
    super.key,
    required this.name,
    required this.location,
  });
```

```
final String name;
final String location;
@override
Widget build(BuildContext context) {
 return Padding(
  padding: const EdgeInsets.all(32),
  child: Row(
   children: [
    Expanded(
     /*1*/
     child: Column(
      crossAxisAlignment: CrossAxisAlignment.start,
      children: [
       /*2*/
       Padding(
        padding: const EdgeInsets.only(bottom: 8),
        child: Text(
          name,
          style: const TextStyle(
           fontWeight: FontWeight.bold,
          ),
        ),
       ),
       Text(
        location,
        style: TextStyle(
          color: Colors.grey[500],
        ),
       ),
```

```
],
),
),
/*3*/
Icon(
Icons.star,
color: Colors.red[500],
),
const Text('41'),
],
),
);
}
```

2. Change the app body to a scrolling view

3. Update the app to display the section

```
TitleSection(
name: 'Oeschinen Lake Campground',
location: 'Kandersteg, Switzerland',
),
```

- C. Add the Button Section
 - 1. Add the ButtonSection Widget

```
class ButtonSection extends StatelessWidget {
  const ButtonSection({super.key});
```

```
@override
Widget build(BuildContext context) {
  final Color color = Theme.of(context).primaryColor;
// ...
}
```

2. Create a widget to make buttons

```
class ButtonSection extends StatelessWidget {
 const ButtonSection({super.key});
// ...
}
class ButtonWithText extends StatelessWidget {
 const ButtonWithText({
  super.key,
  required this.color,
  required this.icon,
  required this.label,
 });
 final Color color;
 final IconData icon;
 final String label;
 @override
 Widget build(BuildContext context) {
  return Column(
   mainAxisSize: MainAxisSize.min,
   mainAxisAlignment: MainAxisAlignment.center,
   children: [
```

```
Icon(icon, color: color),

Padding(

padding: const EdgeInsets.only(top: 8),

child: Text(

label,

style: TextStyle(

fontSize: 12,

fontWeight: FontWeight.w400,

color: color,

),

),

),

),

),

),

),

),

);

}
```

3. Position the buttons with a Row widget

```
class ButtonSection extends StatelessWidget {
  const ButtonSection({super.key});

  @override
  Widget build(BuildContext context) {
    final Color color = Theme.of(context).primaryColor;
    return SizedBox(
        child: Row(
        mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        children: [
        ButtonWithText(
        color: color,
        icon: lcons.call,
        label: 'CALL',
```

```
),
     ButtonWithText(
      color: color,
      icon: lcons.near_me,
      label: 'ROUTE',
     ButtonWithText(
      color: color,
      icon: Icons.share,
      label: 'SHARE',
     ),
    ],
   ),
  );
 }
class ButtonWithText extends StatelessWidget {
 const ButtonWithText({
  super.key,
  required this.color,
  required this.icon,
  required this.label,
 });
 final Color color;
 final IconData icon;
 final String label;
 @override
 Widget build(BuildContext context) {
```

```
return Column(
// ...
);
}
}
```

4. Update the app to display the button section

```
TitleSection(

name: 'Oeschinen Lake Campground',

location: 'Kandersteg, Switzerland',
),

ButtonSection(),
```

D. Add the Text Section

1. Add the TextSection widget

```
class TextSection extends StatelessWidget {
  const TextSection({
    super.key,
    required this.description,
  });

final String description;

@override
Widget build(BuildContext context) {
  return Padding(
    padding: const EdgeInsets.all(32),
    child: Text(
    description,
    softWrap: true,
    ),
```

```
);
}
}
```

2. Update the app to display the text section

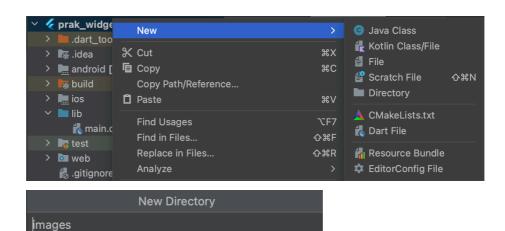
```
TextSection(
description:

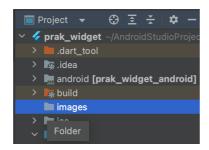
'Lake Oeschinen lies at the foot of the Blüemlisalp in the '
'Bernese Alps. Situated 1,578 meters above sea level, it '
'is one of the larger Alpine Lakes. A gondola ride from '
'Kandersteg, followed by a half-hour walk through pastures '
'and pine forest, leads you to the lake, which warms to 20 '
'degrees Celsius in the summer. Activities enjoyed here '
'include rowing, and riding the summer toboggan run.',
),
```

E. Add the image section

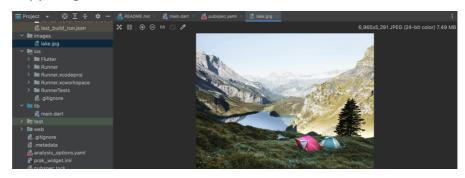
- 1. Download image
- 2. Create Directory in project folder

Klik kanan project -> New -> Directory





3. Copy image to folder



4. Create the ImageSction widget

```
class ImageSection extends StatelessWidget {
  const ImageSection({super.key, required this.image});

  final String image;

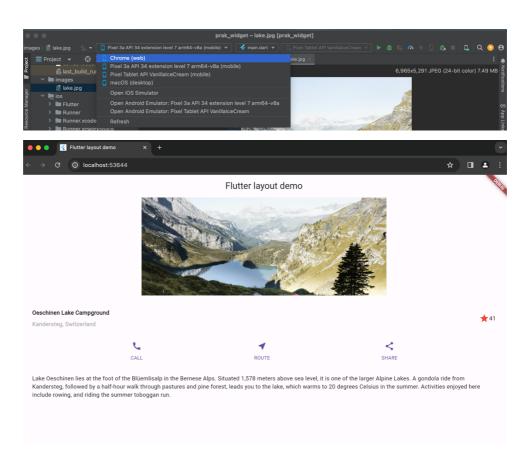
  @override
  Widget build(BuildContext context) {
   return Image.asset(
      image,
      width: 600,
      height: 240,
      fit: BoxFit.cover,
      );
  }
}
```

5. Update the app to display the image section

```
ImageSection(
image: 'images/lake.jpg',
),
```

F. Run App

Pilih simulator -> Klik Icon Run



- G. Push Code to GitHub https://github.com/adelianurlinap/Prak_PBM.git
 - a. Clone Repository yang telah dibuat :

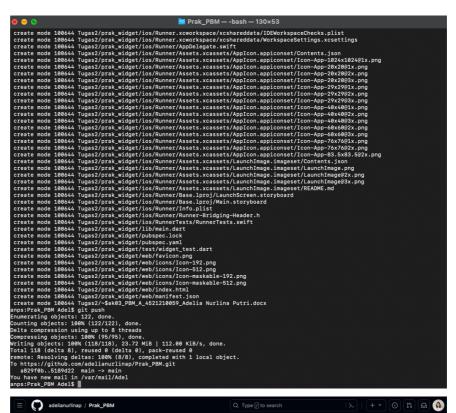
git clone https://github.com/adelianurlinap/Prak_PBM.git

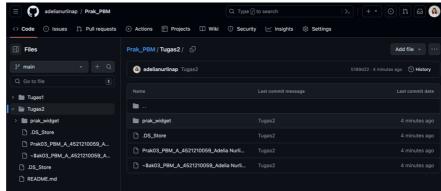
b. Add dan commit

```
git add .
git commit -m "Tugas2"
```

c. Push code

git push





H. Kesimpulan

Pada tugas 2 ini, telah dilakukan praktek untuk membuat widget flutter dasar. Aplikasi berbentuk 1 page dengan beberapa button, text, dan 1 gambar. Terakhir yaitu melakukan push code ke GitHub.

I. Referensi

https://docs.flutter.dev/ui/layout/tutorial