

Dokumentasi Tugas Form dan Advance Form

Form

Soal Prioritas 1 (80)

1. Buatlah sebuah halaman baru yang memiliki spesifikasi berikut: [link ilustrasi di figma](#)

1. Memiliki appbar dengan judul “Contacts”

```
appBar: AppBar(  
  title: const Text(  
    'Contacts',  
    style: TextStyle(color: Colors.white),  
  ), // Text  
  centerTitle: true,  
  backgroundColor: const Color.fromRGBO(103, 80, 164, 0.4),  
), // AppBar  
body: SingleChildScrollView(  

```

2. memiliki icon (gambar bebas)

```
), // SizedBox  
Image.asset('assets/image/icon_phone.png'),  
const SizedBox(  

```

3. memiliki deskripsi (text bebas)

```
const Padding(  
  padding: EdgeInsets.symmetric(horizontal: 30),  
  child: Text(  
    'A dialog is a type of modal window that appears in front of app content to provide critical information, or prompt for a decision to be made.'  
    style: TextStyle(  
      color: Color.fromARGB(102, 35, 33, 38),  
      fontSize: 14,  
      fontWeight: FontWeight.bold,  
    ), // TextStyle  
  ), // Text  
), // Padding
```

4. Buatlah sebuah Title yang bertuliskan “Create New Contacts”

```
const Text(  
  'Create New Contacts',  
  style: TextStyle(  
    color: Color.fromARGB(255, 134, 113, 137),  
    fontSize: 20,  
    fontWeight: FontWeight.bold,  
  ), // TextStyle  
), // Text  
const SizedBox(  

```

5. menampilkan sebuah form input nama dan no telp

```

children: [
  TextFormField(
    controller: nameController,
    keyboardType: TextInputType.name,
    decoration: const InputDecoration(
      filled: true,
      fillColor: Color.fromARGB(255, 218, 209, 220),
      labelText: 'Name',
      labelStyle: TextStyle(
        color: Color.fromARGB(255, 117, 133, 160)), // TextStyle
      hintText: 'Insert Your Name',
      focusedBorder: UnderlineInputBorder(
        borderSide: BorderSide(
          color: Color.fromARGB(255, 91, 76, 109),
        ), // BorderSide
      ), // UnderlineInputBorder
    ), // InputDecoration
    validator: (value) {
      if (value == null || value.isEmpty) { ...
      } else if (value.split(' ').length < 2) { ...
      } else if (!RegExp(r'^[A-Z][a-z]*([ ][A-Z][a-z]*)*$').
        .hasMatch(value)) { ...
      }
      return null;
    },
  ), // TextFormField
  const SizedBox( // SizedBox ...
  TextFormField(
    controller: phoneController,
    keyboardType: TextInputType.phone,
    decoration: const InputDecoration(
      filled: true,
      fillColor: Color.fromARGB(255, 219, 207, 221),
      labelText: 'Nomor',
      labelStyle: TextStyle(
        color: Color.fromARGB(255, 117, 133, 160)), // TextStyle
      hintText: '+62....',
      focusedBorder: UnderlineInputBorder(
        borderSide: BorderSide(
          color: Color.fromARGB(255, 72, 61, 86))), // BorderSide // UnderlineInputBorder // InputDecoration
    ), // InputDecoration
    validator: (value) {
      if (value == null || value.isEmpty) { ...
      } else if (!RegExp(r'^0[0-9]{7,14}$').
        .hasMatch(value)) { ...
      }
      return null;
    },
  ), // TextFormField

```

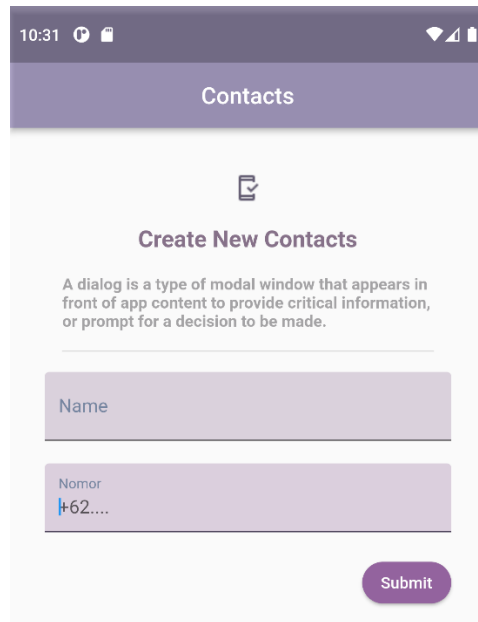
6. menampilkan tombol submit

```

children: [
  ElevatedButton(
    onPressed: () {
      if (formKey.currentState!.validate()) { ...
      }
    },
    style: ElevatedButton.styleFrom(
      backgroundColor:
        const Color.fromARGB(255, 147, 99, 158),
      shape: RoundedRectangleBorder(
        borderRadius: BorderRadius.circular(20),
      ), // RoundedRectangleBorder
    ),
    child: const Text(
      'Submit',
    ), // Text
  ), // ElevatedButton

```

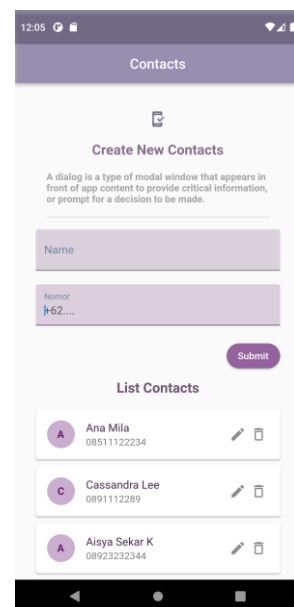
Result Page



2. buatlah sebuah widget baru yang terletak dibawah form “**create new contacts**” dengan spesifikasi berikut:
 1. Memiliki title “**List Contacts**”
 2. menampilkan data nama dan no telp dalam listview
 3. Jika tombol submit di tekan maka data pada “**List Contracts**” akan bertambah

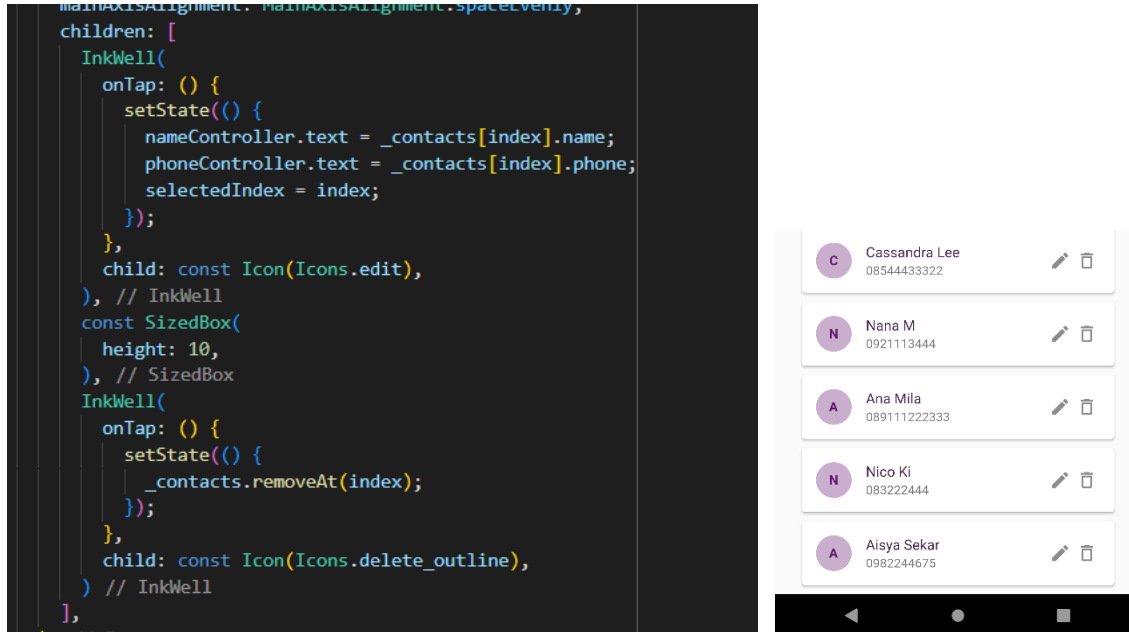
```
// // Container
const Text(
  'List Contacts',
  style: TextStyle(
    fontSize: 20,
    fontWeight: FontWeight.bold,
    color: Color.fromARGB(255, 110, 83, 114),
  ), // TextStyle
), // Text
const SizedBox( // SizedBox ...
//Widget untuk contact list
ListView.builder(
  shrinkWrap: true,
  physics: const NeverScrollableScrollPhysics(),
  itemCount: _contacts.length,
  itemBuilder: (context, index) {
    return Card(
      elevation: 2,
      margin:
        const EdgeInsets.only(right: 15, left: 15, bottom: 10),
      child: ListTile(
        leading: CircleAvatar(
          backgroundColor:
            const Color.fromARGB(255, 201, 174, 206),
          child: Text(
            _contacts[index].name[0],
            style: const TextStyle(
              color: Color.fromARGB(255, 98, 25, 111),
              fontSize: 15,
              fontWeight: FontWeight.bold), // TextStyle
          ), // Text
        ), // CircleAvatar
        title: Text(
          _contacts[index].name,
          style: const TextStyle(
            color: Color.fromARGB(255, 69, 36, 74)), // TextStyle
        ), // Text
        subtitle: Text(_contacts[index].phone),
        trailing: SizedBox(
          width: 60,
          child: Row(
            mainAxisAlignment: MainAxisAlignment.spaceEvenly,
            children: [
              InkWell( // InkWell ...
                const SizedBox( // SizedBox ...
                  InkWell( // InkWell ...

```



Soal Prioritas 2 (20)

1. Buatlah sebuah fitur untuk menghapus data yang ada pada listview!
2. Buatlah sebuah fitur untuk melakukan update pada data kontak.



Soal Eksplorasi (20)

Lakukan validasi pada masing-masing form dengan spesifikasi seperti berikut

1. Validasi Nama:
 - o Nama harus diisi oleh user.
 - o Nama harus terdiri dari minimal 2 kata.
 - o Setiap kata harus dimulai dengan huruf kapital.
 - o Nama tidak boleh mengandung angka atau karakter khusus.

```
validator: (value) {
  if (value == null || value.isEmpty) {
    return 'Name cannot be empty!';
  } else if (value.split(' ').length < 2) {
    return 'Please enter at least two words for the name!';
  } else if (!RegExp(r'^[A-Z][a-z]*([ ]?[A-Z][a-z]*)*$').
    .hasMatch(value)) {
    return 'Name must start with a capital letter and only contain letters!';
  }
  return null;
},
// TextFormField
```

2. Validasi Nomor Telepon:
 - o Nomor telepon harus diisi oleh user.

- Nomor telepon harus terdiri dari angka saja.
- Panjang nomor telepon harus minimal 8 digit dan maksimal 15 digit.
- Nomor telepon harus dimulai dengan angka 0.

```

validator: (value) {
  if (value == null || value.isEmpty) {
    return 'phone number cannot be empty!';
  } else if (!RegExp(r'^0[0-9]{7,14}$').
    .hasMatch(value)) {
    return 'Phone number must consist of 8-15 digits and start with 0!';
  }
  return null;
},
// TextFormField

```

The first screenshot shows the 'Create New Contacts' form with the name 'Ana Auli*' and number '982222'. The name field has a red border and a message: 'Name must start with a capital letter and only contain letters!'. The number field has a red border and a message: 'Phone number must consist of 8-15 digits and start with 0!'. The second screenshot shows the same form with the name 'Ana' and number '982222'. The name field has a red border and a message: 'Please enter at least two words for the name!'. The number field has a red border and a message: 'Phone number must consist of 8-15 digits and start with 0!'. The third screenshot shows the same form with the name 'Insert Your Name' and number '7123'. The name field has a red border and a message: 'Name cannot be empty!'. The number field has a red border and a message: 'phone number cannot be empty!'. A numeric keypad is visible in the third screenshot.

The first screenshot shows the 'List Contacts' screen with a list of contacts: Cassandra Lee (08544433322), Nana M (0921113444), Ana Mila (089111222333), Nico Ki (0893222444), and Aisyah Sekar (0982244675). The second screenshot shows the 'List Contacts' screen with a list of contacts: Cassandra Lee (08544433322), Nana M (0921113444), and Aisyah S (0982121213). Both screenshots show the 'Create New Contacts' form at the top with the name field empty and the number field containing '+62...'. The 'Submit' button is visible in both screenshots.

Advance Form

Soal Prioritas 1 (80)

1. Buat sebuah halaman baru dan implementasikan date picker dan color picker seperti pada gambar dan video contoh pembuatan ada di [alta.id](https://www.alta.id)

Documentation date picker :

- Membuat page baru untuk layout date picker

```
1 import 'package:flutter/material.dart';
2
3 class AdvanceForm extends StatefulWidget {
4   const AdvanceForm({super.key});
5
6   @override
7   State<AdvanceForm> createState() => _AdvanceFormState();
8 }
9
10 class _AdvanceFormState extends State<AdvanceForm> {
11   @override
12   Widget build(BuildContext context) {
13     return Scaffold(
14       appBar: AppBar(
15         title: const Text('Interactive Widgets'),
16         centerTitle: true,
17       ), // AppBar
18       body: Container(
19         padding: const EdgeInsets.all(18),
20         child: ListView(
21           children: const [
22             //buildDatePicker
23             //buildColorPicker
24             //buildFilePicker
25           ],
26         ), // ListView
27       ), // Container
28     ); // Scaffold
29   }
30 }
```

- Code untuk main.dart

```
1 import 'package:flutter/material.dart';
2 import 'advance_form.dart';
3
4 void main() {
5   runApp(const MyApp());
6 }
7
8 class MyApp extends StatelessWidget {
9   const MyApp({super.key});
10
11   @override
12   Widget build(BuildContext context) {
13     return MaterialApp(
14       debugShowCheckedModeBanner: false,
15       theme: ThemeData(
16         primarySwatch: Colors.blue,
17       ), // ThemeData
18       home: const AdvanceForm(),
19     ); // MaterialApp
20   }
21 }
```

- Menambahkan packages intl di pubspec.yaml

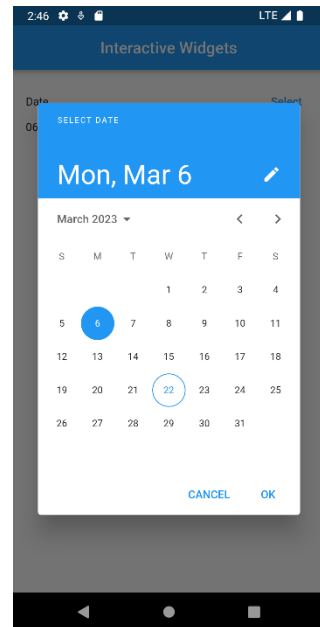
```
30 dependencies:
31   flutter:
32     sdk: flutter
33   intl: ^0.18.0
34
```

- Mempersiapkan variable

```
class _AdvanceFormState extends State<Adva
  DateTime _dueDate = DateTime.now();
  final currentDate = DateTime.now();
  @override
```

- Membuat UI untuk date picker nya, dilanjutkan dengan menambahkan showDatePicker dalam onPressed() dan memanggil fungsi setState() dalam onPressed

```
36 widget buildDatePicker(BuildContext context) {
37   return Column(
38     crossAxisAlignment: CrossAxisAlignment.start,
39     children: [
40       Row(
41         mainAxisAlignment: MainAxisAlignment.spaceBetween,
42         children: [
43           const Text('Date'),
44           TextButton(
45             onPressed: () async {
46               final selectedDate = await showDatePicker(
47                 context: context,
48                 initialDate: currentDate,
49                 firstDate: DateTime(2002),
50                 lastDate: DateTime(currentDate.year + 5),
51               );
52               setState(() {
53                 if (selectedDate != null) {
54                   _dueDate = selectedDate;
55                 }
56               });
57             },
58             child: const Text('Select'),
59           ) // TextButton
60         ],
61       ), // Row
62       Text(DateFormat('dd-MM-yyyy').format(_dueDate)),
63     ],
64   ); // Column
65 }
66 }
```



Date Select

06-03-2023

Documentation color picker :

- Menambahkan packages flutter_colorpicker di pubspec.yaml

```
30 dependencies:
31   flutter:
32     sdk: flutter
33   intl: ^0.18.0
34   flutter_colorpicker: ^1.0.3
35
```

- Mempersiapkan variabel

```
Color _color = Colors.orange;
```

- Membuat UI

```

72 widget buildColorPicker(BuildContext context) {
73   return Column(
74     crossAxisAlignment: CrossAxisAlignment.start,
75     children: [
76       const Text('Color'),
77       const SizedBox(
78         height: 10,
79       ), // SizedBox
80       Container(
81         height: 100,
82         width: double.infinity,
83         color: _currentColor,
84       ), // Container
85       const SizedBox(
86         height: 10,
87       ), // SizedBox
88       Center(
89         child: ElevatedButton(
90           style: ButtonStyle(
91             backgroundColor: MaterialStateProperty.all(_currentColor),
92           ), // ButtonStyle
93           onPressed: () {},
94           child: const Text('Pick Color'),
95         ), // ElevatedButton
96       ), // Center
97     ],
98   ); // Column
99 }

```

- Menambahkan fungsi showDialog dalam onPressed dengan return AlertDialog

```

builder: (context) {
  return AlertDialog(
    title: const Text('Pick Your Color'),
    actions: [
      TextButton(
        onPressed: () {
          Navigator.pop(context);
        },
        child: const Text('Save'),
      ), // TextButton
    ],
  ); // AlertDialog
},

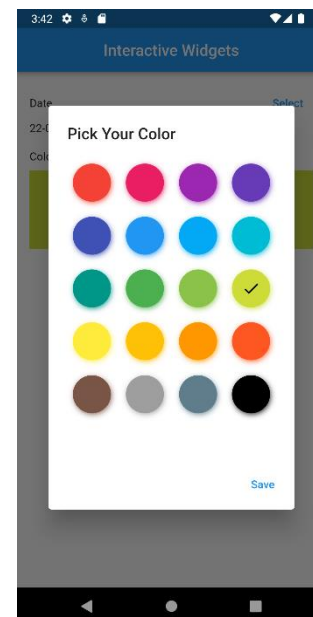
```

- Import packages flutter_colorpicker dalam file dart
- Code penggunaan packages flutter_colorpicker

```

title: const Text('Pick Your Color'),
content: BlockPicker(
  pickerColor: _currentColor,
  onColorChanged: (color) {
    setState(() {
      _currentColor = color;
    });
  }, // BlockPicker
),

```




```

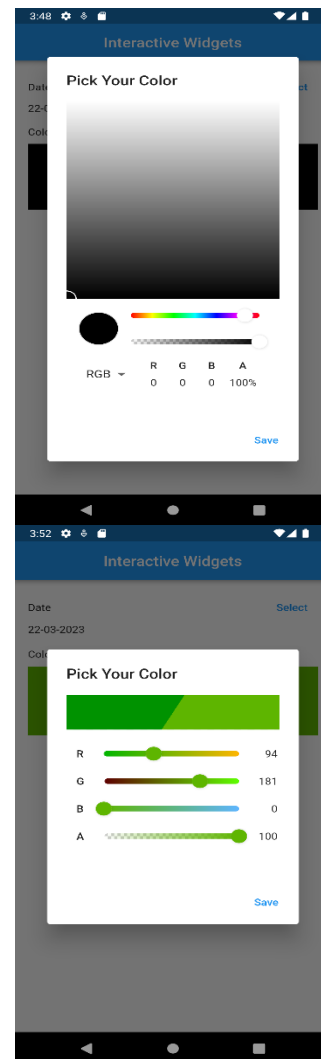
content: SingleChildScrollView(
  child: ColorPicker(
    pickerColor: _currentColor,
    onColorChanged: (color) {
      setState(() {
        _currentColor = color;
      });
    }), // ColorPicker
  // SingleChildScrollView

```

```

content: SingleChildScrollView(
  child: SlidePicker(
    pickerColor: _currentColor,
    onColorChanged: (color) {
      setState(() {
        _currentColor = color;
      });
    }), // SlidePicker
  // SingleChildScrollView

```



2. implementasikan file picker seperti yang di contohkan pada video

- Menambahkan packages file_picker dan open_file di pubspec.yaml
- Import packages file_picker dan open_file dalam file dart
- Membuat UI
- Membuat fungsi untuk mengexplore dan memilih file dari storage
- Memanggil fungsi _pickFile di dalam onPressed
- Membuat fungsi untuk membuka file yang dipilih
- Mengambil file dari object result dan memanggil fungsi _openFile di dalam fungsi _pickFile

```

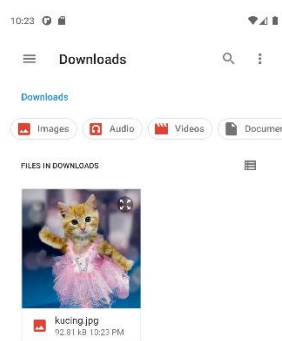
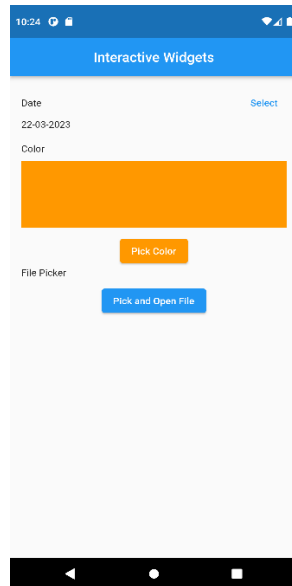
Widget buildFilePicker() {
  return Column(
    crossAxisAlignment: CrossAxisAlignment.start,
    children: [
      const Text('File Picker'),
      const SizedBox(height: 10),
      Center(
        child: ElevatedButton(
          onPressed: () {
            _pickFile();
          },
          child: const Text('Pick and Open File')), // ElevatedButton
        ) // Center
      ],
    ); // Column
}

void _pickFile() async {
  final result = await FilePicker.platform.pickFiles();
  if (result == null) return;
  final file = result.files.first;
  _openFile(file);
}

void _openFile(PlatformFile file) {
  OpenFile.open(file.path);
}

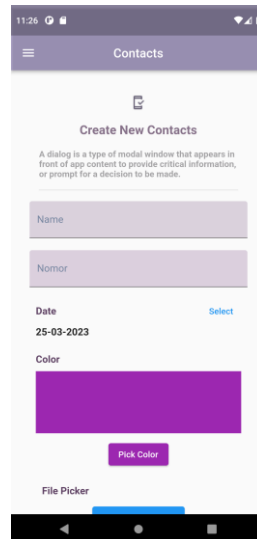
```

Hasil :

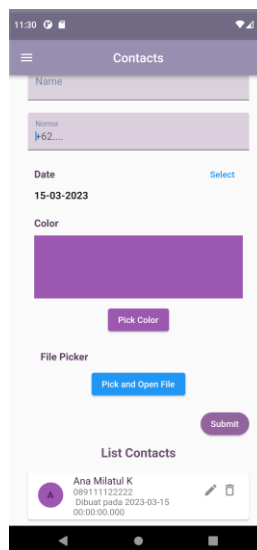


Soal Prioritas 2 (20)

1. Menambahkan date, color, dan file picker



2. ketika button submit di tekan akan memasukkan data name, nomor, date, color dan file ke dalam variabel yang telah kalian buat.



3. untuk membuktikan bahwa data telah berhasil untuk masuk, kalian cukup melakukan logDev pada console. ilustrasi dapat dilihat pada gambar di bawah

```

D/FilePickerDelegate(12887): Selected type */*
I/FilePickerUtils(12887): Caching from URI: content://com.android.providers.downloads.documents/document/msf%3A27
D/FilePickerUtils(12887): File loaded and cached at:/data/user/0/com.example.flutter_form/cache/file_picker/kucing.jpg
D/FilePickerDelegate(12887): File path:[com.mr.flutter.plugin.filepicker.FileInfo@9dc42e2]
4 D/InputConnectionAdaptor(12887): The input method toggled cursor monitoring on
I/flutter (12887): Ana Milatul K
I/flutter (12887): 08911112222
I/flutter (12887): 2023-03-15 00:00:00.000
I/flutter (12887): color(0xff9c58b0)

```

Soal Explorasi (20)

1. tampilan data pada variabel yang kalian punya ke dalam user interface **list contacts**
2. pastikan setiap data dapat tampil pada list contact,

