

PEMROGRAMAN MOBILE
PERTEMUAN – 09
UJIAN TENGAH SEMESTER



Oleh :

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POLITEKNIK NEGERI MALANG
PROGRAM STUDI D-IV SISTEM INFORMASI BISNIS
JURUSAN TEKNOLOGI INFORMASI

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Soal 1: Modifikasi Struktur Navigasi dan Aliran

Lakukan commit awal untuk branch main



Pengubahan Navigasi Home :

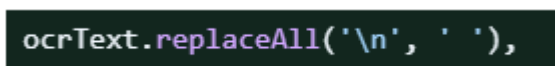
HomeScreen (lib/screens/home_screen.dart) - Ganti ElevatedButton menjadi ListTile:



Teks Utuh dan Navigasi Balik :

ResultScreen (lib/screens/result_screen.dart)

Hapus Kode :



Tambahkan tombol kembali ke Home:

```
1 import 'package:flutter/material.dart';
2 import 'home_screen.dart';
3
4 class ResultScreen extends StatelessWidget {
5   final String ocrText;
6
7   const ResultScreen({super.key, required this.ocrText});
8
9   @override
10  Widget build(BuildContext context) {
11    return Scaffold(
12      appBar: AppBar(title: const Text('Hasil OCR')),
13      body: Padding(
14        padding: const EdgeInsets.all(16.0),
15        child: SingleChildScrollView(
16          child: SelectableText(
17            ocrText.isEmpty
18              ? 'Tidak ada teks ditemukan.'
19              : ocrText, // mempertahankan format baris asli
20            style: const TextStyle(fontSize: 18),
21          ),
22        ),
23      ),
24      floatingActionButton: FloatingActionButton(
25        onPressed: () {
26          Navigator.pushAndRemoveUntil(
27            context,
28            MaterialPageRoute(builder: (context) => const HomeScreen()),
29            (route) => false,
30          );
31        },
32        child: const Icon(Icons.home),
33      ),
34    );
35  }
36 }
37
```


Output :





Commit :

UTS: Selesai Soal 1 - ListTile dan Navigasi Balik

 [bhimantara435](#) committed 16 hours ago

Soal 2: Penyesuaian Tampilan dan Penanganan State/Error

Custom Loading :

Dalam lib/screens/scan_screen.dart, di bagian:

```
1 if (!_controller == null || !_controller!.value.isInitialized) return;
```

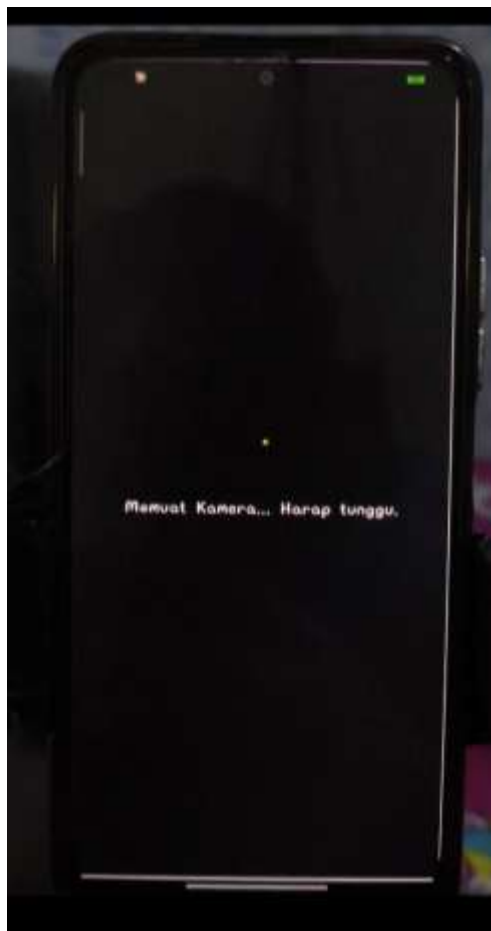
Di ganti menjadi :

```
1 // BAGIAN YANG DIGANTI: Custom Loading Screen
2 if (!_controller == null || !_controller!.value.isInitialized) {
3   return Scaffold(
4     backgroundColor: Colors.grey[900], // Warna latar belakang gelap
5     body: Center(
6       child: Column(
7         mainAxisAlignment: MainAxisAlignment.center,
8         children: const [
9           CircularProgressIndicator(color: Colors.yellow), // Loading kuning
10          SizedBox(height: 20),
11          Text(
12            'Memuat Kamera... Harap tunggu.', // Pesan teks
13            style: TextStyle(color: Colors.white, fontSize: 18),
14          ),
15        ],
16      ),
17    ),
18  );
19 }
20
```

Tambahkan pesan error :

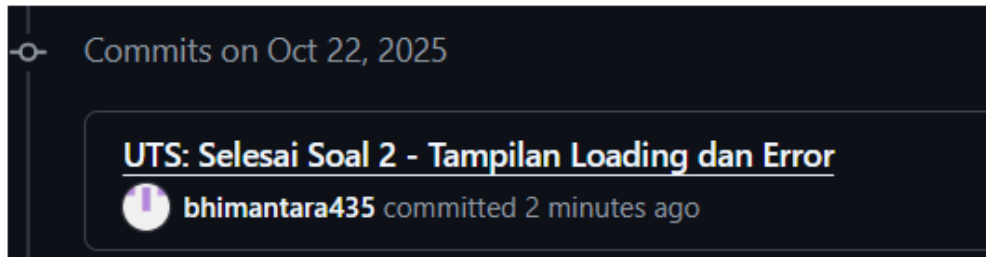
```
1 // Pesan error
2 ScaffoldMessenger.of(context).showSnackBar(
3   const SnackBar(
4     content: Text("Pemindaian Gagal! Periksa Irit Kamera atau coba lagi."),
5   ),
6 );
7 }
8 }
```

Ouput :



Commit :

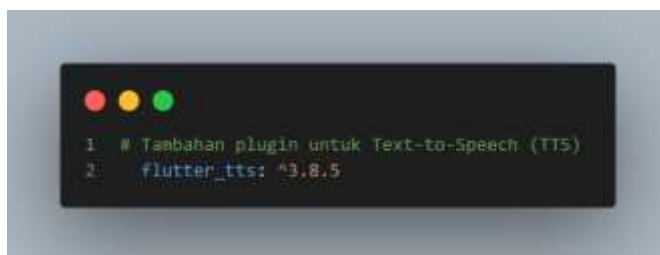
```
C:\androidprojects\JS7_Bhimantara\ocr_sederhana>git add lib/screens/scan_screen.dart
warning: in the working copy of 'lib/screens/scan_screen.dart', LF will be replaced by CRLF the next time git touches it
C:\androidprojects\JS7_Bhimantara\ocr_sederhana>git commit -m "UTS: Selesai Soal 2 - Tampilan Loading dan Error"
[main 910ceb3] UTS: Selesai Soal 2 - Tampilan Loading dan Error
1 file changed, 22 insertions(+), 6 deletions(-)
C:\androidprojects\JS7_Bhimantara\ocr_sederhana>git push origin main
Everything up-to-date
```



Soal 3: Implementasi Plugin Text-to-Speech (TTS)

Instal Plugin

Menambahkan di pubspec.yaml:



Konversi ke StatefulWidget (10 poin)

- Ubah ResultScreen jadi StatefulWidget.
- Di initState(), inialisasi FlutterTts dan atur bahasa

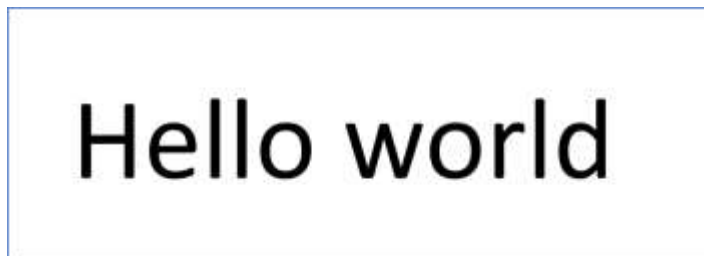


Fungsi Bicara

Menambahkan tombol suara :



Output :



Screenrecorder-2025-10-22-16-10-02-960.mp4



Commit :

```
C:\androidprojects\152 bhimantara\ocr_soderhana>git add pubspec.yaml lib/screens/result_screen.dart
warning: in the working copy of 'lib/screens/result_screen.dart', LF will be replaced by CRLF the next time git touches it

C:\androidprojects\152 bhimantara\ocr_soderhana>git commit -m "UTS: Selesai Soal 3 - Implementasi Flutter TTS"
[main 7f01c37] UTS: Selesai Soal 3 - Implementasi Flutter TTS
 6 files changed, 73 insertions(+), 12 deletions(-)

C:\androidprojects\152 bhimantara\ocr_soderhana>git push origin main
Enumerating objects: 27, done.
Counting objects: 100% (27/27), done.
Delta compression using up to 24 threads
Compressing objects: 100% (14/14), done.
Writing objects: 100% (14/14), 2.34 KiB | 600.00 KiB/s, done.
Total 14 (delta 9), reused 0 (delta 0), pack-reused 0 (from 0)
remote: resolving deltas: 100% (0/0), completed with 0 local objects.
To https://github.com/bhimantara15/ocr_soderhana.git
 5f0c6d...7f01c37  main -> main
```

UTS: Selesai Soal 3 - Implementasi Flutter TTS



bhimantara435 committed 1 minute ago