

UAS
PRAKTIKUM PEMROGRAMAN MOBILE

JUDUL JOBSHEET

Untuk Memenuhi Ujian Akhir Semester
Mata Kuliah Praktikum Pemrograman Mobile
Dosen Pengampu: Safri Adam, S.Kom., M.Kom



Disusun Oleh:

Aryo Wibowo (NIM: 3202116031)

Alda Rahmanita (NIM: 3202116076)

Uchi Hardiana (NIM: 3202116077)

Walillah (NIM: 3202116032)

Ifdul Rahman (NIM:3202116033)

PROGRAM STUDI D3 TEKNIK INFORMATIKA
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KATA PENGANTAR

Puji dan syukur kami panjatkan kepada Allah SWT atas rahmat dan karunia-nya sehingga Ujian Akhir Semester” dapat terselesaikan dengan baik. ini merupakan salah satu UAS yang diberikan oleh dosen pengampu mata kuliah Praktikum Pemrograman Mobile kepada mahasiswa Program Studi D3 Teknik Informatika Jurusan Teknik Elektro.

Uas ini kami membahas tentang ..? di aplikasi mobile. Demikian laporan ini kami buat semoga bermanfaat.

Pontianak, 18 Agustus 2023

Penyusun,

(Kelompok ?)

UJIAN AKHIR SEMESTER

Data

Source Code :

```
1  import 'package:hive/hive.dart';
2  import 'package:hive_flutter/hive_flutter.dart';
3  import '../models/note.dart';
4
5  class HiveDatabase {
6    final _myBox = Hive.box('note_database');
7
8    List<Note> loadNotes() {
9      List<Note> savedNotesFormatted = [];
10
11      if (_myBox.get("ALL_NOTES") != null) {
12        List<dynamic> savedNotes = _myBox.get("ALL_NOTES");
13        for (int i = 0; i < savedNotes.length; i++) {
14          Note individualNote =
15            Note(id: savedNotes[i][0], text: savedNotes[i][1]);
16          savedNotesFormatted.add(individualNote);
17        }
18      } else {
19        savedNotesFormatted.add(
20          Note(id: 0, text: 'First Note'),
21        );
22      }
23      return savedNotesFormatted;
24    }
25
26    void savedNotes(List<Note> allNotes) {
27      List<List<dynamic>> allNotesFormatted = [];
28      for (var note in allNotes) {
29        int id = note.id;
30        String text = note.text;
31        allNotesFormatted.add([id, text]);
32      }
33
34      _myBox.put("ALL_NOTES", allNotesFormatted);
35    }
36  }
37
```

Keterangan :

Kode tersebut menunjukkan penggunaan Hive untuk menyimpan dan memuat data dalam bentuk objek Note dengan memanfaatkan kotak (box) Hive. Ini adalah pendekatan efisien untuk mengelola data lokal dalam aplikasi Flutter.

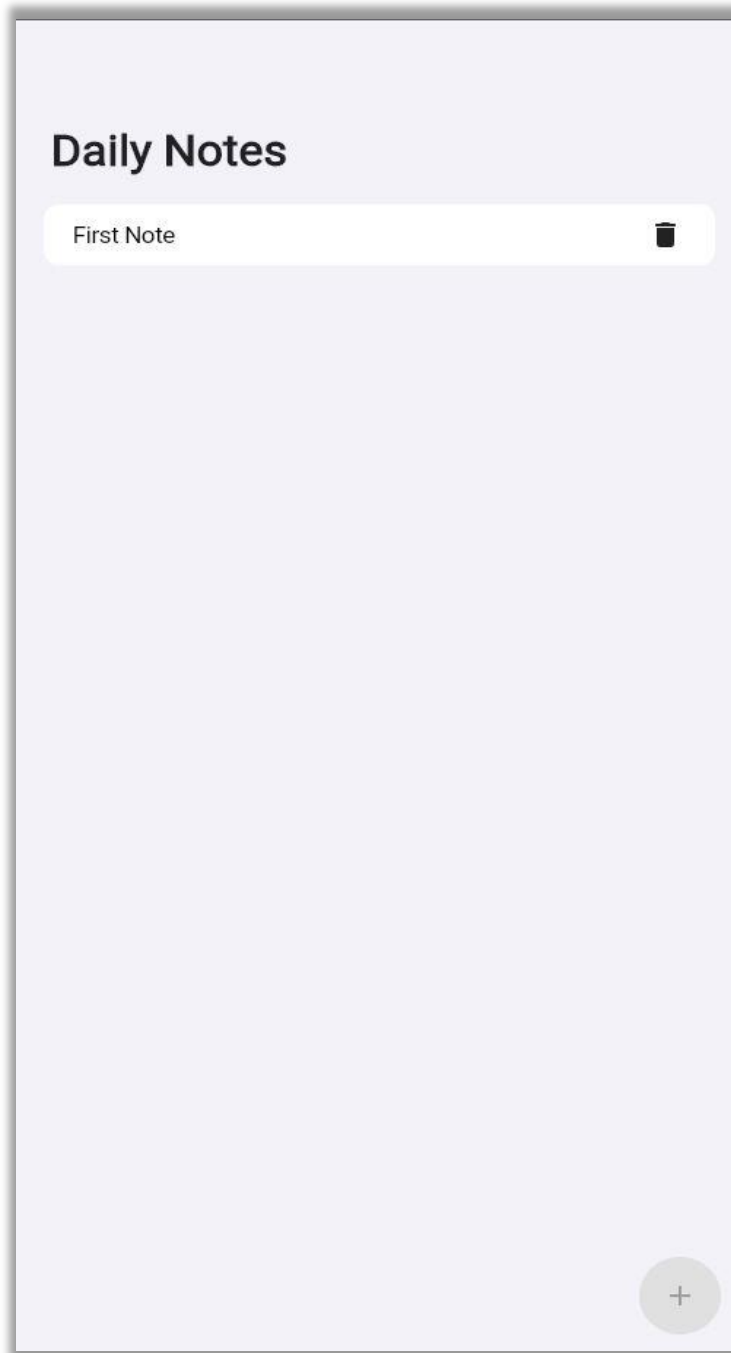
Model => Note data.dart

Source Code :

```
1 import 'package:flutter/material.dart';
2 import 'package:note_tute/data/hive_database.dart';
3 import 'package:note_tute/models/note.dart';
4
5 class NoteData extends ChangeNotifier {
6
7   final db = HiveDatabase();
8
9   // overall list of notes
10  List<Note> allNotes = [
11
12  ];
13
14
15  void initializeNotes() {
16    allNotes = db.loadNotes();
17  }
18
19  // get notes
20  List<Note> getAllNotes() {
21    return allNotes;
22  }
23
24  // add a new note
25  void addNewNote(Note note) {
26    allNotes.add(note);
27    notifyListeners();
28  }
29
30  // update note
31  void updateNote(Note note, String text) {
32    for (int i=0; i < allNotes.length; i++) {
33      if (allNotes[i].id == note.id){
34        allNotes[i].text = text;
35      }
36    }
37    notifyListeners();
38  }
39
40  // delete note
41  void deleteNode(Note note) {
42    allNotes.remove(note);
43    notifyListeners();
44  }
45 }
```

Keterangan :

Pada Kode Note.data.dart di atas merupakan bagian dari sebuah aplikasi Flutter yang mengelola data catatan (notes) menggunakan Hive database. Ini merangkum kelas NoteData yang berperan sebagai penyedia data dan pengelola perubahan (ChangeNotifier) untuk catatan-catatan dalam aplikasi.

Output :

Pages => editing_note_page.dart

Source Code :

```

1 import 'dart:html';
2 import 'package:flutter/cupertino.dart';
3 import 'package:flutter/material.dart';
4 import 'package:flutter_quill/flutter_quill.dart';
5 import 'package:note_tute/models/note_data.dart';
6 import 'package:provider/provider.dart';
7
8 import '../models/note.dart';
9
10 class EditingNotePage extends StatefulWidget {
11   Note note;
12   bool isNewNote;
13   EditingNotePage({
14     super.key,
15     required this.note,
16     required this.isNewNote,
17   });
18
19   @override
20   State<EditingNotePage> createState() => _EditingNotePageState();
21 }
22
23 class _EditingNotePageState extends State<EditingNotePage> {
24   QuillController _controller = QuillController.basic();
25
26   @override
27   void initState() {
28     super.initState();
29     loadExistingNote();
30   }
31
32   // load existing note
33   void loadExistingNote() {
34     final doc = Document()..insert(0, widget.note.text);
35     setState(() {
36       _controller = QuillController(
37         document: doc, selection: const TextSelection.collapsed(offset: 0));
38     });
39   }
40
41   // add new note
42   void addNewNote() {
43
44     int id = Provider.of<NoteData>(context, listen: false).getAllNotes().length;
45     // get text from editor
46     String text = _controller.document.toPlainText();
47     // add the new note
48     Provider.of<NoteData>(context, listen: false).addNewNote(
49       Note(id: id, text: text),
50     );
51   }
52
53   // update existing note
54   void updateNote() {
55     String text = _controller.document.toPlainText();
56     Provider.of<NoteData>(context, listen: false).updateNote(widget.note, text);
57   }
58
59   @override
60   Widget build(BuildContext context) {
61     return Scaffold(
62       backgroundColor: CupertinoColors.systemGroupedBackground,
63       appBar: AppBar(
64         elevation: 0,
65         backgroundColor: Colors.transparent,
66         leading: IconButton(
67           icon: const Icon(Icons.arrow_back),
68           onPressed: () {
69             if (widget.isNewNote && !_controller.document.isEmpty()) {
70               addNewNote();
71             }
72
73             else {
74               updateNote();
75             }
76
77             Navigator.pop(context);
78           },
79           color: Colors.black,
80         ),
81       ),
82     );
83   }
84 }

```

```

82     body: Column(
83       children: [
84         // toolbar
85         QuillToolbar.basic(
86           controller: _controller,
87           showAlignmentButtons: false,
88           showBackgroundColorButton: false,
89           showCenterAlignment: false,
90           showCodeBlock: false,
91           showColorButton: false,
92           showDirection: false,
93           showFontFamily: false,
94           showDividers: false,
95           showIndent: false,
96           showHeaderStyle: false,
97           showLink: false,
98           showSearchButton: false,
99           showInlineCode: false,
100          showQuote: false,
101          showListNumbers: false,
102          showListBullets: false,
103          showClearFormat: false,
104          showFontSize: false,
105          showBoldButton: false,
106          showItalicButton: false,
107          showUnderlineButton: false,
108          showStrikeThrough: false,
109          showListCheck: false,
110        ),
111
112        Expanded(
113          child: Container(
114            padding: const EdgeInsets.all(25),
115            child: QuillEditor.basic(
116              controller: _controller,
117              readOnly: false,
118            ),
119          ),
120        ),
121      ],
122    );
123  };
124 }
125 }
126

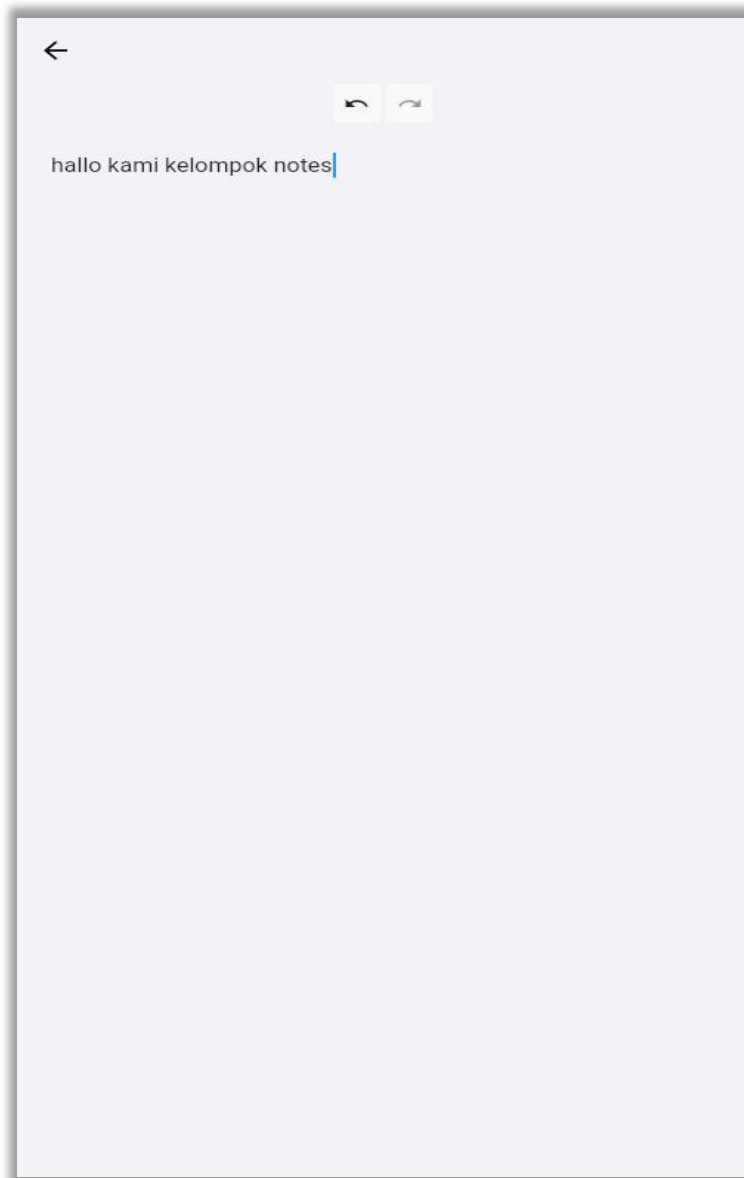
```

Keterangan :

Pada Kode di atas digunakan untuk mengedit catatan (notes) menggunakan editor teks yang disediakan oleh pustaka flutter_quill. Ini merangkum halaman EditingNotePage yang berfungsi untuk menambah atau mengedit catatan dalam aplikasi.

Pada dasarnya, kelas EditingNotePage ini mengatur tampilan dan logika interaksi untuk mengedit dan menyimpan catatan menggunakan editor teks Quill. Hal ini juga berinteraksi dengan NoteData melalui penyedia data (Provider) untuk menambah atau mengupdate catatan.

Output :



Pages => home_page.dart

Source Code :

```
1 import 'package:flutter/cupertino.dart';
2 import 'package:flutter/material.dart';
3 import 'package:note_tute/models/note_data.dart';
4 import 'package:provider/provider.dart';
5
6 import '../models/note.dart';
7 import 'editing_note_page.dart';
8
9 class HomePage extends StatefulWidget {
10   const HomePage({super.key});
11
12   @override
13   State<HomePage> createState() => _HomePageState();
14 }
15
16 class _HomePageState extends State<HomePage> {
17   @override
18   void initState() {
19     super.initState();
20     Provider.of<NoteData>(context, listen: false).initializeNotes();
21   }
22
23   void createNewNote() {
24     // create a blank note
25     int id = Provider.of<NoteData>(context, listen: false).getAllNotes().length;
26     Note newNote = Note(
27       id: id,
28       text: '',
29     );
30
31     // go to edit the note
32     goToNotePage(newNote, true);
33   }
34
35   // go to note editing page
36   void goToNotePage(Note note, bool isNewNote) {
37     Navigator.push(
38       context,
39       MaterialPageRoute(
40         builder: (context) => EditingNotePage(
41           note: note,
42           isNewNote: isNewNote,
43         ),
44     ),
45   );
46 }
47
48 // delete note
49 void deleteNote(Note note) {
50   Provider.of<NoteData>(context, listen: false).deleteNode(note);
51 }
52
53 @override
54 Widget build(BuildContext context) {
55   return Consumer<NoteData>(
56     builder: (context, value, child) => Scaffold(
57       backgroundColor: CupertinoColors.systemGroupedBackground,
58       floatingActionButton: FloatingActionButton(
59         onPressed: createNewNote,
60         elevation: 0,
61         backgroundColor: Colors.grey[300],
62         child: const Icon(
63           Icons.add,
64           color: Colors.grey,
65         ),
66       ),
67       body: Column(
68         crossAxisAlignment: CrossAxisAlignment.start,
69         children: [
70           const Padding(
71             padding: EdgeInsets.only(left: 25.0, top: 75),
72             child: Text(
73               'Daily Notes',
```

```

74         style: TextStyle(fontSize: 32, fontWeight: FontWeight.bold),
75       ),
76     ),
77     value.getAllNotes().length == 0
78     ? Center(
79       child: Padding(
80         padding: const EdgeInsets.only(top: 50.0),
81         child: Text('Nothing Here..', style: TextStyle(color: Colors.grey[400])),
82       ),
83     )
84     : CupertinoListSection.insetGrouped(
85       children: List.generate(
86         value.getAllNotes().length,
87         (index) => CupertinoListTile(
88           title: Text(value.getAllNotes()[index].text),
89           onTap: () =>
90             goToNotePage(value.getAllNotes()[index], false),
91           trailing: IconButton(
92             icon: Icon(Icons.delete),
93             onPressed: () =>
94               deleteNote(value.getAllNotes()[index]),
95           ),
96         ),
97       ),
98     ),
99   ],
100 ),
101 ),
102 );
103 }
104 }
105

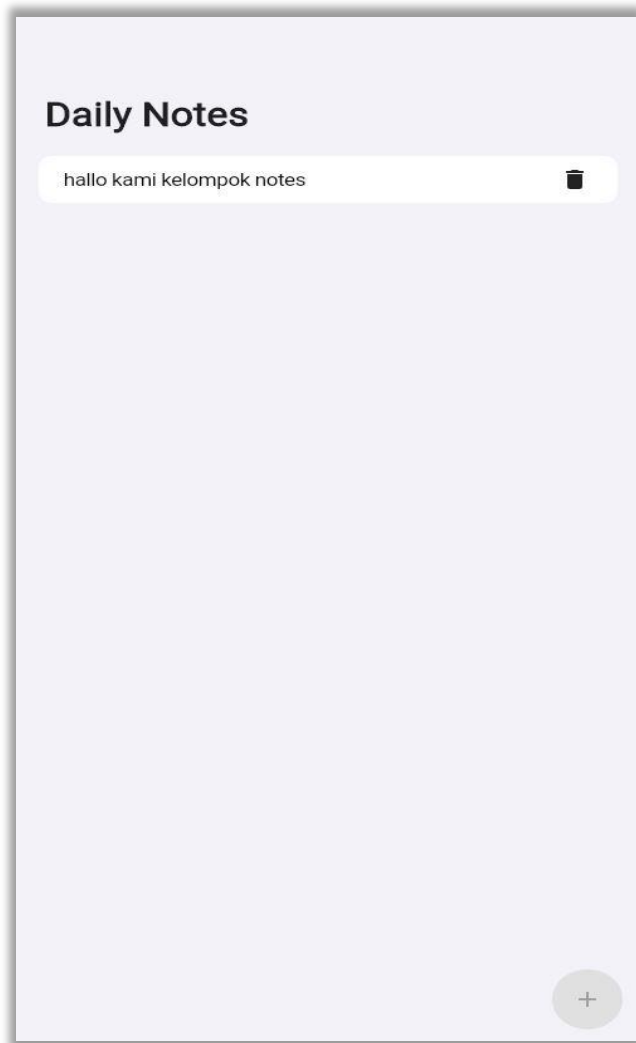
```

Keterangan :

Kode di atas adalah bagian dari aplikasi Flutter yang menampilkan daftar catatan (notes) pada halaman utama (HomePage). Ini menggunakan penyedia data NoteData dari Provider untuk mengelola catatan-catatan dalam aplikasi dan memungkinkan pengguna menambah, mengedit, dan menghapus catatan.

Kelas HomePage ini mengatur tampilan dan interaksi pada halaman utama, serta menggunakan Consumer untuk mendengarkan perubahan data catatan dan merefresh tampilan ketika terjadi perubahan.

Output :



Pages => main.dart

Source Code :



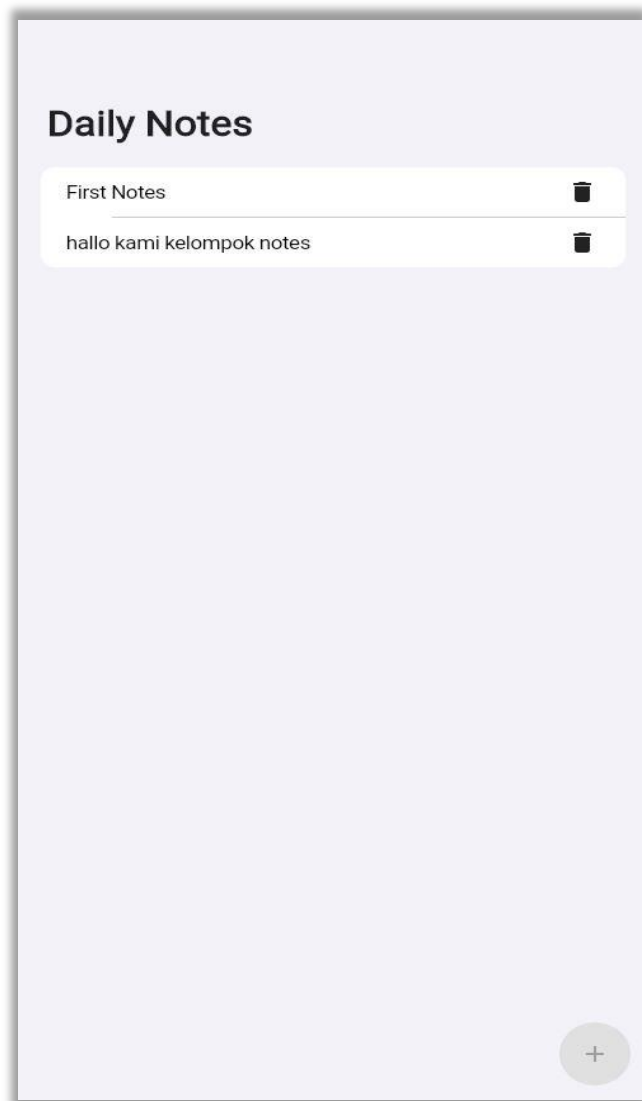
```
1 import 'package:flutter/material.dart';
2 import 'package:hive/hive.dart';
3 import 'package:hive_flutter/adapters.dart';
4 import 'package:notestute/models/note_data.dart';
5 import 'package:provider/provider.dart';
6 import 'pages/home_page.dart';
7
8 void main() async {
9   await Hive.initFlutter();
10  await Hive.openBox('note_database');
11  runApp(const MyApp());
12 }
13 class MyApp extends StatelessWidget {
14   const MyApp({super.key});
15   @override
16   Widget build(BuildContext) {
17     return ChangeNotifierProvider(
18       create: (context) => NoteData(),
19       builder: (context, child) => const MaterialApp(
20         debugShowCheckedModeBanner: false,
21         home: HomePage(),
22       ),
23     );
24   }
25 }
```

Keterangan :

Kode di atas menggunakan Hive database untuk mengelola catatan (notes) dan menyediakan tampilan melalui MaterialApp. Ini merangkum langkah-langkah utama dalam inisialisasi dan peluncuran aplikasi.

Dengan menggabungkan pustaka Hive, penyedia data Provider, dan tampilan menggunakan MaterialApp, kode ini menginisialisasi dan menjalankan aplikasi Flutter yang dapat mengelola catatan dan menampilkannya pada halaman utama (HomePage).

Output :



TEST=> model =>android.device_info_fake.dart

Source code :

```
1  const fakeAndroidBuildVersion = <String, dynamic>{
2    'sdkInt': 16,
3    'baseOS': 'baseOS',
4    'previewSdkInt': 30,
5    'release': 'release',
6    'codename': 'codename',
7    'incremental': 'incremental',
8    'securityPatch': 'securityPatch',
9  };
10
11 const fakeDisplayMetrics = <String, dynamic>{
12   'widthPx': 1080.0,
13   'heightPx': 2220.0,
14   'xDpi': 530.0859,
15   'yDpi': 529.4639,
16 };
17
18 const fakeSupportedAbis = <String>['arm64-v8a', 'x86', 'x86_64'];
19 const fakeSupported32BitAbis = <String?>['x86 (IA-32)', 'MMX'];
20 const fakeSupported64BitAbis = <String?>['x86-64', 'MMX', 'SSSE3'];
21 const fakeSystemFeatures = ['FEATURE_AUDIO_PRO', 'FEATURE_AUDIO_OUTPUT'];
22
23 const fakeAndroidDeviceInfo = <String, dynamic>{
24   'id': 'id',
25   'host': 'host',
26   'tags': 'tags',
27   'type': 'type',
28   'model': 'model',
29   'board': 'board',
30   'brand': 'Google',
31   'device': 'device',
32   'product': 'product',
33   'display': 'display',
34   'hardware': 'hardware',
35   'isPhysicalDevice': true,
36   'bootloader': 'bootloader',
37   'fingerprint': 'fingerprint',
38   'manufacturer': 'manufacturer',
39   'supportedAbis': fakeSupportedAbis,
40   'systemFeatures': fakeSystemFeatures,
41   'version': fakeAndroidBuildVersion,
42   'supported64BitAbis': fakeSupported64BitAbis,
43   'supported32BitAbis': fakeSupported32BitAbis,
44   'displayMetrics': fakeDisplayMetrics,
45   'serialNumber': 'SERIAL',
46 };
47
```

Keterangan :

Kode di atas mendefinisikan sejumlah variabel konstan yang menyimpan informasi palsu (dummy) tentang perangkat Android dan lingkungan sistem. Ini biasanya digunakan untuk pengujian atau simulasi dalam pengembangan aplikasi.

TEST=> model =>android.device_info_test.dart

Source code :

```
1 // ignore_for_file: deprecated_member_use_from_same_package
2
3 import 'package:device_info_plus/src/model/android_device_info.dart';
4 import 'package:flutter_test/flutter_test.dart';
5
6 import 'android_device_info_fake.dart';
7
8 void main() {
9   group('$AndroidDeviceInfo', () {
10     group('fromMap | toMap', () {
11       test('fromMap should return $AndroidDeviceInfo with correct values', () {
12         final androidDeviceInfo =
13           AndroidDeviceInfo.fromMap(fakeAndroidDeviceInfo);
14
15         expect(androidDeviceInfo.id, 'id');
16         expect(androidDeviceInfo.host, 'host');
17         expect(androidDeviceInfo.tags, 'tags');
18         expect(androidDeviceInfo.type, 'type');
19         expect(androidDeviceInfo.model, 'model');
20         expect(androidDeviceInfo.board, 'board');
21         expect(androidDeviceInfo.brand, 'Google');
22         expect(androidDeviceInfo.device, 'device');
23         expect(androidDeviceInfo.product, 'product');
24         expect(androidDeviceInfo.display, 'display');
25         expect(androidDeviceInfo.hardware, 'hardware');
26         expect(androidDeviceInfo.bootloader, 'bootloader');
27         expect(androidDeviceInfo.isPhysicalDevice, isTrue);
28         expect(androidDeviceInfo.fingerprint, 'fingerprint');
29         expect(androidDeviceInfo.manufacturer, 'manufacturer');
30         expect(androidDeviceInfo.supportedAbis, fakeSupportedAbis);
31         expect(androidDeviceInfo.systemFeatures, fakeSystemFeatures);
32         expect(androidDeviceInfo.supported32BitAbis, fakeSupported32BitAbis);
33         expect(androidDeviceInfo.supported64BitAbis, fakeSupported64BitAbis);
34         expect(androidDeviceInfo.version.sdkInt, 16);
35         expect(androidDeviceInfo.version.baseOS, 'baseOS');
36         expect(androidDeviceInfo.version.previewSdkInt, 30);
37         expect(androidDeviceInfo.version.release, 'release');
38         expect(androidDeviceInfo.version.codename, 'codename');
39         expect(androidDeviceInfo.version.incremental, 'incremental');
40         expect(androidDeviceInfo.version.securityPatch, 'securityPatch');
41         expect(androidDeviceInfo.displayMetrics.widthPx, 1080);
42         expect(androidDeviceInfo.displayMetrics.heightPx, 2220);
43         expect(androidDeviceInfo.displayMetrics.xDpi, 530.0859);
44         expect(androidDeviceInfo.displayMetrics.yDpi, 529.4639);
45         expect(androidDeviceInfo.serialNumber, 'SERIAL');
46       });
47
48       test('toMap should return map with correct key and map', () {
49         final androidDeviceInfo =
50           AndroidDeviceInfo.fromMap(fakeAndroidDeviceInfo);
51
52         expect(androidDeviceInfo.data, fakeAndroidDeviceInfo);
53       });
54     });
55   });
56 }
57
```

Keterangan :

Kode di atas adalah bagian dari pengujian unit untuk kelas `AndroidDeviceInfo` dalam pustaka `device_info_plus`. Ini merangkum serangkaian pengujian yang memeriksa konversi dari dan ke objek `AndroidDeviceInfo` menggunakan data palsu (dummy).

TEST=>Model => ios_device_info_test.dart

Source Code :

```
1 // ignore_for_file: deprecated_member_use_from_same_package
2
3 import 'package:device_info_plus/device_info_plus.dart';
4 import 'package:flutter_test/flutter_test.dart';
5
6 void main() {
7   group('$IosDeviceInfo', () {
8     group('fromMap | toMap', () {
9       const iosUtsnameMap = <String, dynamic>{
10         'release': 'release',
11         'version': 'version',
12         'machine': 'machine',
13         'sysname': 'sysname',
14         'nodename': 'nodename',
15       };
16       const iosDeviceInfoMap = <String, dynamic>{
17         'name': 'name',
18         'model': 'model',
19         'utsname': iosUtsnameMap,
20         'systemName': 'systemName',
21         'isPhysicalDevice': 'true',
22         'systemVersion': 'systemVersion',
23         'localizedModel': 'localizedModel',
24         'identifierForVendor': 'identifierForVendor',
25       };
26
27       test('fromMap should return $IosDeviceInfo with correct values', () {
28         final iosDeviceInfo = IosDeviceInfo.fromMap(iosDeviceInfoMap);
29
30         expect(iosDeviceInfo.name, 'name');
31         expect(iosDeviceInfo.model, 'model');
32         expect(iosDeviceInfo.isPhysicalDevice, isTrue);
33         expect(iosDeviceInfo.systemName, 'systemName');
34         expect(iosDeviceInfo.systemVersion, 'systemVersion');
35         expect(iosDeviceInfo.localizedModel, 'localizedModel');
36         expect(iosDeviceInfo.utsname.release, 'release');
37         expect(iosDeviceInfo.utsname.version, 'version');
38         expect(iosDeviceInfo.utsname.machine, 'machine');
39         expect(iosDeviceInfo.utsname.sysname, 'sysname');
40         expect(iosDeviceInfo.utsname.nodename, 'nodename');
41       });
42
43       test('toMap should return map with correct key and map', () {
44         final iosDeviceInfo = IosDeviceInfo.fromMap(iosDeviceInfoMap);
45         expect(iosDeviceInfo.data, iosDeviceInfoMap);
46       });
47     });
48   });
49 }
50
```

Keterangan :

Kode di atas adalah bagian dari pengujian unit untuk kelas IosDeviceInfo dalam pustaka device_info_plus. Ini merangkum serangkaian pengujian yang memeriksa konversi dari dan ke objek IosDeviceInfo menggunakan data palsu (dummy) untuk lingkungan sistem iOS.

TEST=>Model => Linux_device_info_test.dart

```
1 // ignore_for_file: deprecated_member_use_from_same_package
2
3 import 'package:device_info_plus/device_info_plus.dart';
4 import 'package:flutter_test/flutter_test.dart';
5
6 void main() {
7   group('$LinuxDeviceInfo', () {
8     test('toMap should return map with correct key and map', () {
9       final linuxDeviceInfo = LinuxDeviceInfo(
10         name: 'name',
11         version: 'version',
12         id: 'id',
13         idLike: ['idLike'],
14         versionCodename: 'versionCodename',
15         versionId: 'versionId',
16         prettyName: 'prettyName',
17         buildId: 'buildId',
18         variant: 'variant',
19         variantId: 'variantId',
20         machineId: 'machineId',
21       );
22
23       expect(linuxDeviceInfo.data, {
24         'name': 'name',
25         'version': 'version',
26         'id': 'id',
27         'idLike': ['idLike'],
28         'versionCodename': 'versionCodename',
29         'versionId': 'versionId',
30         'prettyName': 'prettyName',
31         'buildId': 'buildId',
32         'variant': 'variant',
33         'variantId': 'variantId',
34         'machineId': 'machineId',
35       });
36     });
37   });
38 }
39
```

Keterangan :

Kode di atas adalah bagian dari pengujian unit untuk kelas `LinuxDeviceInfo` dalam pustaka `device_info_plus`. Ini merangkum satu pengujian yang memeriksa konversi dari objek `LinuxDeviceInfo` ke peta (map) dengan menggunakan data yang ditentukan.

TEST=>Model => macos_device_info_test.dart

Source Code :

```
1 // ignore_for_file: deprecated_member_use_from_same_package
2
3 import 'package:device_info_plus/device_info_plus.dart';
4 import 'package:flutter_test/flutter_test.dart';
5
6 void main() {
7   group('$MacOsDeviceInfo', () {
8     group('fromMap | data', () {
9       const macosDeviceInfoMap = <String, dynamic>{
10         'arch': 'arch',
11         'model': 'model',
12         'activeCPUs': 4,
13         'memorySize': 16,
14         'cpuFrequency': 2,
15         'hostName': 'hostName',
16         'osRelease': 'osRelease',
17         'majorVersion': 10,
18         'minorVersion': 9,
19         'patchVersion': 3,
20         'computerName': 'computerName',
21         'kernelVersion': 'kernelVersion',
22         'systemGUID': null,
23       };
24
25       test('fromMap should return $MacOsDeviceInfo with correct values', () {
26         final macosDeviceInfo = MacOSDeviceInfo.fromMap(macosDeviceInfoMap);
27
28         expect(macosDeviceInfo.arch, 'arch');
29         expect(macosDeviceInfo.model, 'model');
30         expect(macosDeviceInfo.activeCPUs, 4);
31         expect(macosDeviceInfo.memorySize, 16);
32         expect(macosDeviceInfo.cpuFrequency, 2);
33         expect(macosDeviceInfo.hostName, 'hostName');
34         expect(macosDeviceInfo.osRelease, 'osRelease');
35         expect(macosDeviceInfo.majorVersion, 10);
36         expect(macosDeviceInfo.minorVersion, 9);
37         expect(macosDeviceInfo.patchVersion, 3);
38         expect(macosDeviceInfo.systemGUID, isNull);
39       });
40
41       test('toMap should return map with correct key and map', () {
42         final macosDeviceInfo = MacOSDeviceInfo.fromMap(macosDeviceInfoMap);
43         expect(macosDeviceInfo.data, macosDeviceInfoMap);
44       });
45     });
46   });
47 }
48
```

Keterangan :

Kode di atas adalah bagian dari pengujian unit untuk kelas MacOSDeviceInfo dalam pustaka device_info_plus. Ini merangkum serangkaian pengujian yang memeriksa konversi dari dan ke objek MacOSDeviceInfo menggunakan data yang ditentukan.

TEST=>Model => windows_device_info_test.dart

Source Code :

```
1 // ignore_for_file: deprecated_member_use_from_same_package
2
3 import 'dart:typed_data';
4 import 'package:device_info_plus/device_info_plus.dart';
5 import 'package:flutter_test/flutter_test.dart';
6
7 void main() {
8   group('$WindowsDeviceInfo', () {
9     test('toMap should return map with correct key and map', () {
10       final windowsDeviceInfo = WindowsDeviceInfo(
11         computerName: 'computerName',
12         numberOfCores: 4,
13         systemMemoryInMegabytes: 16,
14         userName: 'userName',
15         majorVersion: 10,
16         minorVersion: 0,
17         buildNumber: 10240,
18         platformId: 1,
19         csdVersion: 'csdVersion',
20         servicePackMajor: 1,
21         servicePackMinor: 0,
22         suitMask: 1,
23         productType: 1,
24         reserved: 1,
25         buildLab: '22000.co_release.210604-1628',
26         buildLabEx: '22000.1.amd64fre.co_release.210604-1628',
27         digitalProductId: Uint8List.fromList([]),
28         displayVersion: '21H2',
29         editionId: 'Pro',
30         installDate: DateTime(2022, 04, 02),
31         productId: '00000-00000-0000-AAAAA',
32         productName: 'Windows 10 Pro',
33         registeredOwner: 'registeredOwner',
34         releaseId: 'releaseId',
35         deviceId: 'deviceId',
36       );
37
38       expect(windowsDeviceInfo.data, {
39         'computerName': 'computerName',
40         'numberOfCores': 4,
41         'systemMemoryInMegabytes': 16,
42         'userName': 'userName',
43         'majorVersion': 10,
44         'minorVersion': 0,
45         'buildNumber': 10240,
46         'platformId': 1,
47         'csdVersion': 'csdVersion',
48         'servicePackMajor': 1,
49         'servicePackMinor': 0,
50         'suitMask': 1,
51         'productType': 1,
52         'reserved': 1,
53         'buildLab': '22000.co_release.210604-1628',
54         'buildLabEx': '22000.1.amd64fre.co_release.210604-1628',
55         'digitalProductId': Uint8List.fromList([]),
56         'displayVersion': '21H2',
57         'editionId': 'Pro',
58         'installDate': DateTime(2022, 04, 02),
59         'productId': '00000-00000-0000-AAAAA',
60         'productName': 'Windows 10 Pro',
61         'registeredOwner': 'registeredOwner',
62         'releaseId': 'releaseId',
63         'deviceId': 'deviceId',
64       });
65     });
66   });
67 }
68
```

Keterangan :

Kode di atas adalah bagian dari pengujian unit untuk kelas WindowsDeviceInfo dalam pustaka device_info_plus. Ini merangkum satu pengujian yang memeriksa konversi dari objek WindowsDeviceInfo ke peta (map) dengan menggunakan data yang ditentukan.

MACOS=> Classes => Src => device_info_plus.podspec

Source Code :

```
1 # To learn more about a Podspec see http://guides.cocoapods.org/syntax/podspec.html
2 #
3 Pod::Spec.new do |s|
4   s.name             = 'device_info_plus'
5   s.version          = '0.0.1'
6   s.summary          = 'No-op implementation of the macos device_info_plus to avoid build issues on macos'
7   s.description      = <<-DESC
8   No-op implementation of the device_info_plus plugin to avoid build issues on macos.
9   https://github.com/flutter/flutter/issues/46618
10   DESC
11   s.homepage         = 'https://github.com/fluttercommunity/plus_plugins/tree/master/packages/device_info_plus'
12   s.license          = { :file => '../LICENSE' }
13   s.author           = { 'Flutter Community' => 'authors@fluttercommunity.dev' }
14   s.source           = { :path => '.' }
15   s.source_files     = 'Classes/**/*'
16   s.public_header_files = 'Classes/**/*.h'
17   s.dependency       'FlutterMacOS'
18
19   s.platform = :osx
20   s.osx.deployment_target = '10.11'
21 end
22
```

```
1 import 'package:device_info_plus/src/model/web_browser_info.dart';
2 import 'package:flutter_test/flutter_test.dart';
3
4 void main() {
5   test('WebBrowserInfo from Map with values', () {
6     final info = WebBrowserInfo.fromMap(
7       {
8         'appCodeName': 'CODENAME',
9         'appName': 'NAME',
10        'appVersion': 'VERSION',
11        'deviceMemory': 64,
12        'language': 'en',
13        'languages': ['en', 'es'],
14        'platform': 'PLATFORM',
15        'product': 'PRODUCT',
16        'productSub': 'PRODUCTSUB',
17        'userAgent':
18          'Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:61.0) Gecko/20100101 Firefox/61.0',
19        'vendor': 'VENDOR',
20        'vendorSub': 'VENDORSUB',
21        'hardwareConcurrency': 1,
22        'maxTouchPoints': 2,
23      },
24    );
25
26    expect(info.appName, 'NAME');
27    expect(info.browserName, BrowserName.firefox);
28  });
29
30  test('WebBrowserInfo from empty map', () {
31    final info = WebBrowserInfo.fromMap({});
32
33    expect(info.appName, isNull);
34    expect(info.browserName, BrowserName.unknown);
35  });
36 }
37
```

Keterangan :

Kode tersebut adalah bagian dari pengujian unit untuk kelas WebBrowserInfo dalam pustaka device_info_plus. Ini merangkum dua pengujian yang memeriksa fungsionalitas kelas WebBrowserInfo dalam mengambil informasi tentang peramban web.

Pubspec.yaml

Source Code :

```
1 name: device_info_plus
2 description: Flutter plugin providing detailed information about the device
3   (make, model, etc.), and Android or iOS version the app is running on.
4 version: 8.2.2
5 homepage: https://plus.fluttercommunity.dev/
6 repository: https://github.com/fluttercommunity/plus_plugins/tree/main/packages/device_info_plus
7 issue_tracker: https://github.com/fluttercommunity/plus_plugins/labels/device_info_plus
8
9 flutter:
10   plugin:
11     platforms:
12       android:
13         package: dev.fluttercommunity.plus.device_info
14         pluginClass: DeviceInfoPlusPlugin
15       ios:
16         pluginClass: FLTDeviceInfoPlusPlugin
17       linux:
18         dartPluginClass: DeviceInfoPlusLinuxPlugin
19       web:
20         pluginClass: DeviceInfoPlusWebPlugin
21         fileName: src/device_info_plus_web.dart
22       macos:
23         pluginClass: DeviceInfoPlusMacosPlugin
24       windows:
25         dartPluginClass: DeviceInfoPlusWindowsPlugin
26
27 dependencies:
28   device_info_plus_platform_interface: ^7.0.0
29   ffi: ^2.0.1
30   file: ^6.0.0
31   flutter:
32     sdk: flutter
33   flutter_web_plugins:
34     sdk: flutter
35   meta: ^1.3.0
36   win32: ">=2.7.0 <5.0.0"
37
38 dev_dependencies:
39   flutter_lints: ^2.0.1
40   flutter_test:
41     sdk: flutter
42   mockito: ^5.0.0
43   test: ^1.16.4
44
45 environment:
46   sdk: ">=2.12.0 <3.0.0"
47   flutter: ">=2.11.0"
48
```

SEKIAN DAN TERIMAKASIH

