ACARA 2 : SQFLITE FLUTTER

Pokok Bahasan : SQFLITE FLUTTER

Acara Praktikum/Pertemuan : Minggu 9

Tempat : Daring / Luring Politeknik Negeri Jember

Alokasi Waktu : 3x50 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami konsep dasar penggunaan SQFLITE FLUTTER.

- 2. Mahasiswa mampu menggunakan dan menerapkan SQFLITE FLUTTER.
- 3. Mahasiswa mampu menggunakan dan menerapkan SQFLITE FLUTTER.

b. Indikator

Kemampuan mahasiswa dalam memahami dan menerapkan konsep serta penggunaan SQFLITE FLUTTER untuk CRUD .

c. Dasar Teori

-

d. Alat dan Bahan

- 1. Notebook
- 2. Aplikasi Visual Studio Code / Andorid Studio
- 3. Hive
- 4. HP Android
- 5. Kabel Data

e. Prosedur Kerja

- 1. Buat project baru dengan nama sqflite_flutter.
- 2. Tambahkan dependencies sqflite dan path pada file pubspec.yaml dan jalankan perintah flutter pub get pada terminal.

```
READMEmd × Manindant × Apubspecyaml × Asq.helper.dant ×

Flutter commands

# consider running 'flutter pub upgrade --major-versions'. Alternatively,
# dependencies can be manually updated by changing the version numbers below to
# the latest version available on pub.dev. To see which dependencies have newer

# versions available, run 'flutter pub outdated'.

dependencies:

# versions available, run 'flutter pub outdated'.

dependencies:

# run 'glutter'

adaptate:

# The following adds the Cupertino Icons font to your application.

# Use with the CupertinoIcons class for iOS style icons.

cupertino_icons: ^1.0.2

dev_dependencies:

# The "flutter_test:

# Sdk: flutter

# The "flutter_lints" package below contains a set of recommended lints to
# encourage good coding practices. The lint set provided by the package is
# activated in the 'analysis_options. yaml' file located at the root of your
# package. See that file for information about deactivating specific lint
# rules and activating additional ones.

# consider running 'flutter pub outdated'.

# rules and activating additional ones.
```

3. Ubah kode pada kelas MyApp menjadi seperti berikut.

4. Buat stateful widget dengan nama HomePage dan isikan kodenya menjadi seperti berikut.

```
class HomePage extends StatefulWidget {
  const HomePage({Key? key}) : super(key: key);

  @override
  _HomePageState createState() => _HomePageState();
}
```

```
List<Map<String, dynamic>> journals = [];
    final data = await SQLHelper.getItems();
  void initState() {
    super.initState();
  final TextEditingController titleController =
TextEditingController();
TextEditingController();
  void showForm(int? id) async {
          padding: EdgeInsets.only(
          child: Column (
            children: [
              TextField(
                controller: titleController,
                decoration: const InputDecoration(hintText: 'Title'),
```

```
TextField(
            controller: descriptionController,
            decoration: const InputDecoration(hintText:
await SQLHelper.createItem(
refreshJournals();
await SQLHelper.updateItem(
await SQLHelper.deleteItem(id);
ScaffoldMessenger.of(context).showSnackBar(const SnackBar(
```

```
Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
      child: CircularProgressIndicator(),
       child: ListTile(
    floatingActionButton: FloatingActionButton(
```

- 5. Buat file sql_helper.dart di dalam folder lib dan import ke ke dalam main.dart.
- 6. Isikan kode sql_helper.dart seperti berikut.

```
import 'package:flutter/foundation.dart';
import 'package:sqflite/sqflite.dart' as sql;
class SQLHelper {
```

```
return sql.openDatabase(
      await createTables(database);
static Future<List<Map<String, dynamic>>> getItems() async {
  final db = await SQLHelper.db();
static Future<List<Map<String, dynamic>>> getItem(int id) async {
  final db = await SQLHelper.db();
static Future<int> updateItem(
  final db = await SQLHelper.db();
```

```
 'description': descrption,
    'createdAt': DateTime.now().toString()
    };
    final result =
    await db.update('items', data, where: "id = ?", whereArgs: [id]);
    return result;
}

// Delete
static Future<void> deleteItem(int id) async {
    final db = await SQLHelper.db();
    try {
       await db.delete("items", where: "id = ?", whereArgs: [id]);
    } catch (err) {
       debugPrint("Something went wrong when deleting an item: $err");
    }
}
```

- 7. Jalankan aplikasi pada emulator atau real device. Sqflite ini tidak support dijalankan pada web browser.
- 8. Jika tidak ada error akan tampil seperti berikut.

