can you help me build a flutter application that gets data from excel to a datatable

**ChatGPT dijo:**

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Absolutely! I can help you build a Flutter application that reads data from an Excel file and displays it in a DataTable. To do this, you'll need the following steps:

**1. Add dependencies**

You will need two main dependencies in your pubspec.yaml file:

* excel for reading Excel files
* flutter for the app itself
* path\_provider for accessing file storage (useful for file pickers)

Here’s an example of what the pubspec.yaml dependencies might look like:

yaml

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dependencies:

flutter:

sdk: flutter

excel: ^2.0.7

path\_provider: ^2.0.10

file\_picker: ^5.0.0

Run flutter pub get to install these dependencies.

**2. Create a File Picker to load Excel files**

We'll use the file\_picker package to allow the user to select an Excel file from their device.

**3. Read the Excel file**

We'll use the excel package to load and read the contents of the Excel file. This package can handle .xls and .xlsx files.

**4. Display the Data in a DataTable**

We'll use Flutter's DataTable widget to display the data.

**Here's the code to get you started:**

**main.dart**

dart

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import 'dart:io';

import 'package:flutter/material.dart';

import 'package:file\_picker/file\_picker.dart';

import 'package:path\_provider/path\_provider.dart';

import 'package:excel/excel.dart';

void main() {

runApp(MyApp());

}

class MyApp extends StatelessWidget {

@override

Widget build(BuildContext context) {

return MaterialApp(

title: 'Excel to DataTable',

theme: ThemeData(

primarySwatch: Colors.blue,

),

home: ExcelToDataTablePage(),

);

}

}

class ExcelToDataTablePage extends StatefulWidget {

@override

\_ExcelToDataTablePageState createState() => \_ExcelToDataTablePageState();

}

class \_ExcelToDataTablePageState extends State<ExcelToDataTablePage> {

List<List<Data?>> dataRows = [];

// Function to pick and read an Excel file

Future<void> pickAndReadExcelFile() async {

// Use file\_picker to pick an Excel file

FilePickerResult? result = await FilePicker.platform.pickFiles(

type: FileType.custom,

allowedExtensions: ['xls', 'xlsx'],

);

if (result != null) {

// Get the picked file

File file = File(result.files.single.path!);

// Read the Excel file

var bytes = file.readAsBytesSync();

var excel = Excel.decodeBytes(bytes);

// Process the Excel sheets

List<List<Data?>> rows = [];

for (var table in excel.tables.keys) {

var sheet = excel.tables[table];

if (sheet != null) {

for (var row in sheet.rows) {

rows.add(row);

}

}

}

setState(() {

dataRows = rows;

});

}

}

@override

Widget build(BuildContext context) {

return Scaffold(

appBar: AppBar(

title: Text('Excel to DataTable'),

),

body: Padding(

padding: const EdgeInsets.all(16.0),

child: Column(

children: [

ElevatedButton(

onPressed: pickAndReadExcelFile,

child: Text('Pick an Excel File'),

),

SizedBox(height: 20),

if (dataRows.isNotEmpty)

SingleChildScrollView(

scrollDirection: Axis.horizontal,

child: DataTable(

columns: dataRows.isNotEmpty

? dataRows[0]

.map((e) => DataColumn(label: Text(e?.value.toString() ?? '')))

.toList()

: [],

rows: dataRows

.skip(1) // Skip the first row as it is the header

.map(

(row) => DataRow(

cells: row

.map(

(e) => DataCell(Text(e?.value.toString() ?? '')),

)

.toList(),

),

)

.toList(),

),

),

if (dataRows.isEmpty)

Center(child: Text('No data available, please pick an Excel file.')),

],

),

),

);

}

}

**Key Sections of the Code:**

1. **File Picker**:
   * We use file\_picker to let the user select an .xlsx or .xls file. When a file is selected, its bytes are read into memory.
2. **Reading Excel**:
   * We use excel.decodeBytes() to decode the byte data of the Excel file.
   * The data is stored in a list of lists (List<List<Data?>>) where each inner list represents a row from the Excel sheet.
3. **Displaying Data in a DataTable**:
   * The DataTable widget is used to display the contents of the Excel file. The first row (headers) is used to create the columns.
   * Subsequent rows are added to the table as DataRow items.

**Notes:**

* **File Handling**: The app uses the FilePicker package to select the file and then reads the content into memory.
* **DataTable Display**: The DataTable widget is scrollable horizontally, which is useful if you have many columns.
* **Excel Parsing**: The rows and columns are parsed dynamically, so if your Excel data changes structure, the table will adapt.

**5. Testing the Application:**

You can now test this by running the app on a device/emulator and selecting an Excel file. The content should load into the DataTable.

**Potential Improvements:**

* Handle large Excel files more efficiently by reading and processing in chunks.
* Implement error handling (e.g., if the file is not a valid Excel file).
* Customize the UI for a more refined user experience (e.g., by adding column headers dynamically, and handling cases where Excel sheets have no data).

Let me know if you need any further modifications!