全人照護用藥之智慧整合
攝護腺肥大自我照顧APP

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Online Live Virtual Demo

Outline

- Idea Proposal

- Program Architecture

- Exploratory Approaches in UI/UX Design

- Fun Data from Our Project!

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Idea Proposal: 國際攝護腺症狀評分表（**International Prostate Symptoms Score, IPSS**）

- 出自美國泌尿科醫學會，主要用於評估攝護腺肥大（BPH）病人的症狀嚴重程度

- 自我評估攝護腺肥大7大症狀

評分標準	0分 😊 1分	2分 😐 3分	4分 ☹ 5分	得分
	從來沒有 / 幾乎沒有	少於一半 / 大約一半	大於一半 / 幾乎總是	

排尿症狀

尿流細小	排尿流速變慢、細小無力	⭕
出力解尿	解尿時需借助肚子出力	⭕
排尿中斷	排尿時，尿流會中斷再繼續	⭕
排尿不清	排尿完畢卻仍有尿液未排空的感覺	⭕

儲尿症狀

頻尿	排尿完畢未滿兩小時再去排尿的狀況	⭕
急尿	難以忍受須立即排尿的感受	⭕
夜尿	在夜晚入睡期間，需要起床小便幾次	⭕

依據此評量表可判斷排尿或儲存尿液的症狀嚴重程度。

總分 [   ]

輕度：0-7；中度：8-19；重度：20-35

Outline

國立成功大學
臨床藥學與藥物科技研究所

國立成功大學醫學院附設醫院
National Cheng Kung University Hospital

Program Architecture: Overview
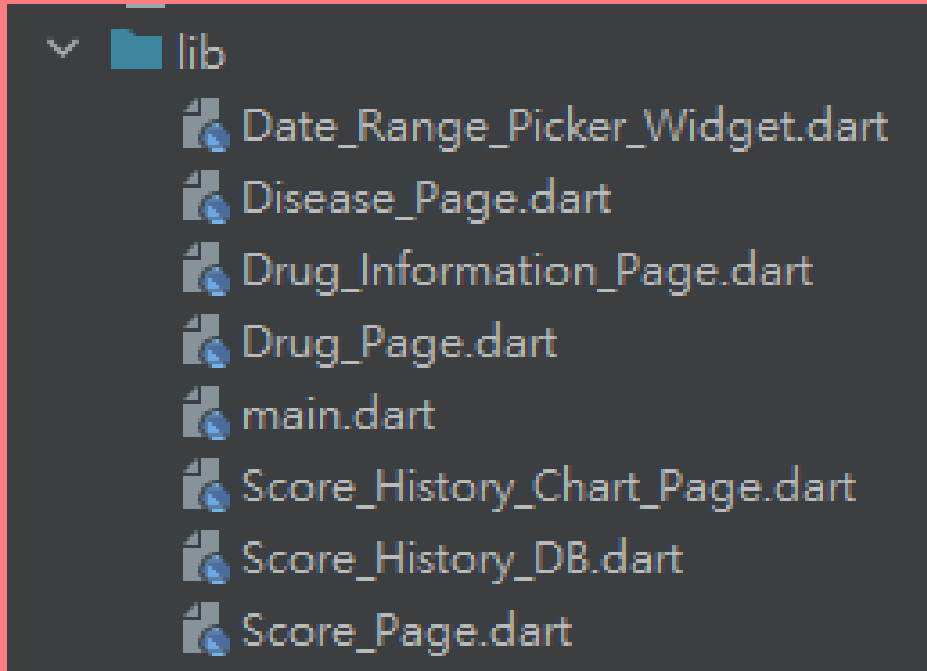
Program Architecture: main.dart

```dart
// Define pages here.
final List<Widget> _pages = <Widget>[  // use the final keywor
  const DiseasePage(),  // 首頁的第1個按鈕: Disease，點進去的介面
  // Constructors in '@immutable' classes should be declared a
  const DrugHomePage(title: 'Drug List'), // 首頁的第2個按鈕: Me
  const ScorePage(),  // 首頁的第3個按鈕: Records，點進去的介面(使用
];
```

```dart
void navigateToHistoryPage(BuildContext context) {  // navi
  Navigator.push(
    context,
    MaterialPageRoute(builder: (context) => ScoreHistoryDBP
  );
}
```

```dart
Positioned(
  right: 16.0,  // 這是 FloatingActionButton 的默認右側邊距
  bottom: 5.0,  // 下移 FloatingActionButton
  child: FloatingActionButton(  // floatingActionButton 是一個浮動操作按鈕
    // 當按下時，會執行 navigateToHistoryPage 函式，這可能是導航到一個歷史記錄頁面的操作。
    onPressed: () {
      navigateToHistoryPage(context);
    },
    child: Icon(Icons.history),
  ),
),
```

Program Architecture: Disease_Page.dart

AppBar

ListView

Cards
Cards display content and actions about a single subject

ElevatedCard

canLaunchUrl & launchUrl

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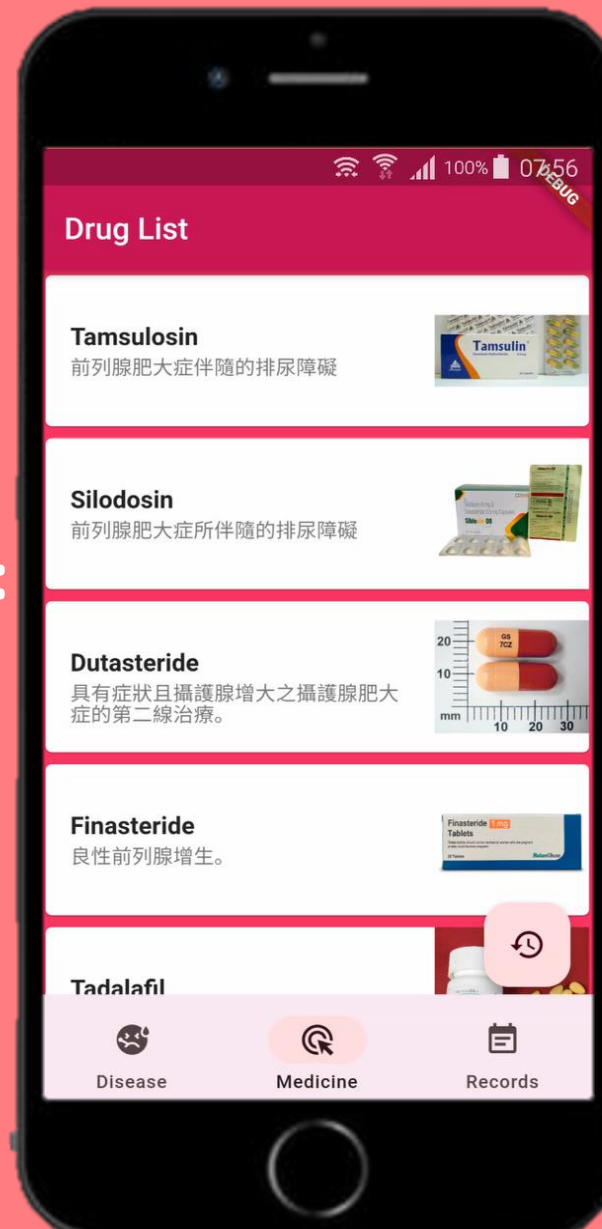
Program Architecture:
Drug_Page.dart
Drug_Information_Page.dart

Program Architecture: Score_Page.dart

```dart
1  import 'package:flutter/material.dart';
2  import 'Score_History_DB.dart';
3  import 'package:fl_chart/fl_chart.dart';
4  import 'Score_History_Chart_Page.dart';
5
6  // 使用 Flutter 框架來定義一個具有狀態（State）
7  // 這個小部件的主要功能是顯示分數頁面
8  //通過在構造函式中使用 key，可以對小部件進行識別
9  //並且當創建 ScorePage 小部件時，會返回一個 Sco
10 class ScorePage extends StatefulWidget {..
18
19 // 定義了一個 Dart 類別 Question，用於封裝表示
20 // 其中包含每個問題的詳細信息（包括問題內容、選項和
21 // 這種設計可以方便地將問題的相關數據組織起來，例
22 class Question {...}
31
32 // 主程式
33 // 定義了一個名為 ScorePageState 的狀態類別，該
34 // 這個頁面包括多個問題，每個問題都有選項供用戶選
35 // 此外，它還提供了保存分數和日期，以及查看分數歷
36 class ScorePageState extends State<ScorePa
280
```

Program Architecture : Score_History_DB.dart
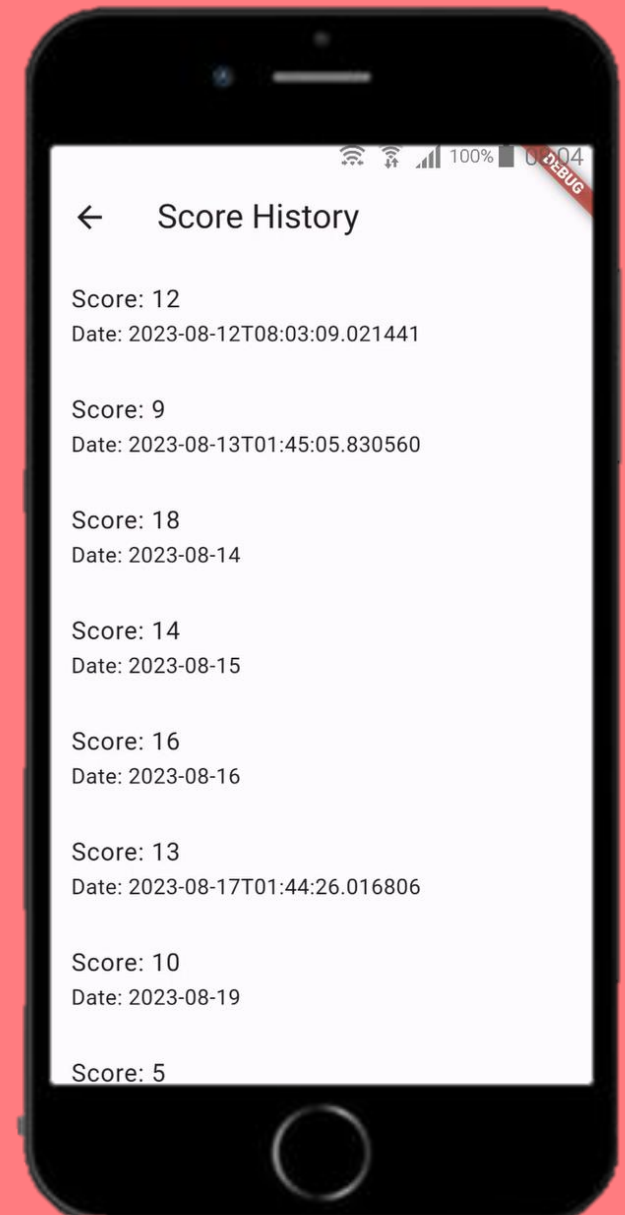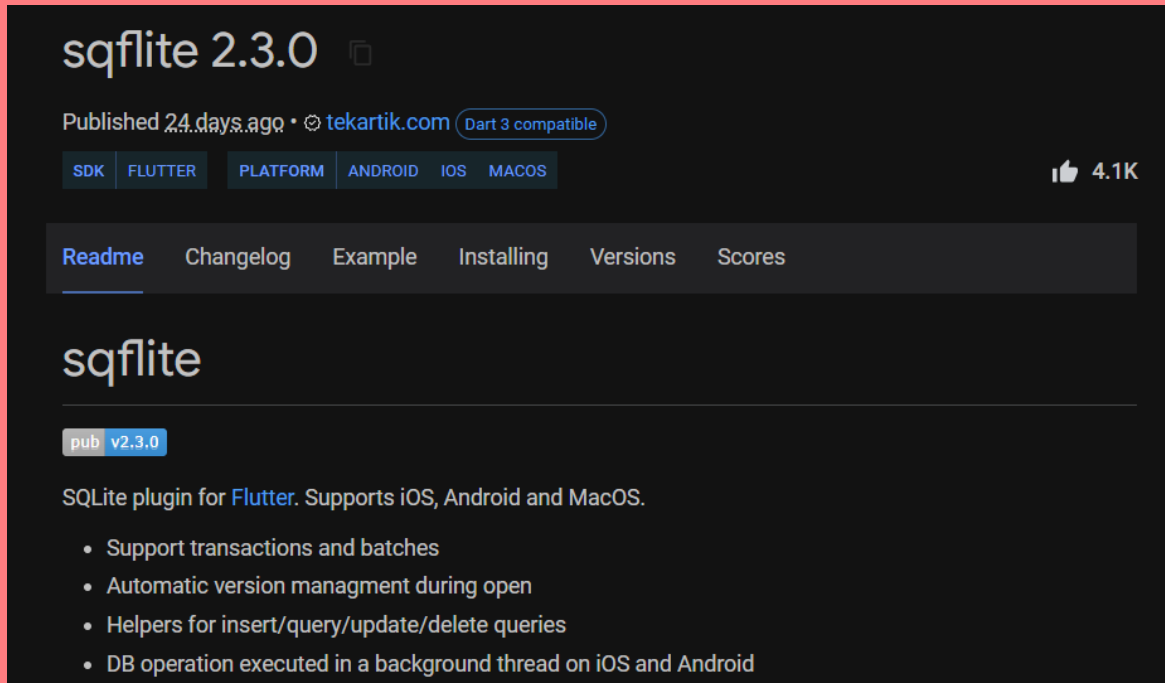
Program Architecture : Score_History_Chart_Page.dart
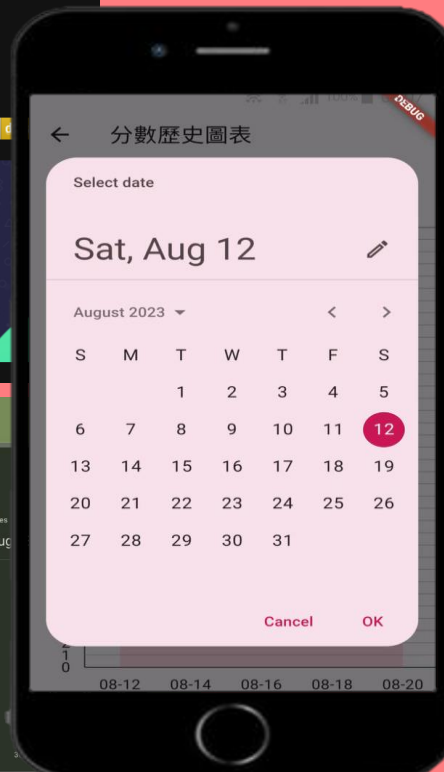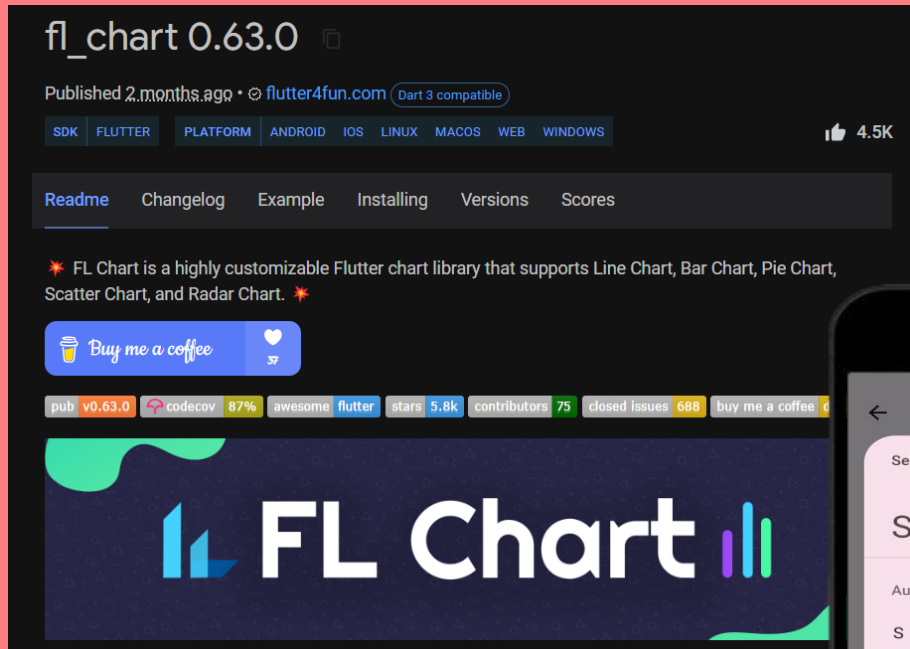
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Exploratory Approaches in UI/UX Design

Questionnaire Design

v2: Widget buildQuestionWithMenu

v1: Widget buildQuestion

Better ! !

Scroll-down response

Employing ListView.builder for dynamic scrolling to accommodate multiple questions

Expanding to multiple questions

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Fun Data from Our Project!

- Numbers of dart file: 7 (excluding main.dart)

- Numbers of class: 18 (excluding main.dart)

- Time Spent on App Construction: 2 weeks, 100~105 hrs

Thank You!!

Backup
Components – Material Design 3

Components are interactive building blocks for creating a user interface. They can be organized into categories based on their purpose: Action, containment, communication, navigation, selection, and text input.

Components共有5大類:

Action components help people achieve an aim.

1. Communication components provide helpful information.
2. Containment components hold information and actions – including other components like buttons, menus, or chips.
3. Navigation components help people move through the UI.
4. Selection components let people specify choices.
5. Text input components let people enter and edit text.
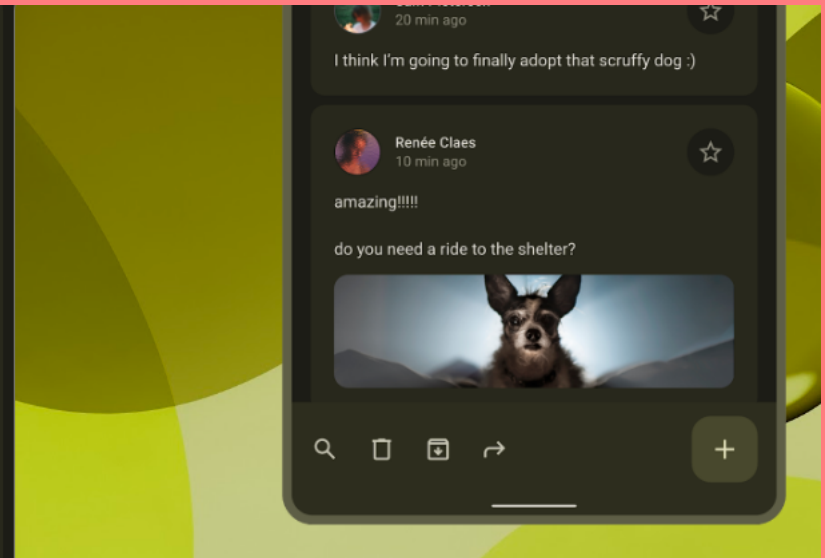
Badges

Badges show notifications, counts, or status information on navigation items and icons
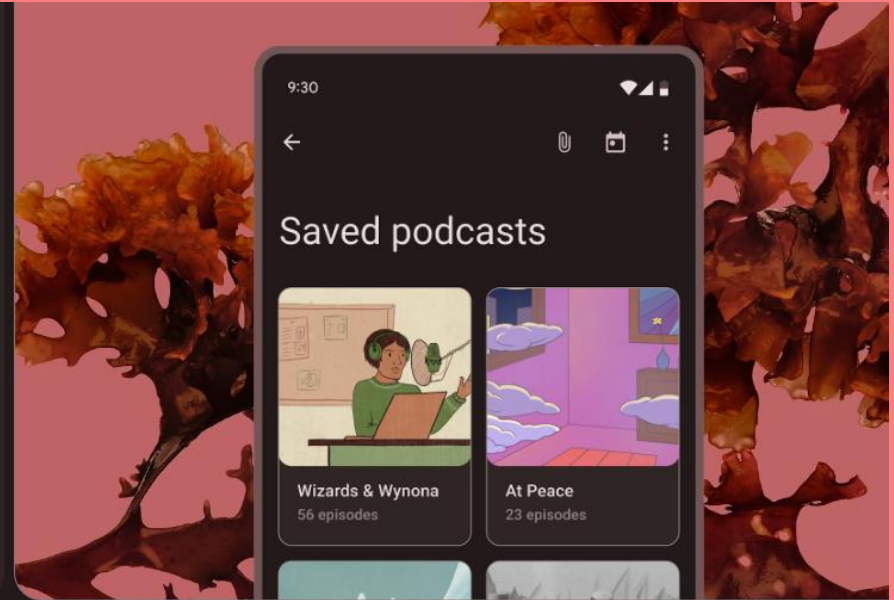

Bottom app bar

Bottom app bars display navigation and key actions at the bottom of mobile and tablet screens
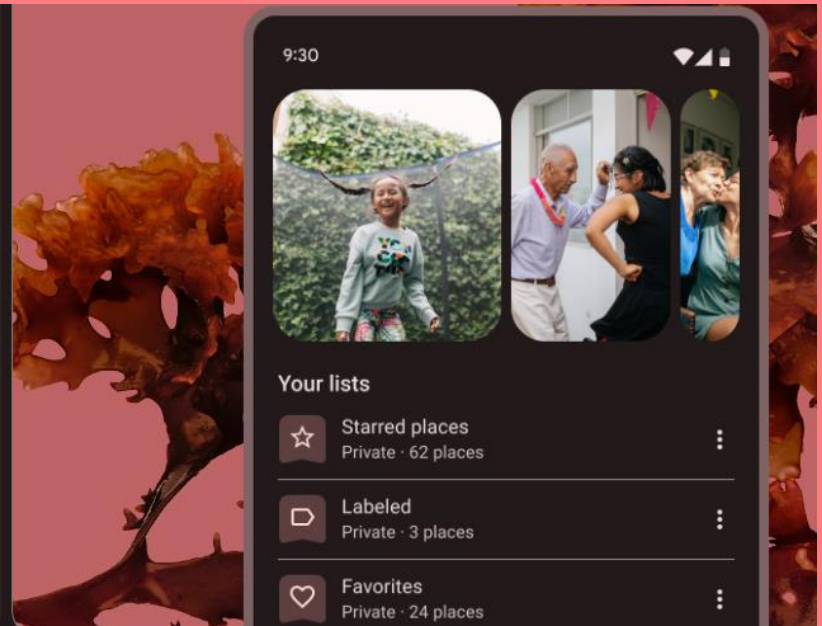
Cards

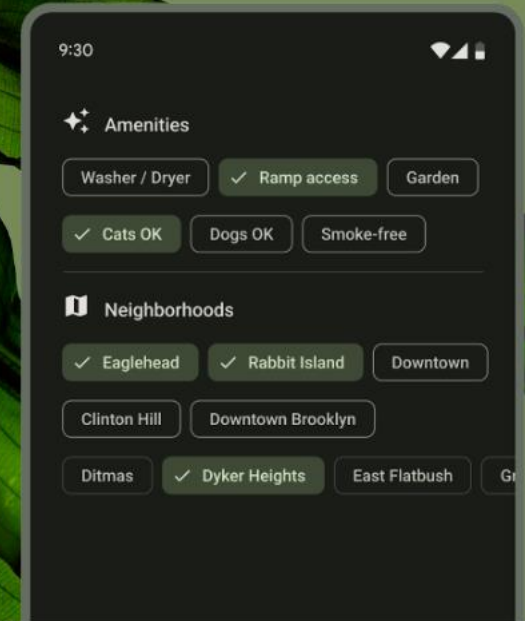Cards display content and actions about a single subject

Carousel

Carousels show a collection of items that can be scrolled on and off the screen

Chips

Chips help people enter information, make selections, filter content, or trigger actions
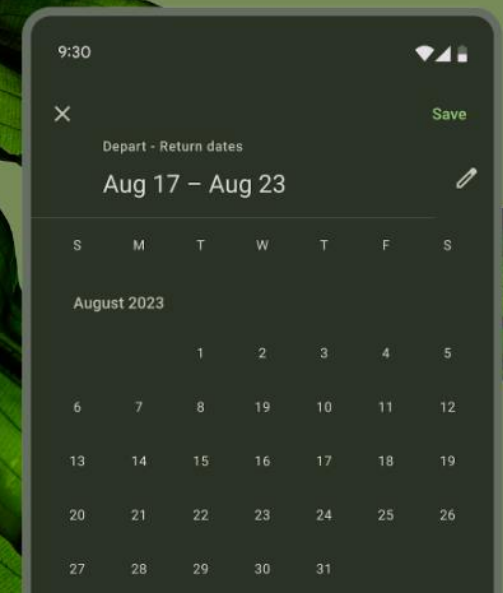
Date pickers

Date pickers let people select a date, or a range of dates