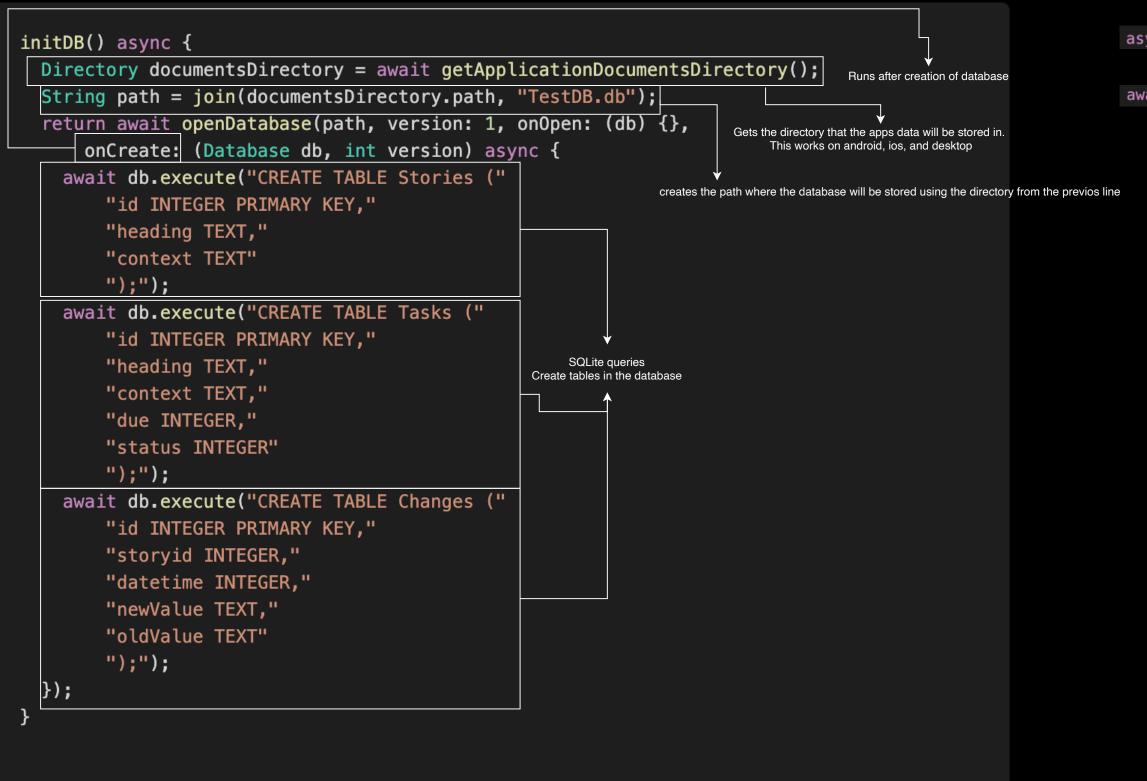
## Get flora and fauna data

```
import 'dart:async';
import 'dart:convert';
                                                                         → Packages used
import 'package:http/http.dart' as http;
Future<FloraFauna> fetchFloraFauna() async {
  final response =
      await http.get(
'https://apps.des.qld.gov.au/species/?op=getkingdomnames&f=json'
);
  if (response.statusCode == 200) {
                                                                              → get response from URL
   // If the server did return a 200 OK response,
   // then parse the JSON.
   return FloraFauna.fromJson(json.decode(response.body));
  } else {
                                                                                           If the server returned a 0K response, return the body of the respose
   // If the server did not return a 200 OK response,
                                                                                                                Else, throw an exception
   // then throw an exception.
   throw Exception('Failed to load FloraFauna');
class FloraFauna {
  final List kingdom;
 FloraFauna({ this.kingdom});
                                                                  The FloraFauna Class. Parses JSON data.
  factory FloraFauna.fromJson(Map<String, dynamic> json) {
    return FloraFauna(
      kingdom: json['Kingdom'],
    );
```

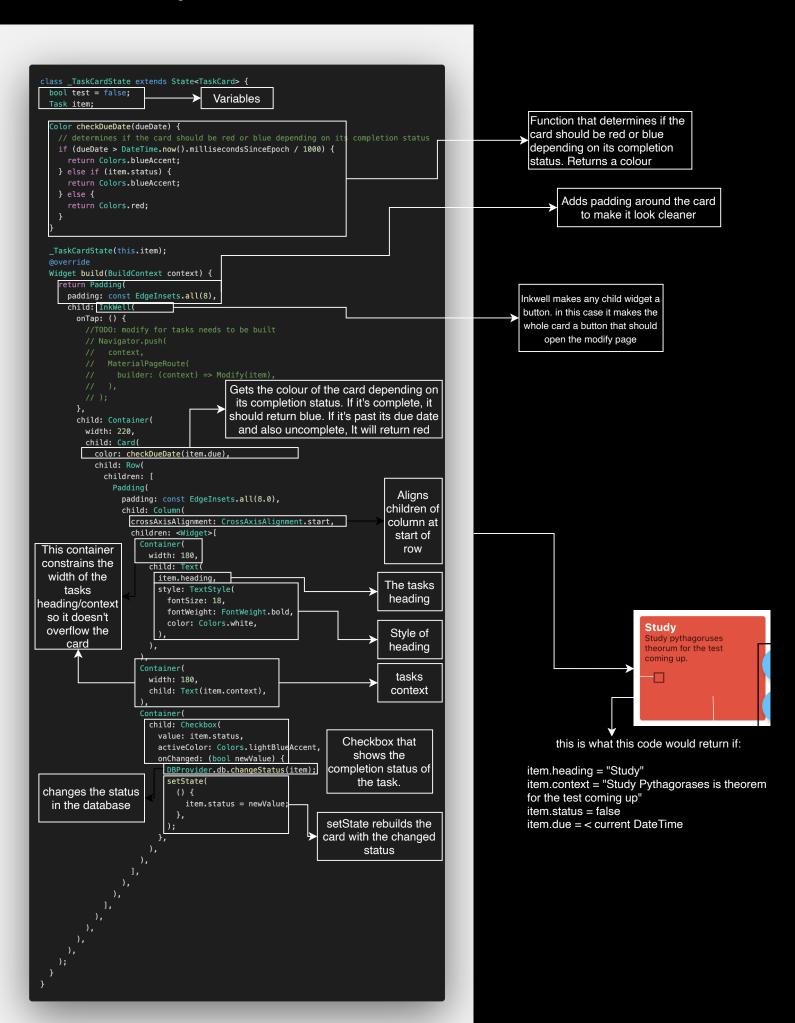
## Initialise database



async Means the code in the function will run asynchronously.

await Program will await completion of this task before continueing.
can only be used in flucitons marked as async

This is the card that is generated for each task. Stories use a similar card



```
newTask(Task newTask) async {
    final db = await database;
                                                                      Gets database
    //get the biggest id in the table
    var table = await db.rawQuery(
                                                                 Gets the id fot the new task.
"SELECT MAX(id)+1 as id FROM Tasks");
                                                                     current biggest ID + 1
    int id = table.first["id"];
    //insert to the table using the new id
    var raw = await db.rawInsert(
"INSERT Into Tasks (id,heading,context,due,status)"
        " VALUES (?,?,?,?)",
                                                                           → SQLite query
          id,
          newTask.heading,
          newTask.context,
                                                                         → Insert new task
          newTask.due,
          newTask.status,
        1);
                                                                       Values to insert.
    return raw;
                                                                 They replace the? in the query
```