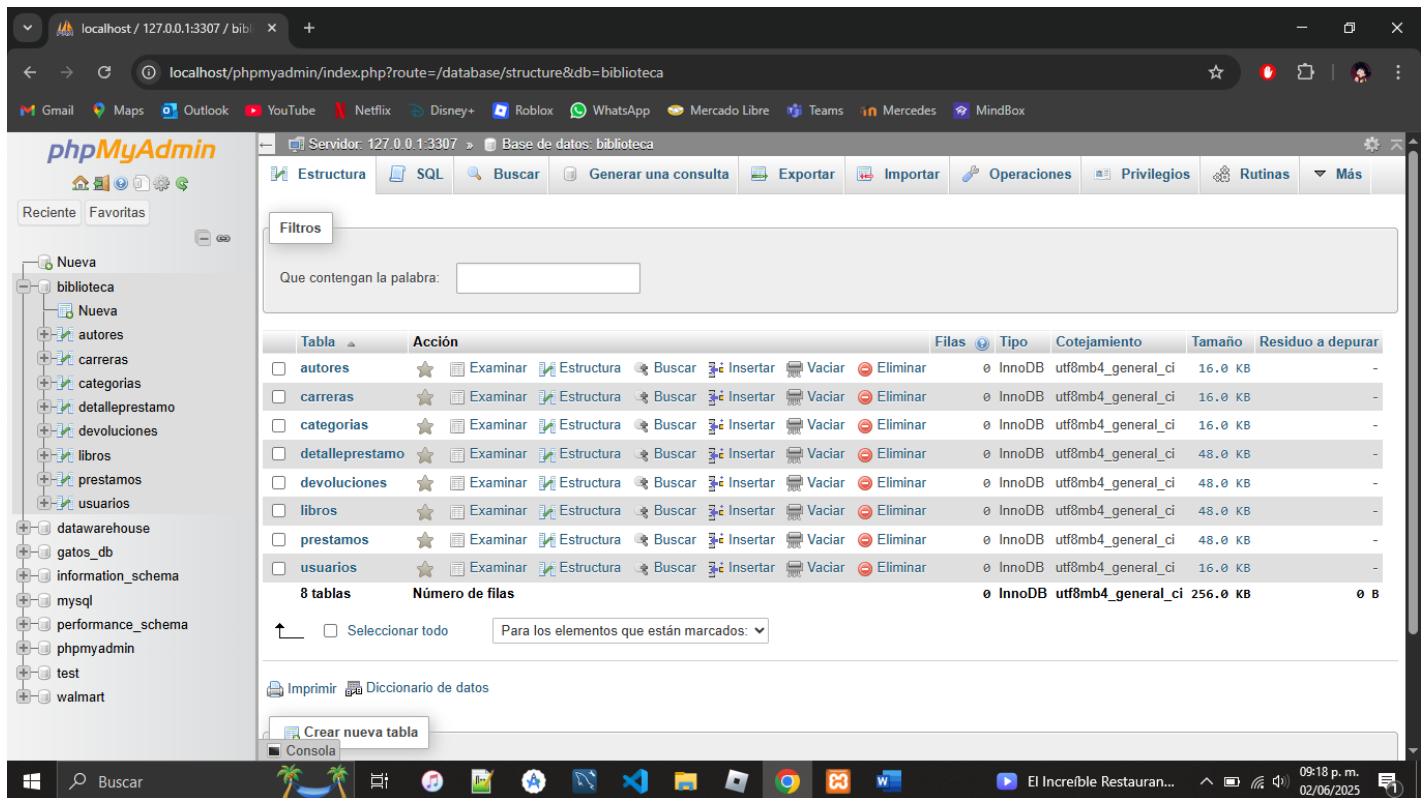
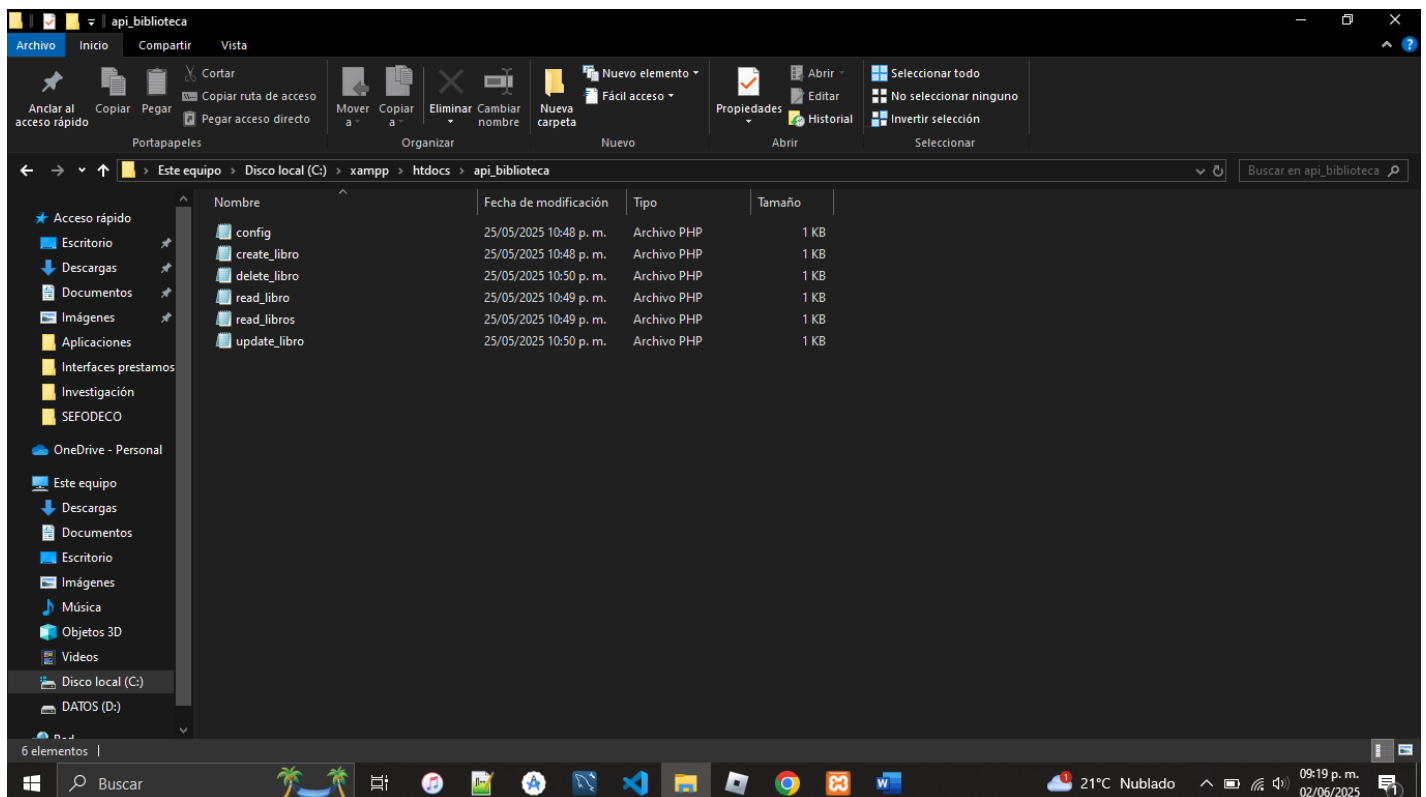


Base de datos “Biblioteca” creada en phpmyadmin desde XAMPP.

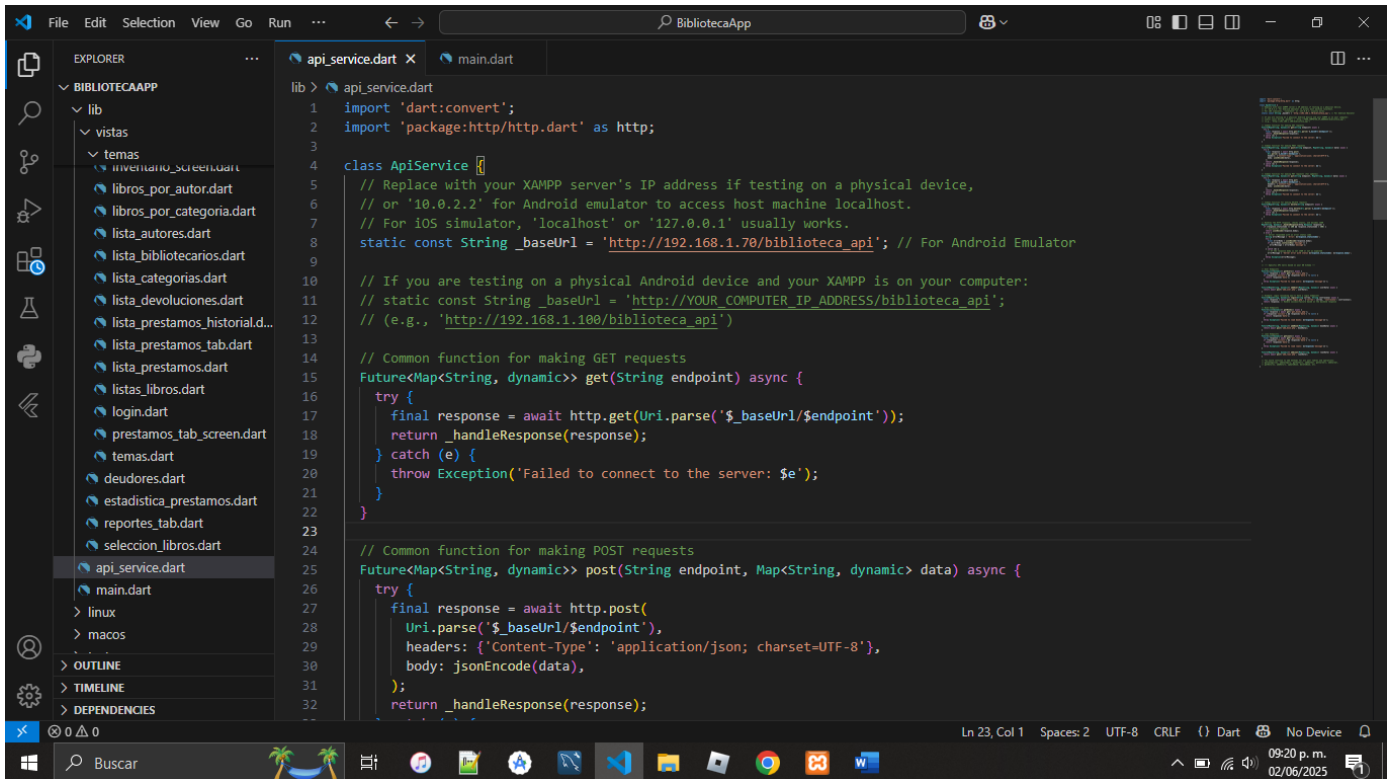


Archivos .php para crear la conexión con la base de datos y llamar las funciones.



**Evidencias – Kevin Naim Diaz Memije**

ApiService creada para hacer la conexión entre el programa y la base de datos en XAMPP.



```
lib > api_service.dart
1  import 'dart:convert';
2  import 'package:http/http.dart' as http;
3
4  class ApiService {
5      // Replace with your XAMPP server's IP address if testing on a physical device,
6      // or '10.0.2.2' for Android emulator to access host machine localhost.
7      // For iOS simulator, 'localhost' or '127.0.0.1' usually works.
8      static const String _baseUrl = 'http://192.168.1.70/biblioteca_api'; // For Android Emulator
9
10     // If you are testing on a physical Android device and your XAMPP is on your computer:
11     // static const String _baseUrl = 'http://YOUR_COMPUTER_IP_ADDRESS/biblioteca_api';
12     // (e.g., 'http://192.168.1.100/biblioteca_api')
13
14     // Common function for making GET requests
15     Future<Map<String, dynamic>> get(String endpoint) async {
16         try {
17             final response = await http.get(Uri.parse('${_baseUrl}$endpoint'));
18             return _handleResponse(response);
19         } catch (e) {
20             throw Exception('Failed to connect to the server: $e');
21         }
22     }
23
24     // Common function for making POST requests
25     Future<Map<String, dynamic>> post(String endpoint, Map<String, dynamic> data) async {
26         try {
27             final response = await http.post(
28                 Uri.parse('${_baseUrl}$endpoint'),
29                 headers: {'Content-Type': 'application/json; charset=UTF-8'},
30                 body: jsonEncode(data),
31             );
32             return _handleResponse(response);
33         } catch (e) {
34             throw Exception('Failed to connect to the server: $e');
35         }
36     }
37 }
```

Código en cuestión:

```
import 'dart:convert';
import 'package:http/http.dart' as http;

class ApiService {

    // Replace with your XAMPP server's IP address if testing on a physical device,
    // or '10.0.2.2' for Android emulator to access host machine localhost.
    // For iOS simulator, 'localhost' or '127.0.0.1' usually works.

    static const String _baseUrl = 'http://192.168.1.70/biblioteca_api'; // For
Android Emulator

    // If you are testing on a physical Android device and your XAMPP is on your
computer:

    // static const String _baseUrl =
'http://YOUR_COMPUTER_IP_ADDRESS/biblioteca_api';
```

```

// (e.g., 'http://192.168.1.100/biblioteca_api')

// Common function for making GET requests
Future<Map<String, dynamic>> get(String endpoint) async {
  try {
    final response = await http.get(Uri.parse('${_baseUrl}/${endpoint}'));
    return _handleResponse(response);
  } catch (e) {
    throw Exception('Failed to connect to the server: $e');
  }
}

// Common function for making POST requests
Future<Map<String, dynamic>> post(String endpoint, Map<String, dynamic> data)
async {
  try {
    final response = await http.post(
      Uri.parse('${_baseUrl}/${endpoint}'),
      headers: {'Content-Type': 'application/json; charset=UTF-8'},
      body: jsonEncode(data),
    );
    return _handleResponse(response);
  } catch (e) {
    throw Exception('Failed to connect to the server: $e');
  }
}

// Common function for making PUT requests (for updates)
Future<Map<String, dynamic>> put(String endpoint, Map<String, dynamic> data)
async {
  try {
    final response = await http.put(
      Uri.parse('${_baseUrl}/${endpoint}'),
      headers: {'Content-Type': 'application/json; charset=UTF-8'},

```

```

        body: jsonEncode(data),
    );
    return _handleResponse(response);
} catch (e) {
    throw Exception('Failed to connect to the server: $e');
}
}

// Common function for making DELETE requests
Future<Map<String, dynamic>> delete(String endpoint) async {
    try {
        final response = await http.delete(Uri.parse('$_baseUrl/$endpoint'));
        return _handleResponse(response);
    } catch (e) {
        throw Exception('Failed to connect to the server: $e');
    }
}

// Handles the HTTP response, checks status, and decodes JSON
Map<String, dynamic> _handleResponse(http.Response response) {
    if (response.statusCode >= 200 && response.statusCode < 300) {
        // Successful response
        return jsonDecode(response.body);
    } else {
        // Server responded with an error status code
        String errorMessage = 'Error: ${response.statusCode}';
        try {
            final errorBody = jsonDecode(response.body);
            if (errorBody.containsKey('message')) {
                errorMessage = errorBody['message'];
            }
        } catch (e) {
            // If the response body is not JSON or not as expected

```

```

        errorMessage = 'Server error with status ${response.statusCode}:
${response.body}';

    }

    throw Exception(errorMessage);

}

}

// --- Specific API Calls based on your DB Schema ---

// User Endpoints
Future<List<dynamic>> getUsers() async {
    final response = await get('get_users.php');
    if (response['success'] && response['data'] != null) {
        return response['data'];
    }
    throw Exception('Failed to load users: ${response['message']}');
}

Future<Map<String, dynamic>> addUser(Map<String, dynamic> userData) async {
    return await post('add_user.php', userData);
}

// Example: Login (assuming you'll have a login endpoint)
Future<Map<String, dynamic>> login(String correo, String contrasena) async {
    final response = await post('login.php', {'correo': correo, 'contrasena':
contrasena});
    return response; // Handle success/failure based on the backend response
}

// Book Endpoints
Future<List<dynamic>> getBooks() async {
    final response = await get('get_books.php');
    if (response['success'] && response['data'] != null) {
        return response['data'];
    }
}

```

```

    }
    throw Exception('Failed to load books: ${response['message']}');
}

Future<Map<String, dynamic>> addBook(Map<String, dynamic> bookData) async {
    return await post('add_book.php', bookData);
}

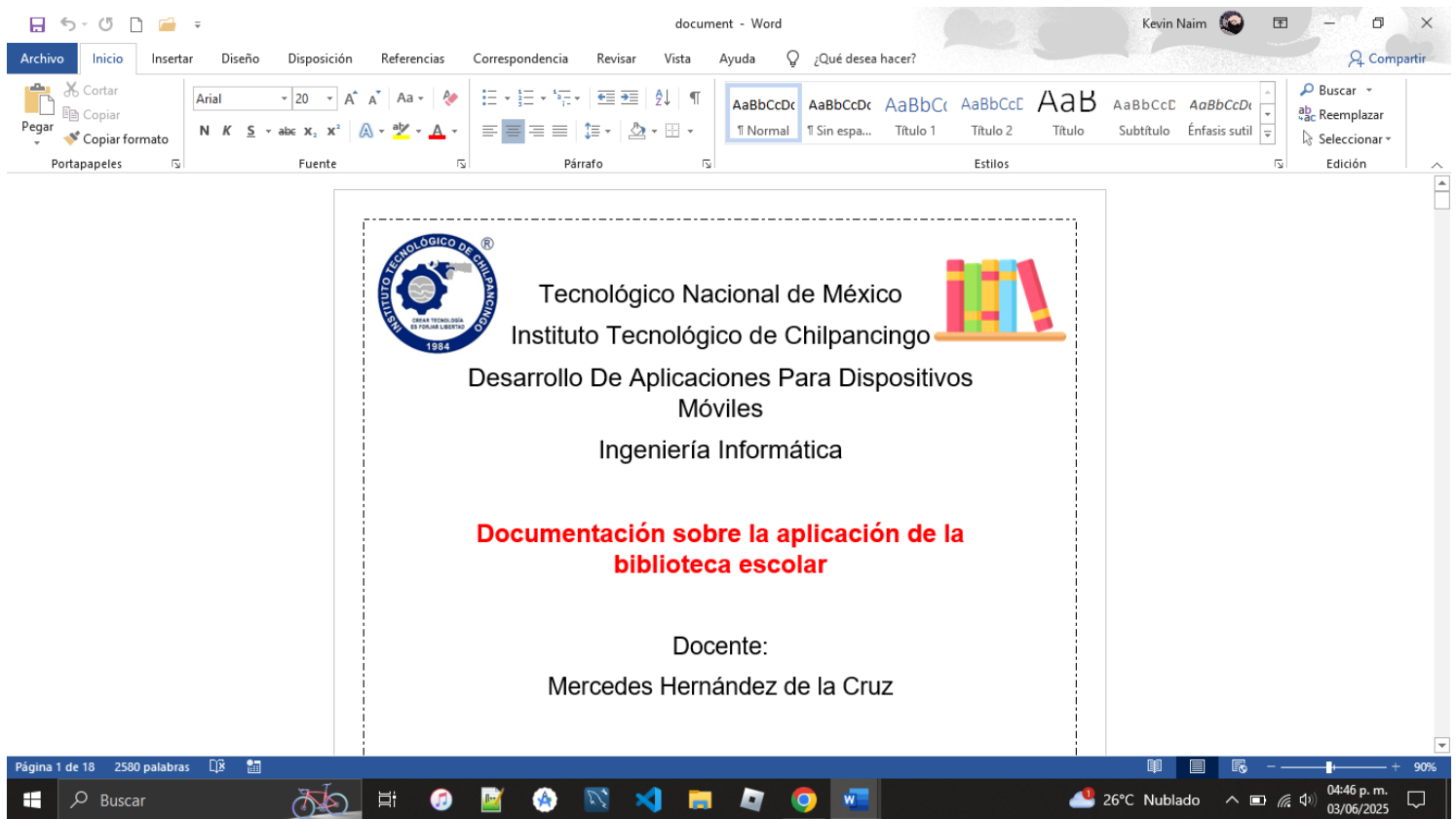
// Loan Endpoints
Future<List<dynamic>> getLoans() async {
    final response = await get('get_loans.php');
    if (response['success'] && response['data'] != null) {
        return response['data'];
    }
    throw Exception('Failed to load loans: ${response['message']}');
}

Future<Map<String, dynamic>> addLoan(Map<String, dynamic> loanData) async {
    return await post('add_loan.php', loanData);
}

// You would continue to add methods for all your tables and operations:
// getCategories, addCategory, getAuthors, addAuthor, getCareers, addCareer,
// getReturns, addReturn, updateBook, deleteBook, etc.
}

```

## Creación de la documentación de la aplicación:



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