



Piscine Mobile - 4

Auth and Database

Summary: This document outlines the subject for Module 04 of the Mobile Piscine.

Version: 1.2

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Chapter I

Instructions

- If you have problems installing the tools needed for your project on the 42 computers, you can use a virtual machine. In this case, you will have to :
 - install the virtual machine software on your computer.
 - install the operating system of your choice.
 - install the tools needed for your project.
 - Make sure you have the space on your session to install all of this.
 - You must have everything installed before the evaluation.
- Only this page will serve as reference. Do not trust rumors.
- Read attentively the whole document before beginning.
- Your exercises will be corrected by your piscine colleagues.
- The document can be relied upon, do not blindly trust the demos or pictures example which can contain not required additions.
- Got a question? Ask your peer on the right. Otherwise, try your peer on the left.
- By Odin, by Thor ! Use your brain !!!



Intra indicates the date and the hour of closing for your repositories. This date and hour also corresponds to the beginning of the peer-evaluation period for the corresponding piscine day. This peer-evaluation period lasts exactly 24h. After 24h passed, your missing peer grades will be completed with a 0.

Chapter II

Specific Instructions

To begin this module, you will create a new project app named “diary_app” in a new repository called “mobileModule04”.

This project will continue into the next module.

Your new application will be a diary app.

It will allow you to create, read, and delete diary entries.


The diary will be protected by an authentication system.

All entries will be stored in a database.

In this module, your task is to set up the foundation of your application with an authentication system and database.

Chapter III

Exercise 00: Login Page

	Exercise :
Login Page	
Turn-in directory : <code>mobileModule04</code>	
Files to turn in : <i>diary_app</i> and all necessary files	
Forbidden functions : None	

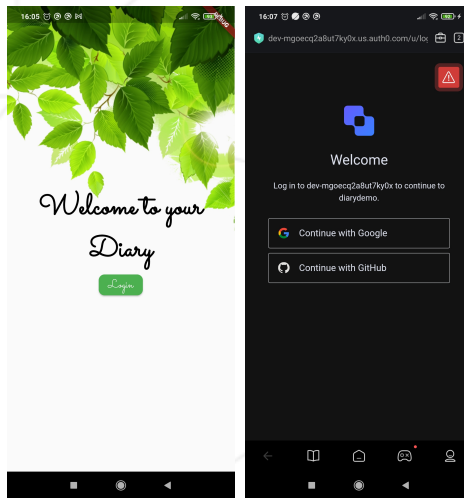
Start by creating the login page.

This page must include:

- A login button that either redirects to an authentication page or directly to the diary page if the user is already logged in.
- The option for the user to log in using a Google or GitHub account.


You must choose an authentication system where users can be stored and managed.
You may use an authentication system like Firebase, AWS, etc.

For your diary app, the login page should look something like this:



Chapter IV

Exercise 01: Profile Page

	Exercise :
Profile Page	
Turn-in directory : <code>mobileModule04</code>	
Files to turn in : <i>diary_app</i> and all necessary files	
Forbidden functions : None	

The next step is to create the profile page.

This page should only be accessible if the user is logged in.

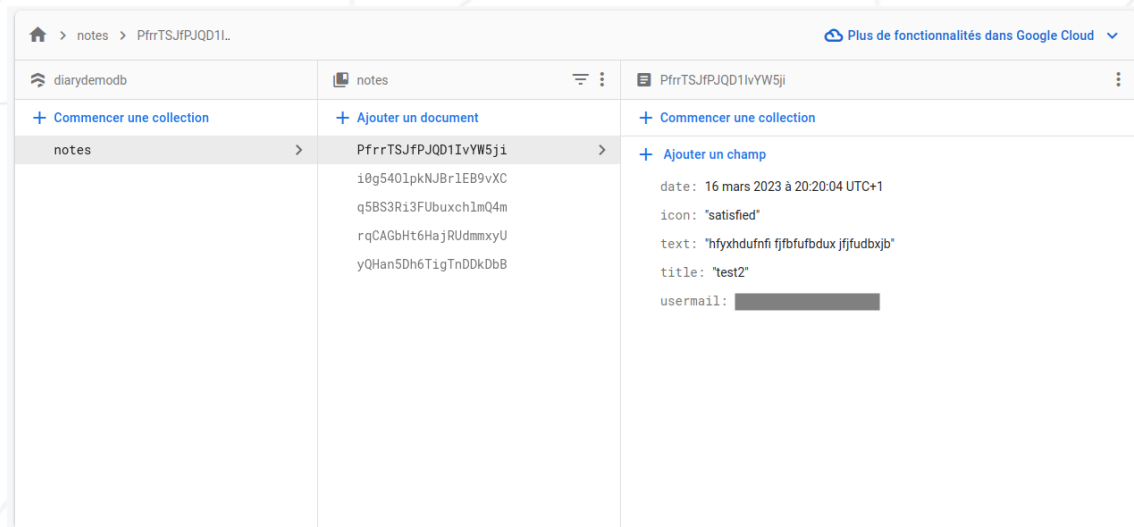
The authentication system should redirect the user to this page after logging in, or directly if they are already logged in.

Before creating the page, you will need to set up a database to store all diary entries.

In the database, you need to store:

- The user's email address.
- The date of each entry.
- The title of each entry.
- The user's feeling of the day.
- The content of the entry.

The database structure should resemble this:



You must be able to create, read, and delete entries, so you need to implement the logic for these operations.

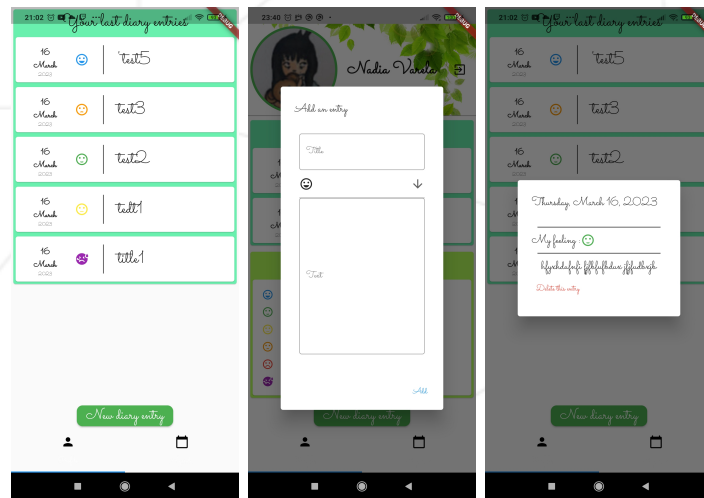
For now, create a profile page that includes:

- A list of all diary entries.
- A button to create a new entry.
- When a user taps on an entry, they should be able to read it.
- A button to delete an entry.

When a new entry is created, the list must be updated.

When an entry is deleted, the list must also be updated.

The profile page should look something like this:



For the evaluation, you must create a Google account for your evaluator to test your app. Ensure that this account contains some diary entries.