



In this phase, you will extend phase 1 solution to manage the app data and files using Supabase Database and Storage. Your project phase 2 deliverables include:

- Design the database schema and write SQL scripts to create all required tables in Supabase. Document the DB schema using an ERD.
- Enable Row-Level Security (RLS) to protect user data.
- Use Supabase auto-generated primary keys for all entities (e.g., `storyId`).

3. Repository Implementation:

4. **User Authentication:** Implement sign-in using Supabase Authentication with Email & password and an authentication provider (e.g., GitHub or Google).

- Enhance the Section Editor to allow selecting or capturing an image and choosing an audio file for the section. ~~In addition to calling an API to convert section text to Audio.~~
- Upload selected multimedia files to Supabase Storage.
- Delete related multimedia files when a section is removed.
- Update the Story Viewer to fetch and display/play section multimedia from Supabase Storage.

6. **[5pts optional bonus if fully working] AI Quiz Questions Suggestions:** Enhance the add/edit quiz questions by integrating an LLM API (e.g., Gemini API) to auto-generate and display suggested quiz questions for a given story.

- Supabase database schema diagram.
- Write a testing document including screenshots of conducted tests illustrating a working implementation.
- Every team member should submit a description of their project contribution. Every team member should participate in the solution demo and answer questions during the demo.

- Continue posting your questions to the Questions channel on Teams.

- Do not forget to submit your design and testing document (in Word format) and fill the *Functionality* column of the grading sheet provided in the phase 2 Word template.
- Push your implementation and documentation to your group GitHub repository as you make progress.
- You need to test as you go!
- Seek further clarification about the requirements/deliverables online and during office hours.

2. Grading rubric

Criteria	%	Functionality*	Quality of the implementation
1) Cloud Supabase DB Design and Implementation (including Repositories)	45		
2) Database Initialization	5		
3) Signin using Supabase Authentication including Email & password and an authentication provider (e.g., GitHub or Google)	15		
4) Story Multimedia Support: attach section image & audio and upload them to Supabase Storage. Then use them when viewing a story section.	25		
5) Design and Testing Documentation - Supabase database schema diagram. - Testing documentation: with evidence of working implementation using snapshots illustrating the results of your solution testing (you must use the provided template).	10		
6) Discussion of the project contribution of each team member [-10pts if not done]			
[5pts optional bonus if fully working, no partial grading] AI Quiz Questions Suggestions: enhance add/edit quiz questions by suggesting questions returned by an LLM API	5		
Total	100		
Copying and/or plagiarism or not being able to explain or answer questions about the implementation	- 100		

* **Possible grading for functionality** - **Working** (get 70% of the assigned grade), **Not working** (lose 40% of assigned grade and **Not done** (get 0). The remaining grade is assigned to the quality of the implementation.

In case your implementation is not working then 40% of the grade will be lost and the remaining 60% will be determined based on of the code quality and how close your solution to the working implementation.

Solution quality also includes meaningful naming of identifiers (according to Flutter/Dart naming conventions), no redundant code, simple and efficient design, clean implementation without unnecessary files/code, use of comments where necessary, proper code formatting and indentation.

Marks will be reduced for code duplication, poor/inefficient coding practices, poor naming of identifiers, unclear/untidy submission, and **unnecessary complex/poor user interface design**.