

FINAL PROJECT DELIVERABLES — ACADÉMIE LIBRE

Sprint 3 Deliverables

1. Common Sprint Deliverables

During Sprint 3, our focus was to connect all the work from previous sprints and complete the core pages of our platform. We updated the frontend pages, improved the database design, and polished the PHP backend for handling login, registration, and sessions. We also refined our documentation and updated the slide deck for presentation.

2. Final Architecture Page

By the end of Sprint 3, the structure of our platform looked much clearer and more organized.

Frontend

- Built with **HTML, CSS, and JavaScript**
- Main pages: *signin.html, index, resources.html, quiz.html, homework.html, profile.html, progress.html, admin.html*
- Each page has its own CSS and some JavaScript for interactivity
- We used simple logic to lock/unlock content based on the student's progress

Backend

- Developed with **PHP + MySQL**
- Important files: *config.php, login.php, logout.php, register.php, session.php, test_connection.php*
- Database structured based on the ER diagram you provided
(File: /mnt/data/ER Diagram Academie Libre.pdf)

The platform currently works like this:

Frontend → PHP scripts → MySQL → Back to frontend

Database

Our MySQL database includes tables for users, subjects, resources, quizzes, homework, submissions, progress, etc. The ER Diagram helped us structure everything in a way that supports the weekly progression and learning rules.

AI Component

We tried to integrate a HuggingFace AI model for homework correction. However, we ran into API connection issues.

As a temporary solution, we created a **simulated AI feedback system** using a dictionary of comments.

3. Flow Diagram Page (Summary)

Student Flow:

Login → Dashboard → Resources → Lessons → Quizzes → Homework Upload → Feedback
→ Progress → Next Week

Admin Flow:

Admin Login → Upload Resources → Manage Subjects → Manage Students → View Stats

4. Remaining Functionality

These features are planned for the next version: “backend”

- Real AI integration for homework correction
- More secure session handling
- Improved admin analytics
- More detailed progress tracking
- UI redesign for better user experience

FINAL DELIVERABLES — INDIVIDUAL REPORTS

Below are the contributions of each member, rewritten in a natural and human way.

1. Foureiratou : Individual Contribution

A. Role & Main Contribution

I worked mainly on the front end and the homework functionality. I also contributed a lot to the research, planning, and defining how the platform should work, especially from the perspective of *candidats libres* in Niger. I helped the team shape the learning flow and made sure the content followed a logical sequence.

B. Features I Worked On

- Designed and developed the **Homework page**
- Implemented the **file upload system**, which allows students to submit PDF homework
- Built the **AI feedback simulation** using a dictionary (temporary solution)
- Helped connect the navigation across pages
- Assisted with styling and layout decisions

- Contributed heavily to the project documentation and problem definition

C. Most Important Design I Contributed

The biggest piece I worked on was the **homework submission and feedback flow**.

Because we couldn't connect to HuggingFace, I created a fallback system:

1. Student uploads a homework file
2. JavaScript checks the file
3. A dictionary produces a “fake AI comment”
4. The comment is displayed as if it came from a real AI model

This allowed us to continue the demo even without real AI.

D. Challenges

- API errors when trying to call the HuggingFace model
- Keeping the design consistent across multiple pages
- Balancing research and coding at the same time
- Navigating between PHP sessions and HTML pages

E. Lessons Learned

- Real AI requires backend integration—frontend alone isn’t enough
- Planning the workflow before coding makes everything easier
- Working in a team means communicating constantly
- Debugging PHP sessions takes patience
- File uploading is more complex than it looks

2. Chidima : Individual Contribution

A. Role & Main Contribution

Chidima was the main frontend and backend developer. She handled most of the visual structure of the website and turned our ideas into actual pages. She also helped with navigation and making sure everything looked and felt consistent.

B. Features Completed

- Built the **Dashboard, Progress, Admin**, and part of **Resources**
- Added progress bars and dynamic visual indicators

- Styled almost all pages (CSS)
- Handled database connections (config.php)
- Worked with the PHP pages to test login, sessions, and simple backend logic
- Added frontend logic to lock/unlock weeks
- Ensured smooth navigation between pages
- Structured resource pages with videos, notes, PDFs, and links

C. Most Important Design

The weekly locking/unlocking system:

Users cannot proceed to Week 2 unless they complete Week 1.

This was implemented using simple JS functions and CSS state changes.

D. Challenges

- Keeping styles consistent across pages
- Making the UI readable and responsive
- Testing progress logic across many pages

E. Lessons Learned

- CSS becomes easier when organized in modules
- User flow affects design decisions
- Planning UI before coding prevents confusion later

3. Alan : Individual Contribution

A. Role & Main Contribution

Alan was in charge of the database. He created the MySQL database, and structured all tables

B. Features Completed

- Implemented all main database tables based on the ER diagram
- Built login, registration, session handling
- Created test_connection.php to verify database setup
- Supported frontend needs by defining the database logic

C. Most Important Design

Alan designed the database relationships:

- user_subjects connects students to subjects
- quizzes → questions → quiz_results
- homework → homework_submissions
- resources linked to subjects and weeks

This structure allows weekly progression and tracking.

D. Challenges

- Choosing the right relationships between tables
- Avoiding conflicts with ENUM and JSON fields
- Matching frontend expectations with backend structures

E. Lessons Learned

- Proper database planning prevents future errors
- Testing small parts of PHP saves time
- Good documentation makes backend easier for others to understand

IV. Important Links

- ⌚ **GitHub Repository:** <https://github.com/Furairah3/Webtech-Academie-Libre-Projects.git>
- ⌚ **Live Server (if any):** http://169.239.251.102:341/~soureiratou.idi/Academie_Libre/Webtech-Academie-Libre-Projects/sinin.html
- ⌚ **CMS / WordPress:** <https://fzakariyaouidi.wixsite.com/academie-libre>