Requirement
Chào các em,
Cô gửi bài tập, các em làm xong, bỏ vào thư mục mang tên MaSV_HoTen rồi nén .zip gửi lại cho cô nhé.
: Students should authenticate before accessing the system.

- Username/Email
- Password

.

- Login button
- Forgot Password link

: Simple, clean, and secure login screen.

- : After login, students should land on a dashboard that displays available exercises to choose from.
- •
- : Display exercises grouped by programming language (C, Python, Java).
- •
- Exercise title
- Short description
- Difficulty level (Easy/Medium/Hard)
- Time limit (if any)
- Points or grades attached (optional)

: Allow students to filter exercises by programming language.: To search for exercises based on keywords.: Indicate whether an exercise has been completed, in progress, or not started.:

- Select an exercise
- View exercise details
- : Once an exercise is selected, students are taken to a coding environment to implement their solution.
- :

	•	: Display the exercise title and description at the top.
	•	:
	•	Syntax highlighting for C, Python, Java
	•	Line numbers and auto-complete
	•	Language switcher (to select the language)
	•	Pre-loaded template (based on the selected language)
	•	Instructions and constraints provided for the exercise
:		
	•	Display predefined test cases with expected input/output
	•	Allow students to create and run their own test cases (optional)
:		
	•	Run Code button to compile and run the code
	•	Clear Code button to reset the editor
	•	Submission button to submit the final solution for grading
:		
	•	Run the code (compile + execute)
	•	Submit the code
	•	: After submission, students should see the results of their submission.
	•	:
	•	:
	•	Status (Success/Failed/Compilation Error/Time Limit Exceeded)
	•	Output: Show actual output versus expected output for each test case.
:		
	•	List all test cases with:
	•	Input
	•	Expected output
	•	Actual output
	•	Status (Passed/Failed)
:		

- Show score based on test cases passed
- If there are multiple test cases, show how many passed

: Display performance metrics like time taken and memory used (if applicable).:

- Try again button to return to the code editor for improvements
- Return to dashboard button
- Show rankings based on student performance (optional, for competitive environments).
- : Allow students to leave feedback on exercises or ask for help.
- : Provide a hint button that can be used a limited number of times.
- : Allow students to save their progress and return later to complete the exercise.
- Code execution should happen in isolated environments (containers or sandboxes) for security reasons.
- Limit execution time to prevent infinite loops.
- Store previous attempts so students can review their submissions.
- : Each screen should have a simple design with minimal distractions.
- Ensure the system is mobile-friendly so students can work from any device.
- : Clearly communicate syntax and runtime errors to students.