Technical Assessment : Full-Stack Developer

Overview

This task is designed to assess your real-world full-stack skills, including backend logic, frontend implementation, security awareness, and communication.
It is not a trick task and should take 2–4 hours to complete.

Objective

Build a simple user authentication system with a protected dashboard.

We are evaluating:
- Code structure and clarity
- Backend & frontend integration
- Basic security practices
- Ability to explain technical decisions

Task Requirements

1)User Authentication

Implement the following features:
- User registration
- User login
- Secure password storage (hashing required)
- Basic input validation
- Error handling (invalid login, missing fields, etc.)

2)Protected Dashboard
- Create a dashboard page
- Only authenticated users should be able to access it
- Unauthenticated users should be redirected or blocked

3)Backend API
- Build a backend API to handle authentication
- Use a database to store users
- You may choose any backend language or framework

4)Frontend
- Simple UI is enough (no need for perfect design)
- Forms for login and registration
- Dashboard page displaying:

- Logged-in user's email/username
- A simple welcome message

Security Expectations
- Passwords must not be stored in plain text
- Do not commit secrets or credentials to the repository
- Basic protection against common issues (e.g. validation)

Documentation

Include a README.md file that explains:
- Tech stack used
- How to run the project locally
- Any assumptions or decisions you made
- What you would improve if given more time

Time & Scope
- Ready by Friday 0800HRS
- Keep the solution simple and clean

Submission
- You shall present this on Friday, 6th January 2026 during your interview
- Ensure the project runs without issues following your README

Evaluation Criteria

We will evaluate based on:
- Code readability and organization
- Correctness and completeness
- Security awareness
- Practical decision-making
- Clarity of documentation

We care more about clean thinking and ownership than fancy frameworks.

Questions

If anything is unclear, you are encouraged to ask questions before the interview.

Final note This task reflects the kind of work you would do at Simuyangu: practical, user-focused, and production-minded.

Good luck!