Full Stack Developer Intern – Technical Assignment

Issued by Ardentix

About This Assignment

This assignment is part of the internship selection process at Ardentix. It evaluates your practical understanding of full stack web development, including frontend, backend, database integration, and authentication.

Project Information

Project Title: Personal Task Management System

Objective

Build an end-to-end web application that allows users to securely register, log in, and manage their personal tasks.

Problem Statement

Develop a web-based task management system where users can authenticate and perform basic task operations while ensuring data privacy.

Core Functional Requirements

- User registration and login
- Authentication required to access the application
- Create new tasks
- View task list
- Edit existing tasks
- Delete tasks

Technical Expectations

Frontend
- Use any modern frontend framework or plain HTML, CSS, and JavaScript
- Ensure clean, readable, and responsive UI

Backend
- Use any backend technology such as Node.js, Django, Flask, or Spring Boot
- Handle authentication and business logic

Database
- Use any relational or NoSQL database
- Store user and task data securely

Authentication & Security
- Implement session-based or token-based authentication
- Restrict access to authenticated users only

Optional Enhancements
- Task filtering or sorting
- Input validation and error handling
- Improved UI styling
- Deployment of the application

Submission Guidelines
- Complete the assignment before the specified deadline
- Push the complete source code to a public GitHub repository
- Ensure the repository contains a clear README file
- Submit the GitHub link via the Google Form: https://forms.gle/9GiwMAjExh4NHbhh7