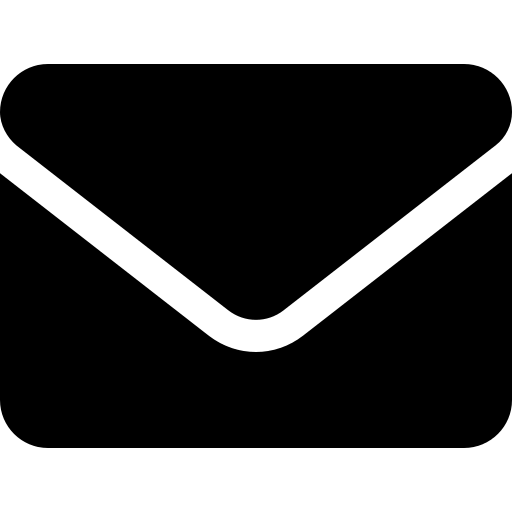
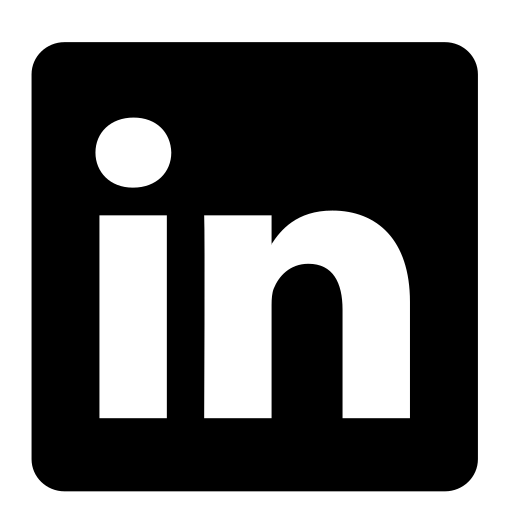
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**Project Overview**

Aurora is an interactive, level-based learning platform developed as part of the Cognifyz Internship. The project is a culmination of modern web technologies to create a user-centric, responsive, and visually engaging experience aimed at task-based learning and skill development. The system is modular and scalable, making it suitable for academic, onboarding, or training use cases.

**Objective**

To build a visually appealing, educational platform that provides a structured learning journey across multiple levels, each containing hands-on coding tasks. The goal was to enhance practical understanding of frontend-backend communication, UI/UX principles, API integration, and state management.

**Features**

* 🔄 **Level-based Navigation**: Interactive levels (Level 1, 2, 3) with structured tasks.
* 🔧 **Functional Components**: Tasks like Temperature Converter, Palindrome Checker, Currency Converter, Password Generator, etc.
* 🌈 **Aurora Background**: Eye-catching animated WebGL background.
* 📱 **Responsive Design**: Fully responsive across devices using Tailwind CSS.
* 🔐 **Reusable Components**: Navbar, Footer, and Aurora background are modular.
* 📤 **API Integration**: Backend communication for tasks using Spring Boot.
* ✨ **Minimal UI**: Clean, modern interface for easy learning.

**Tech Stack**

|  |  |
| --- | --- |
| **Technology** | **Description** |
| **React.js** | Frontend library for UI |
| **Spring Boot** | Backend logic and processing |
| **Tailwind CSS** | Modern CSS utility framework |
| **WebGL / Shader Effects** | Interactive cursor & background animations |
| **Lucide Icons / React Icons** | Iconography for enhanced UI |
| **Java** | For backend processing and conversions |
| **VS Code** | Development Environment |

**Levels & Tasks Overview**

**Level 1**

* Task 1: Temperature Converter
* Task 2: Palindrome Checker
* Task 3: Grade Average Calculator
* Task 4: Password Generator

**Level 2**

* Task 1: Tic Tac Toe Game
* Task 2: Password Strength Checker
* Task 3: AES-256 File Encryptor/Decryptor

**Level 3**

* Task 4: Currency Converter

**Screenshots:**

