Smart Career & Interview Intelligence System (SCIIS)

Java Project Documentation

1. Project Overview

The Smart Career & Interview Intelligence System (SCIIS) is a Java-based console application designed to help job seekers evaluate their interview readiness, identify skill gaps, and generate a personalized preparation roadmap for a target role.

2. Problem Statement

Many freshers prepare for interviews without knowing their actual readiness level or which skills require improvement. This leads to inefficient preparation and repeated rejections.

3. Solution

SCIIS analyzes user-provided skill levels, compares them against predefined role requirements, calculates an interview readiness percentage, detects skill gaps, and provides actionable study recommendations along with a short-term roadmap.

4. Key Features

- Skill profile management with proficiency levels (0–10)
- Interview readiness percentage calculation
- Skill gap identification for target job roles
- Rule-based learning recommendations
- Personalized 7-day preparation roadmap

5. System Modules

- Skill Profile Module
- Role Requirement Analyzer
- Interview Readiness Engine
- Skill Gap Detector
- Recommendation Engine
- Roadmap Generator

6. Algorithms & Logic

The system uses a weighted scoring algorithm to calculate interview readiness. Each skill contributes a predefined weight to the final readiness percentage. Skill gap detection is performed by comparing current skill levels with required thresholds. Recommendations are generated using rule-based logic.

7. Technologies Used

- Java (Core Java)
- Object-Oriented Programming (OOP)
- Java Collections Framework
- Console-based Input/Output

8. Future Enhancements

- Persistent storage using files or database
- Spring Boot REST API integration
- Web frontend using React
- AI-based adaptive recommendations

9. Resume Description

Smart Career & Interview Intelligence System (Java): Built a Java-based analytics system to evaluate interview readiness for software roles. Implemented weighted scoring algorithms, skill gap detection, and personalized preparation roadmaps using OOP principles and Java Collections.