

# Key Features and Assessment

## 1. Employer Features: Post Job Listings

- **Assessment:** Straightforward CRUD operations to manage job postings.
- Allows students to practice form validation, file uploads (e.g., for job descriptions or logos), and database management.

## 2. Job Seeker Features: Search and Apply for Jobs

- **Assessment:** Dynamic search with filtering and sorting (e.g., by job type, location, or salary) will reinforce skills in querying databases using JPA or Hibernate.
- Applying for jobs can involve file uploads (e.g., resumes), showcasing secure file handling practices.

## 3. Profile Management

- **Assessment:** Both employers and job seekers will need role-specific profile pages, giving students hands-on experience with role-based access control (e.g., Spring Security).
- Provides exposure to front-end dynamic form handling and integration with REST APIs.

## 4. Intuitive and Scalable Design

- **Assessment:** Responsive design ensures students learn front-end frameworks like Bootstrap, Tailwind, or Material-UI.
- Scalability encourages clean architecture (e.g., MVC) and potentially introduces cloud deployments for handling growing data loads.

# Innovative Suggestions

## 1. AI-Driven Job Recommendations

- **Feature:** Use an AI algorithm to suggest jobs to job seekers based on their profile, preferences, and past applications.
- **Implementation:** Implement a recommendation engine using machine learning libraries or APIs.

## 2. Video Resumes and Video Interview Scheduling

- **Feature:** Enable job seekers to upload video introductions and allow employers to schedule video interviews within the platform.
- **Implementation:** Integrate a video streaming service like WebRTC or Zoom API.

## 3. Skill Assessment Tests

- **Feature:** Employers can attach skill tests to job postings, and job seekers must complete them as part of their applications.
- **Implementation:** Build quizzes or coding tests with real-time evaluation and scoring features.

## 4. Employer Dashboard with Insights

- **Feature:** Provide analytics to employers about job post views, applications, and candidate quality.
- **Implementation:** Use data visualization libraries like Chart.js or D3.js to display stats.

## 5. Job Alerts for Job Seekers

- **Feature:** Notify job seekers about new job postings matching their preferences via email or in-app notifications.
- **Implementation:** Use a scheduled task with Spring Boot (e.g., Quartz Scheduler) for sending alerts.

## 6. Geo-Location Based Search

- **Feature:** Include a map view for job locations and allow location-based filtering.
- **Implementation:** Integrate Google Maps API or Leaflet.js.

## 7. Multi-Language Support

- **Feature:** Offer the platform in multiple languages to broaden accessibility.
- **Implementation:** Use i18n (internationalization) libraries for dynamic text translation.

## 8. Gamification for Job Seekers

- **Feature:** Add gamified elements like achievement badges for completing profiles or applying to a set number of jobs.
- **Implementation:** Create a points-based system and display progress on dashboards.

## 9. Endorsements and Reviews

- **Feature:** Let job seekers endorse peers and employers leave reviews for candidates they've hired.
- **Implementation:** Design a review and endorsement module with ratings and comments.