Assignment Specifications: Job Headhunter Agency Web Application

Objective: Each group of 4 students will develop a web-based application for a Job Headhunter Agency. The application must allow companies to post job descriptions and applicants to submit their resumes. The system will be managed by an admin who approves job postings. The project will be completed over a 3-month semester and must follow the Software Development Life Cycle (SDLC).

Functional Requirements:

1. **User Groups:**
    - Admin
    - Registered Users (Companies posting jobs)
    - Guests (Job seekers browsing available jobs)
2. **Authentication System:**
    - Company registration, login, and logout
    - Admin login and management panel
3. **Job Listings:**
    - Display a list of available job positions
    - Clicking on a job displays its full description
4. **Job Post Storage:**
    - Store job descriptions in a database with the following details:
        - Position ID, Title, Job Description, Required Degrees, Desired Skills
5. **Job Posting Approval:**
    - Employers submit job posts, which must be approved by the admin before going public
    - Admin can approve or edit job posts
6. **Application Submission:**

    - Candidates can submit applications via a button/link next to each job
    - Required fields: Full Name, Phone, Email, and Resume (PDF format)
    - Submitted applications are stored for review by the agency
7. **Privacy Protection:**
    - Job seekers can only see job descriptions, not employer contact information
    - All applications are sent to the agency, not directly to employers
8. **Job Position Details:**
    - Each job must have mandatory fields such as application deadline and location
9. **Document Upload:**
    - Employers can upload job descriptions as separate PDF files
    - A download link must be available for each job post
10. **Admin Features:**

- Ability to add new job positions manually
- Manage and approve pending job postings

Deliverables:

1. **Project Report (20%)**
    - Introduction and objectives
    - System architecture and design
    - Database schema and entity-relationship diagram
    - User interface wireframes
    - Technologies used
    - Development challenges and solutions
2. **Source Code (40%)**
    - Well-structured and commented code

- Responsive design using HTML5, CSS3
- Backend implementation with PHP & MySQL
- AJAX for dynamic content loading

3. **Demo & Presentation (20%)**
    - Live demonstration of the application
    - Explanation of key features and design choices
    - Q&A session
4. **Final Documentation (20%)**
    - User manual with instructions
    - Admin guide for managing the platform
    - Testing and bug-fixing report

Grading Criteria:

Criteria	Weight (%)	Description
Functionality	30%	All required features must be implemented and work correctly
User Interface	15%	Clean and user-friendly UI, responsive design
Database Design	15%	Well-structured database, efficient queries
Security	10%	Secure authentication, proper input validation
Code Quality	10%	Well-commented, clean, and efficient code
Testing & Debugging	10%	Comprehensive testing report, minimal bugs
Presentation	10%	Clear explanation, engaging demonstration

Total: **100%**

Submission Guidelines:

- Submit project report as a PDF
- Submit source code in a ZIP file with a README file
- Host the application on a demo server or provide setup instructions
- Present the project in a final evaluation session

Technology Stack:

- **Frontend:** HTML5, CSS3, JavaScript (AJAX)
- **Backend:** PHP
- **Database:** MySQL or MariaDB
- **Other:** Bootstrap for UI, Google Maps API for job location visualization

This assignment will ensure students gain practical experience in developing a full-stack web application while applying real-world software development principles.