# **Job Portal Application**

## **Abstract**

It is going to be a backend application. Which contains endpoints for User Management, JobSeeker Management, Employer Management, Job Listing Management, Job Application Management, Authorization, Authentication, Filtering System etc.  
  
  
  
  
**Tables**

### **User Table**

------

UserID (INT, Primary Key)

Password (BYTEA, NOT NULL)

HashKey (BYTEA, NOT NULL)

Email (VARCHAR(100), NOT NULL)

FirstName (VARCHAR(50))

LastName (VARCHAR(50))

ContactNumber (VARCHAR(15))

UserType (ENUM('jobseeker', 'employer', 'admin'), NOT NULL)

DateOfRegistration (DATETIME, DEFAULT CURRENT\_TIMESTAMP)

## **JobSeeker Table**

------

JobSeekerID (INT, Primary Key)

UserID (INT, Foreign Key)

## **Employer Table**

**------**

EmployerID (INT, Primary Key)

UserID (INT, Foreign Key)

CompanyName (VARCHAR(100))

CompanyDescription (TEXT)

CompanyLocation (VARCHAR(100))

## **JobListing Table**

**------**

JobID (INT, Primary Key)

JobTitle (VARCHAR(100))

JobDescription (TEXT)

JobType (ENUM('Full-time', 'Part-time', 'Contract'))

Location (VARCHAR(100))

Salary (DECIMAL(10, 2))

PostingDate (DATE)

ClosingDate (DATE)

EmployerID (INT, Foreign Key)

## **Application Table**

**------**

ApplicationID (INT, Primary Key)

JobID (INT, Foreign Key)

JobSeekerID (INT, Foreign Key)

ApplicationDate (DATE)

Status (ENUM('Applied', 'Reviewed', 'Interview', 'Hired', 'Rejected'))

## **Skill Table**

------

SkillID (INT, Primary Key)

SkillName (VARCHAR(100), NOT NULL)

## **JobSkill Table**

------

JobID (INT, Foreign Key)

SkillID (INT, Foreign Key)

## **JobSeekerSkill Table**

------

JobSeekerID (INT, Foreign Key)

SkillID (INT, Foreign Key)

## **Experience Table**

------

ExperienceID (INT, Primary Key)

JobSeekerID (INT, Foreign Key)

JobTitle (VARCHAR(100))

CompanyName (VARCHAR(100))

Location (VARCHAR(100))

StartDate (DATE)

EndDate (DATE)

Description (TEXT)

## **Education Table**

------

EducationID (INT, Primary Key)

JobSeekerID (INT, Foreign Key)

Degree (VARCHAR(100))

Institution (VARCHAR(100))

Location (VARCHAR(100))

StartDate (DATE)

EndDate (DATE)

Description (TEXT)

# **Relations Between Tables**

1. **User to JobSeeker**: One-to-One
   * **User.UserID** -> **JobSeeker.UserID**
2. **User to Employer**: One-to-One
   * **User.UserID** -> **Employer.UserID**
3. **Employer to JobListing**: One-to-Many
   * **Employer.EmployerID** -> **JobListing.EmployerID**
4. **JobSeeker to Application**: One-to-Many
   * **JobSeeker.JobSeekerID** -> **Application.JobSeekerID**
5. **JobListing to Application**: One-to-Many
   * **JobListing.JobID** -> **Application.JobID**
6. **JobListing to JobSkill**: Many-to-Many
   * **JobListing.JobID** -> **JobSkill.JobID**
7. **Skill to JobSkill**: Many-to-Many
   * **Skill.SkillID** -> **JobSkill.SkillID**
8. **JobSeeker to JobSeekerSkill**: Many-to-Many
   * **JobSeeker.JobSeekerID** -> **JobSeekerSkill.JobSeekerID**
9. **Skill to JobSeekerSkill**: Many-to-Many
   * **Skill.SkillID** -> **JobSeekerSkill.SkillID**
10. **JobSeeker to Experience**: One-to-Many
    * **JobSeeker.JobSeekerID** -> **Experience.JobSeekerID**
11. **JobSeeker to Education**: One-to-Many
    * **JobSeeker.JobSeekerID** -> **Education.EducationID**