Database Schemas

User Schema

email: String, required, unique

password: String, required

role: String, enum: ["student", "company", "institution", "admin"], required

isVerifiedByAdmin: Boolean, default: false

timestamps: createdAt, updatedAt

Admin Schema

userId: ObjectId, references User, required

role: String, default: "admin"

permissions: [String], optional

timestamps: createdAt, updatedAt

Company Schema

userId: ObjectId, references User, required

name: String, required

description: String, optional

location: String, optional

isVerifiedByAdmin: Boolean, default: false

timestamps: createdAt, updatedAt

Institution Schema

userId: ObjectId, references User, required

name: String, required

address: String, required

isVerifiedByAdmin: Boolean, default: false

timestamps: createdAt, updatedAt

Student Schema

userId: ObjectId, references User, required

firstName: String, required

lastName: String, required

email: String, required

academicRecords: [ObjectId], references AcademicRecord

timestamps: createdAt, updatedAt

AcademicRecord Schema

studentId: ObjectId, references Student, required

institutionId: ObjectId, references Institution, required

recordType: String, enum: ["specialty", "profession"], required

title: String, required

gpa: Number, required, min: 0, max: 4.0

fileUrl: String, required

filePublicId: String, required

hash: String, required

status: String, enum: ["pending", "verified", "rejected"], default: "pending"

rejectionReason: String, optional

timestamps: createdAt, updatedAt

Indexes: Compound index on { hash, status } (unique for status "verified")

Job Schema

companyId: ObjectId, references Company, required

title: String, required

description: String, required

requirements: [String], required

location: String, required

salary: String, required

certificateRequirements: [String], default: ["all"]

documentUrl: String, optional

status: String, enum: ["open", "closed"], default: "open"

timestamps: createdAt, updatedAt

Application Schema

studentId: ObjectId, references Student, required

jobId: ObjectId, references Job, required

coverLetter: String, required

academicRecords: [ObjectId], references AcademicRecord

status: String, enum: ["pending", "accepted", "rejected"], default: "pending"

timestamps: createdAt, updatedAt