Job Application Tracker - Backend Functions Overview

1. Authentication & User Management

- User registration with hashed passwords (bcrypt).

- User login with JWT token generation.

- Profile management (update name, email, password, skills, location, etc.).

- Role-based access control (admin, jobseeker).

2. Company Management (Admin only)

- Create, update, delete company profiles.

- Company schema includes: name, logo, description, location, industry.

3. Job Management (Admin only)

- Create, update, delete job postings under companies.

- Job schema: title, description, requirements, location, isRemote, companyId (ref).

- Publish/unpublish jobs.

4. Job Application Tracking

- Users can apply to jobs.

- Track status: applied, shortlisted, interviewed, offered, rejected.

- Store application date, resume link, notes.

5. Search Functionality

- Search jobs by title, company, location, remote.

- Filter by skills, posted date.

6. Subscriptions & Alerts

- Users subscribe to companies or keywords.

- Store subscriptions in a separate schema.

- Check new jobs against subscriptions to trigger alerts.

- Allow users to manage alert preferences.

7. Custom Job Alerts

- Users set custom keywords or skill-based alerts.

- Backend matches new job posts to these preferences.

- Send notification (email or in-app).

8. Optional Enhancements

- Interview Scheduler: add date, time, status per application.

- Social Share: allow sharing job URLs via plugins.

- Remote Filter: use Google Location API to filter remote jobs.

9. General Setup & Tools

- Mongoose for schema modeling.

- Express.js for RESTful APIs.

- Environment variables via dotenv (MONGO_URI, JWT_SECRET, etc.).

- Middlewares: auth, role checking, error handling.

- Folder structure: models, controllers, routes, utils, middleware.