TheKiranAcademy Job Sphere API Workflow

The workflows are designed to:

Cover all endpoints from the 12 controllers (CategoryController, CompanyController, EmployerProfileController,
JobApplicationController, JobSeekerProfileController, JobSkillController, LocationController, NotificationController,
SkillController, UserController, UserSkillController).

1. R e	egister as an Employer Goal: Create an employer account to access hiring features.
0	API: POST /api/users/register Controller: UserController Postman Request: Users > Register Employer
0	 Details: Body: {"email": "employer@example.com", "password": "password", "role": "EMPLOYER", "firstName": "John", "lastName": "Doe"} Note the userId (e.g., 2) from the response.
° 2. L o	Expected Outcome: Employer account created with role: EMPLOYER. Og In as Employer Goal: Authenticate to obtain user details.
0	
0	 Details: Body: {"email": "employer@example.com", "password": "password"} Confirms userId (e.g., 2) and role.
	Expected Outcome: User details returned, confirming authentication. et User Details Goal: Verify employer account details.
0	API: GET /api/users/{id} Controller: UserController Postman Request: Users > Get User
0	 URL: {{baseUrl}}/users/2 Response includes email, role, etc.
0	
0	API: POST /api/employer-profiles Controller: EmployerProfileController Postman Request: Employer Profiles > Create Profile
0	 Details: Body: {"userId": 2, "companyName": "Tech Corp", "contactInfo": "contact@techcorp.com"} Note the profileId (e.g., 1). Expected Outcome: Employer profile created.
6. G (et Employer Profile
0	Controller: EmployerProfileController Postman Request: Employer Profiles > Get Profile Details:
° 6. U I	 URL: {{baseUrl}}/employer-profiles/1 Expected Outcome: Profile details returned. odate Employer Profile
0	Goal: Modify employer profile details. API: PUT /api/employer-profiles/{id} Controller: EmployerProfileController
0	Postman Request: Employer Profiles > Update Profile Details: URL: {{baseUrl}}/employer-profiles/1
。 7. C r	 Body: {"userId": 2, "companyName": "Tech Corp Inc.", "contactInfo": "newcontact@techcorp.com"} Expected Outcome: Profile updated. reate a Company Goal: Set up a company for job listings.
0	API: POST /api/companies Controller: CompanyController Postman Request: Companies > Create Company
0	 Details: Body: {"name": "Tech Corp", "description": "Innovative tech solutions", "website": "https://techcorp.com", "location": "New York"}
	Note the companyId (e.g., 1). Expected Outcome: Company created. et Company Details Coally Verify company details
0 0	API: GET /api/companies/{id} Controller: CompanyController
0	Postman Request: Companies > Get Company Details: URL: {{baseUrl}}/companies/1 Expected Outcome: Company details returned.
	Goal: Modify company information.
0	Controller: Companies/{id} Controller: CompanyController Postman Request: Companies > Update Company Details:
	 URL: {{baseUrl}}/companies/1 Body: {"name": "Tech Corp Inc.", "description": "Leading tech solutions", "website": "https://techcorp.com", "location": "New York"}
0	
0 0	Postman Request: Categories > Get All Categories
0	 Details: URL: {{baseUrl}}/categories Note existing categoryld (e.g., 1) or proceed to create one. Expected Outcome: List of categories returned.
	Goal: Define a new job category if needed.
0	Controller: CategoryController Postman Request: Categories > Create Category Details:
0	 Body: {"name": "Software Development"} Note the categoryld (e.g., 1). Expected Outcome: Category created.
	et Category Details Goal: Verify category details. API: GET /api/categories/{id}
0	Controller: CategoryController Postman Request: Categories > Get Category Details:
	URL: {{baseUrl}}/categories/1 Expected Outcome: Category details returned. et All Locations Goal: Retrieve available job locations
0	API: GET /api/locations Controller: LocationController
0	Postman Request: Locations > Get All Locations Details: URL: {{baseUrl}}/locations
。 14. Cr 。	 Note existing locationId (e.g., 1) or proceed to create one. Expected Outcome: List of locations returned. reate a Location (Optional) Goal: Define a new job location if needed.
0	API: POST /api/locations Controller: LocationController Postman Request: Locations > Create Location
0	Details: Body: {"city": "New York", "state": "NY", "country": "USA"} Note the locationId (e.g., 1).
° 15. G (Expected Outcome: Location created. et Location Details Goal: Verify location details.
0	API: GET /api/locations/{id} Controller: LocationController Postman Request: Locations > Get Location
0	■ URL: {{baseUrl}}/locations/1 Expected Outcome: Location details returned.
	Goal: Retrieve available skills for job requirements. API: GET /api/skills Controller: SkillController
0	Postman Request: Skills > Get All Skills Details: URL: {{baseUrl}}/skills
。 17. Cr	 Note existing skill IDs or names. Expected Outcome: List of skills returned. reate a Skill (Optional, Manual)
0	Goal: Add a skill if not using Bulk Skill Upload. API: POST /api/skills Controller: SkillController
0	Postman Request: Skills > Create Skill Details: Body: {"name": "Java"}
° 18. G e	 Note the skillId (e.g., 1). Expected Outcome: Skill created. et Skill Details Goal: Verify skill details.
0	
0	Details: URL: {{baseUrl}}/skills/1 Expected Outcome: Skill details returned.
19. Cr 。 。	Controller: JobController
0	Postman Request: Jobs > Create Job Details: Body:
° 20. A ¢	 Note the jobId (e.g., 1). Expected Outcome: Job created, new skills added via Bulk Skill Upload. Skill to Job (Optional, Manual)
0	Goal: Associate an existing skill with a job if not using Bulk Skill Upload. API: POST /api/job-skills Controller: JobSkillController
0	Postman Request: Job Skills > Add Skill to Job Details: Body: {"jobId": 1, "skillId": 1}
0	Controller: JobController Postman Request: Jobs > Get Job
。 。 22. G (Details: URL: {{baseUrl}}/jobs/1?userId=2 Expected Outcome: Job details returned, view logged. et All Jobs
22. G (Goal: View all posted jobs.
0	Controller: JobController Postman Request: Jobs > Get All Jobs Details: Query: ?page=0&size=10
	 Query: ?page=0&size=10 Expected Outcome: Paginated list of jobs. earch Jobs Goal: Find jobs by criteria (optional for employers).
0	API: GET /api/jobs/search
0	 Details: Query: ?keyword=Software&categoryId=1&locationId=1&page=0&size=10 Expected Outcome: Paginated list of matching jobs.
0	
0	Controller: JobController Postman Request: Jobs > Get Job Analytics Details: URL: {{baseUrl}}{/iobs/1/analytics}
。 25. G (URL: {{baseUrl}}/jobs/1/analytics Response: {"jobId": 1, "views": 50, "applications": 10} Expected Outcome: Analytics data returned. et Applications for a Job
25. G (Goal: Review applications for a job.
0	<pre>Controller: JobApplicationController Postman Request: Job Applications > Get Applications by Job Details:</pre>
° 26. G ¢	 URL: {{baseUrl}}/applications?jobId=1 Note applicationId (e.g., 1). Expected Outcome: List of applications. et Application Details
26. G (Goal: View details of a specific application.
0	Postman Request: Job Applications > Get Application Details: URL: {{baseUrl}}/applications/1
۰ 27. Ս ۰	Expected Outcome: Application details, including comments. odate Application Status with Comment Goal: Update application status and add a comment.
0	API: PUT /api/applications/{id}/status Controller: JobApplicationController Postman Request: Job Applications > Update Application Status with Comment
°	■ URL: {{baseUrl}}/applications/1/status?status=ACCEPTED&comment=Strong%20candidate Expected Outcome: Status updated, comment saved, notification sent.
28. G (API: GET /api/users/all/employers
0	Controller: UserController Postman Request: Users > Get All Employers Details: URL: {{baseUrl}}/users/all/employers
° 29. G (Expected Outcome: List of employers returned. et All Users
0	
0	Details: URL: {{baseUrl}}/users/all Expected Outcome: List of all users returned.
	Goal: Modify employer account details. API: PUT /api/users/{id}
0	Controller: UserController Postman Request: Users > Update User Details:
	 URL: {{baseUrl}}/users/2 Body: {"email": "newemployer@example.com", "password": "newpassword", "role": "EMPLOYER", "firstName": "John", "lastName": "Doe"}
0	Expected Outcome: User details updated. elete Employer Profile (Optional) Goal: Remove employer profile if needed.
0	Controller: EmployerProfileController Postman Request: Employer Profiles > Delete Profile
。 。 82. D e	Details: URL: {{baseUrl}}/employer-profiles/1 Expected Outcome: Profile deleted. elete Company (Optional)
0	
0	Controller: CompanyController Postman Request: Companies > Delete Company Details: URL: {{basel r }}/companies/1
。 33. D @	 URL: {{baseUrl}}/companies/1 Expected Outcome: Company deleted. elete User (Optional) Goal: Delete employer account if needed.
0	API: DELETE /api/users/{id}
0	1 Ostiliali Nequest. Osers > Delete Oser
0	Details: URL: {{baseUrl}}/users/2 Expected Outcome: User account deleted.

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Job Seekers Workflow
The Job Seekers Workflow details the sequence of API calls for job seekers to interact with the Job Portal API, covering account setup,
profile management, job search, applications, and notifications. All endpoints are accessed at http://localhost:8091/api and can be
tested using the Postman collection "Job Portal API." The steps are ordered to ensure dependencies are met (e.g., registering before
applying). Each step includes the API, Postman request, and expected outcome.
Workflow Steps
1. Register as a Job Seeker

    Goal: Create a job seeker account to apply for jobs.

      API: POST /api/users/register
      Controller: UserController
       Postman Request: Users > Register Job Seeker
      Details:
       Body: {"email": "seeker@example.com", "password": "password", "role": "JOB_SEEKER", "firstName": "Jane",
          "lastName": "Smith"}
        Note the userId (e.g., 1) from the response.

    Expected Outcome: Job seeker account created with role: JOB_SEEKER.

2. Log In as Job Seeker
      Goal: Authenticate to obtain user details.
      API: POST /api/users/login
      Controller: UserController
       Postman Request: Users > Login Job Seeker
      Details:
         Body: {"email": "seeker@example.com", "password": "password"}
       Confirms userId (e.g., 1) and role.
   • Expected Outcome: User details returned, confirming authentication.
3. Get User Details

    Goal: Verify job seeker account details.

      API: GET /api/users/{id}
      Controller: UserController
      Postman Request: Users > Get User
       URL: {{baseUrl}}/users/1

    Response includes email, role, etc.

      Expected Outcome: Job seeker details retrieved.
4. Create Job Seeker Profile
      Goal: Set up a detailed job seeker profile.
       API: POST /api/job-seeker-profiles
       Controller: JobSeekerProfileController
       Postman Request: Job Seeker Profiles > Create Profile
       Details:
       Body: {"userId": 1, "resume": "resume.pdf", "skills": ["Java"], "experience": "2 years"}
       Note the profiled (e.g., 1).
      Expected Outcome: Job seeker profile created.
5. Get Job Seeker Profile
      Goal: Verify the created profile.
       API: GET /api/job-seeker-profiles/{id}
       Controller: JobSeekerProfileController
       Postman Request: Job Seeker Profiles > Get Profile
       Details:
       URL: {{baseUrl}}/job-seeker-profiles/1

    Expected Outcome: Profile details returned.

6. Update Job Seeker Profile
      Goal: Modify profile details.
       API: PUT /api/job-seeker-profiles/{id}
       Controller: JobSeekerProfileController
       Postman Request: Job Seeker Profiles > Update Profile
       Details:
       URL: {{baseUrl}}/job-seeker-profiles/1
       Body: {"userId": 1, "resume": "updated_resume.pdf", "skills": ["Java", "Python"], "experience": "3 years"}

    Expected Outcome: Profile updated.

7. Add Skill to User
      Goal: Associate skills with the job seeker for Recommended Jobs.
       API: POST /api/user-skills
      Controller: UserSkillController
      Postman Request: User Skills > Add Skill to User
       Details:
         Body: {"userId": 1, "skillId": 1}
          Repeat for additional skills (e.g., skillId: 2 for Python).

    Expected Outcome: Skill linked to user.

8. Get All Skills
      Goal: View available skills for profile or job search.
       API: GET /api/skills
       Controller: SkillController
       Postman Request: Skills > Get All Skills
       Details:
       URL: {{baseUrl}}/skills

    Expected Outcome: List of skills returned.

9. Get Skill Details

    Goal: Verify specific skill details.

       API: GET /api/skills/{id}
       Controller: SkillController
       Postman Request: Skills > Get Skill
       Details:
       URL: {{baseUrl}}/skills/1
   • Expected Outcome: Skill details returned.
10. Get All Categories
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Goal: View job categories for search.

Controller: CategoryController

URL: {{baseUrl}}/categories

Goal: Verify category details.

API: GET /api/categories/{id}

Controller: CategoryController

URL: {{baseUrl}}/categories/1

Goal: View job locations for search.

Controller: LocationController

URL: {{baseUrl}}/locations

Goal: Verify location details.

API: GET /api/locations/{id}

Controller: LocationController

URL: {{baseUrl}}/locations/1

Goal: Browse all available jobs.

Controller: JobController

• Query: ?page=0&size=10

Goal: Find jobs by criteria.

API: GET /api/jobs/search

Controller: JobController

API: GET /api/jobs

API: GET /api/locations

Postman Request: Categories > Get All Categories

Expected Outcome: List of categories returned.

Postman Request: Categories > Get Category

• **Expected Outcome**: Category details returned.

Postman Request: Locations > Get All Locations

Expected Outcome: List of locations returned.

Postman Request: Locations > Get Location

Expected Outcome: Location details returned.

Postman Request: Jobs > Get All Jobs

Expected Outcome: Paginated list of jobs.

Postman Request: Jobs > Search Jobs

Note jobId (e.g., 1) for application.

Goal: Discover jobs matching user skills.

Query: ?userId=1&page=0&size=10

API: GET /api/jobs/recommended

Controller: JobController

Goal: Review a specific job.

API: GET /api/jobs/{id}

Controller: JobController

Goal: Submit a job application.

API: POST /api/applications

Controller: JobApplicationController

Note the applicationId (e.g., 1).

Goal: View a specific application.

API: GET /api/applications/{id}

Controller: JobApplicationController

URL: {{baseUrl}}/applications/1

Goal: Track all submitted applications.

Controller: JobApplicationController

API: GET /api/applications?userId={userId}

URL: {{baseUrl}}/applications?userId=1

Expected Outcome: List of user's applications.

Goal: Check application status updates and comments.

Postman Request: Notifications > Get User Notifications

Goal: View all job seeker accounts (optional, administrative).

Response includes notifications, e.g., "Your application for Software Engineer has been ACCEPTED. Comment: Strong

Body: {"email": "newseeker@example.com", "password": "newpassword", "role": "JOB_SEEKER", "firstName": "Jane",

Sequence: Steps are ordered to satisfy dependencies (e.g., profile creation before adding skills, job search before applying).

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Optional Steps: Steps 22–26 are optional, typically for administrative or cleanup purposes.

Notifications: Step 21 reflects Application Status Notifications and Application Review Comments.

Skills: Step 7 enhances **Recommended Jobs** by linking skills to the user.

Analytics: Step 17 logs views for **Employer Dashboard Analytics**.

Postman Request: Jobs > Get Job

URL: {{baseUrl}}/jobs/1?userId=1

Logs a view for Employer Dashboard Analytics.

Expected Outcome: Job details returned, view recorded.

Postman Request: Job Applications > Create Application

Expected Outcome: Application submitted with status PENDING.

Postman Request: Job Applications > Get Application

Body: {"jobId": 1, "userId": 1, "coverLetter": "I am excited to apply..."}

Expected Outcome: Application details, including status and comments.

Postman Request: Job Applications > Get Applications by User

Expected Outcome: Paginated list of matching jobs.

Postman Request: Jobs > Get Recommended Jobs

Expected Outcome: Paginated list of recommended jobs.

Query: ?keyword=Software&categoryId=1&locationId=1&page=0&size=10

API: GET /api/categories

Details:

11. Get Category Details

Details:

12. Get All Locations

Details:

13. Get Location Details

Details:

Details:

15. Search Jobs

Details:

16. Get Recommended Jobs

Details:

17. Get Job Details

Details:

18. Apply for a Job

Details:

19. Get Application Details

Details:

Details:

21. Get User Notifications

Details:

22. Get All Job Seekers

Details:

23. Get All Users

Details:

24. Update User

Details:

Details:

26. **Delete User (Optional)**

Details:

Notes

API: GET /api/notifications

Query: ?userId=1

candidate."

Controller: NotificationController

Expected Outcome: Notifications retrieved.

API: GET /api/users/all/jobseekers

Postman Request: Users > Get All Job Seekers

URL: {{baseUrl}}/users/all/jobseekers

Expected Outcome: List of job seekers returned.

Goal: View all users (optional, administrative).

Postman Request: Users > Get All Users

• **Expected Outcome**: List of all users returned.

Postman Request: Users > Update User

Expected Outcome: User details updated.

Goal: Remove job seeker profile if needed.

Controller: JobSeekerProfileController

API: DELETE /api/job-seeker-profiles/{id}

URL: {{baseUrl}}/job-seeker-profiles/1

Goal: Delete job seeker account if needed.

Postman Request: Users > Delete User

Expected Outcome: User account deleted.

• **Expected Outcome**: Profile deleted.

API: DELETE /api/users/{id}

Controller: UserController

URL: {{baseUrl}}/users/1

Postman Request: Job Seeker Profiles > Delete Profile

Goal: Modify job seeker account details.

Controller: UserController

API: GET /api/users/all

Controller: UserController

URL: {{baseUrl}}/users/all

API: PUT /api/users/{id}

Controller: UserController

URL: {{baseUrl}}/users/1

"lastName": "Smith"}

25. Delete Job Seeker Profile (Optional)

20. Get Applications by User

14. Get All Jobs