**API Specification Doc**

| **Version** | **Date** | **Author** | **Description** |
| --- | --- | --- | --- |
| 1.0 | 30-03-2025 | Vaishnav T | SeekerSpot Job Portal |
|  |  |  |  |

## **1. Admin**

## **1.1. Admin Login:**

Allows an admin to log in using their username and password.

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/auth/admin/login/ |

## **Request**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| username | Admin have a username | String |
| password | Admin have a password | Password |

## 

## 

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | “Successfully Login to Admin panel ” |  |
| 401 | { "error": "Username or password invalid" } |  |

## 

## **1.2. Admin Panel:**

## This is the page for the Admin to view and the data of the website.

## 

| **Method** | **URL** |
| --- | --- |
| **GET** | api/admin/home/ |

## 

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | ’Success’. Enter to admin\_Panel |  |
| 401 | { "error": "Unauthorized access" } |  |
| 500 | { "error": "Internal server error" } |  |

**1.3 View Users**

Admin can view all details about users.

| **Method** | **URL** |
| --- | --- |
| **GET** | /api/admin/users/ |

## 

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| username | User name of the user | string |
| firstname | First name of the user | string |
| lastname | Last name of the user | string |
| email | Email of the user | string |
| user\_type | Type(Job Seekers/ Job Provider) | string |
| created\_at | Account creation date | datetime |

## **1.4 Block User**

Allows the admin to block a user. A blocked user will not be able to access their account.

| **Method** | **URL** |
| --- | --- |
| **PATCH** | /api/admin/users/<user\_id>/block/ |

## 

## **Response**

| **Parameter Name** | **Description** |
| --- | --- |
| 206 | PARTIAL CONTENT |

## 

## **1.5 Unblock User**

Allows the admin to unblock a previously blocked user, restoring their access to their account.

| **Method** | **URL** |
| --- | --- |
| **PUT** | /api/admin/users/<user\_id>/unblock/ |

## 

## **Response**

| **Parameter Name** | **Description** |
| --- | --- |
| 206 | PARTIAL CONTENT |

## 

## **1.6 Unblock User**

Allows the admin to unblock a previously blocked user, restoring their access to their account.

| **Method** | **URL** |
| --- | --- |
| **PUT** | /api/admin/jobproviders/ |

## 

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | OK |  |
| user\_id | Job Provider Id | String |
| company\_name | Company name | String |
| industry | Industry type | String |
| company\_website | Company website | String |
| description | Company description | String |
| location | Head office location of the company | String |
| is\_verified | Verified or not | Boolean |
| 401 | {“error”:”unauthorized access”} |  |
| 500 | Internal Server Error |  |

## **1.7 Admin Logout**

Admin can logout from the admin panel..

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/auth/admin/logout/ |

## 

## **Response**

| **Parameter Name** | **Description** |
| --- | --- |
| 200 | ’Successful logout.’ |

## 

## **2. AUTHENTICATION**

## **2.1 User Login:**

Here users can login

| **Method** | **URL** |
| --- | --- |
| **GET** | http://127.0.0.1:8000/ |

**Request**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| username | Username of the user | string |
| password | Password of the user | password |

## 

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | OK |  |
| access\_token | JWT access token | String |
| refresh\_token | JWT refresh token | String |

**2.2 User Sign Up**

Users can register by providing their details to create an account.

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/auth/register/ |

**Request**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| first\_name | first\_name of the user | String |
| last\_name | last\_name of the user | String |
| Username | User name of the user | string |
| Email | Email address of the user | string |
| Password | User can add password | password |
| user\_type | Type of the user | string |
| phone\_number | Phone number | file |
| profile\_picture | profile\_image | file |

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | ’Success’. |  |
| access\_token | Jwt access token | String |
| refresh\_token | Jwt refresh token | String |

**2.3 Email Verification OTP**

After signing up, users receive an OTP to verify their email address.

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/auth/users/verify-email/ |

**Request**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| otp | One-Time Password (OTP) | String |

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | ’Email verified successfully.’. |  |
| 400 | { "error": "Invalid OTP or email." }{‘error’:Invalid OTP or email} |  |

**2.4 Request Password Reset**

Initiates the password reset process by sending a reset link or token to the user's email.

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/auth/users/request-password-reset/ |

**Request**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| email | User have a email | string |

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | ’Success’. |  |
| 400 | Bad Request (e.g., email not found) |  |

**2.5 Verify Reset Token**

Verifies the password reset token sent to the user's email

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/auth/users/verify-reset-token//api/auth/verify-reset-token/ |

**Request**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| token | Password reset token received | string |

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | ’Success’. |  |
| 400 | Bad Request (e.g., email not found) |  |
| 404 | Not Found (e.g., token not found) |  |

**2.6 Reset Password**

Resets the user's password using the reset token.

| **Method** | **URL** |
| --- | --- |
| **PATCH** | /api/auth/users/reset-password//api/auth/reset-password/ |

**Request**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| token | Password reset token received | string |
| new\_password | New password to set | password |

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | ’Success’. |  |
| 400 | Bad Request (e.g., invalid token) |  |
| 404 | Not Found (e.g., token not found) |  |

## **3. Job Seekers Feature**

## **3.1. View Job Seeker Profile:**

Retrieves a job seekers profile.

| **Method** | **URL** |
| --- | --- |
| **GET** | /api/users/<user\_id>/ |

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | OK with a user and list of posts |  |
| 500 | Internal Server Error |  |
| username | Username of the user | string |
| firstname | Firstname of the user | string |
| lastname | Lastname of the user | string |
| email | Email | string |
| summary | Profile summary | string |
| experience | Years of experience | integer |
| current\_salary | Current Salary | integer |
| expected\_salary | Expected Salary | integer |
| is\_available | Availability Status | boolean |
| resume | Resume file | file |

**3.2. Edit Job Seekers Profile**

Edit job seekers profile.

| **Method** | **URL** |
| --- | --- |
| **PUT** | /api/users/<user\_id>/update/ |

## **Request**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |
| firstname | Firstname of the user | string |
| lastname | Lastname of the user | string |
| summary | Profile Summary | string |
| experience | Years of experience | integer |
| current\_salary | Current salary | integer |
| expected\_salary | Expected salary | integer |
| is\_available | Availability status | boolean |
| resume | Resume file | file |

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | OK with a list of posts |  |
| 400 | {‘error’:’invalid data’} |  |

## 

**3.3 Add Certification**

Adds a certification to a job seeker's profile.

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/users/<user\_id>/certifications/ |

**Request**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |
| name | Certification name | string |
| issuing\_org | Issuing organization | string |
| issue\_date | Issue date | date |

## 

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 201 | CREATED |  |
| 400 | {“error”:”Invalid data”} |  |

## 

**3.4 Edit Certification**

Adds a certification to a job seeker's profile.

| **Method** | **URL** |
| --- | --- |
| **PUT** | /api/jobseekers/<user\_id>/certifications/<certification\_id>/update/ |

**Request**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |
| name | Certification name | string |
| issuing\_org | Issuing organization | string |
| issue\_date | Issue date | date |

## 

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | OK |  |
| 400 | {“error”:”Invalid data”} |  |

## **3.5 Add Education:**

Add education to job seeker’s profile

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/jobseekers/<user\_id>/education/ |

**Request**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |
| institution | Institution name | string |
| degree | Degree earned | string |
| field\_of\_study | Field of study | string |
| start\_date | Start date | date |
| end\_date | End date | date |
| description | Description | string |

## 

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 201 | CREATED |  |
| 400 | {“error”:”invalid data”} |  |

## **3.6 Edit Education:**

Add education to job seeker’s profile

| **Method** | **URL** |
| --- | --- |
| **PUT** | /api/jobseekers/<user\_id>/education/<education\_id>/update/ |

**Request**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |
| institution | Institution name | string |
| degree | Degree earned | string |
| field\_of\_study | Field of study | string |
| start\_date | Start date | date |
| end\_date | End date | date |
| description | Description | string |

## 

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | OK |  |
| 400 | {“error”:”invalid data”} |  |

## 

## **Job Provider Features:**

## **4.1. Job Provider Profile:**

## **view job provider profile**

| **Method** | **URL** |
| --- | --- |
| **GET** | /api/jobproviders/<user\_id>/ |

## **Request:**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | OK |  |
| id | Job provider id | integer |
| company\_name | company\_name | string |
| industry | industry\_type | string |
| company\_website | Company website | string |
| description | Company description | string |
| location | Company location | string |
| is\_verified | Verification status | boolean |
| 500 | Internal Server Error |  |

## **4.2. Edit job provider profile:**

## **update job provider profile.**

| **Method** | **URL** |
| --- | --- |
| **PUT** | /api/jobproviders/<user\_id>/update/ |

## **Request:**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |
| company\_name | Company name | string |
| industry | Industry type | string |
| company\_website | Company website | string |
| description | Company description | string |
| location | Company location | string |
| company\_logo | Company logo | file |

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | OK |  |
| 400 | Bad Request (Invalid data) |  |
| 500 | Internal Server Error |  |

## **4.3.Create job post:**

## **allows a job provider to create a new job posting.**

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/jobposts/ |

## **Request:**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |
| title | Job title | String |
| description | Job description | String |
| requirements | Job requirements | String |
| responsibilities | Job responsibilities | String |
| location | Job location | String |
| job\_type | Job type | String |
| Experience\_level | Required experience | Integer |
| min\_salary | Minimum salary | Integer |
| max\_salary | Maximum salary | Integer |
| application\_deadline | Application deadline | Datetime |

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 201 | CREATED |  |
| 400 | {“error”:”invalid data”} |  |

## **4.4 Edit job post:**

## **allows a job provider to create a new job posting.**

| **Method** | **URL** |
| --- | --- |
| **PUT** | /api/jobposts/<job\_post\_id>/update/ |

## **Request:**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |
| title | Job title | String |
| description | Job description | String |
| requirements | Job requirements | String |
| responsibilities | Job responsibilities | String |
| location | Job location | String |
| job\_type | Job type | String |
| Experience\_level | Required experience | Integer |
| min\_salary | Minimum salary | Integer |
| max\_salary | Maximum salary | Integer |
| application\_deadline | Application deadline | Datetime |

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | OK |  |
| 400 | {“error”:”invalid data”} |  |

## 

## **4.5 View Job Post**

## **Retrieves details of a specific job posts**

| **Method** | **URL** |
| --- | --- |
| **GET** | /api/jobposts/<job\_post\_id>/ |

## **Request:**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | OK |  |
| id | Id | integer |
| title | Title of the post | string |
| description | Description of the post | string |
| requirements | Requirements of the post | string |
| responsibilities | Responsibilities of the position | string |
| location | Job location | string |
| job\_type | Type of the job | string |
| experience\_level | Required experience | string |
| min\_salary | Minimum salary | integer |
| max\_salary | Maximum salary | integer |
| application\_dealine | Deadline of the post | datetime |
| status | Status of the post | string |
| 500 | INTERNAL SERVER ERROR |  |

## **4.6 Schedule Interview:**

## **Allows a job provider to schedule an interview for a job application.**

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/jobposts/<job\_post\_id>/interviews/ |

## **Request:**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |
| application\_id | Job application id | integer |
| scheduled\_time | Interview time | datetime |
| duration | Duration in minutes | integer |
| notes | Additional notes | string |

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 2001 | CREATED |  |
| 400 | Bad Request (Invalid data) |  |
| 500 | Internal Server Error |  |

## **5. Job Seeker Job Interactions**

## **5.1 Apply for Job**

## **Allows a job seeker to apply for a job**

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/jobposts/<job\_post\_id>/apply/ |

## **Request:**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 201 | CREATED |  |
| 400 | Bad Request (Invalid data) |  |
| 500 | Internal Server Error |  |

## **5.2 Save Job**

## **Allows the job seeker to save the post for later.**

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/jobposts/<job\_post\_id>/save/ |

## **Request:**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 201 | CREATED |  |
| 400 | Bad Request (Invalid data) |  |
| 500 | Internal Server Error |  |

## **5.3 Remove Saved Job**

## Remove saved job

| **Method** | **URL** |
| --- | --- |
| **DELETE** | /api/saved/<job\_post\_id>/delete/ |

## **Request:**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | OK |  |
| 400 | Bad Request (Invalid data) |  |
| 500 | Internal Server Error |  |

## **6. Community Features**

## **6.1 Create Community**

## Allows admin to create new community.

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/communities/ |

## **Request:**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |
| name | Community name | string |
| description | Community description | string |
| category | Community category | string |
| cover\_image | Cover image | file |

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 201 | CREATED |  |
| 400 | Bad Request (Invalid data) |  |
| 500 | Internal Server Error |  |

## 

## **6.2 Join Community**

## **Allows job seekers to join community**

| **Method** | **URL** |
| --- | --- |

## **Request:**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |

## 

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | OK |  |
| 400 | Bad Request (Invalid data) |  |
| 500 | Internal Server Error |  |

## **6.3 Send community message**

## Allows a community member to send message in a community.

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/communities/<community\_id>/messages/ |

## **Request:**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |
| content | Message content | string |
| attachment | Optional attachment | file |

## 

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 201 | CREATED |  |
| 400 | Bad Request |  |

## **6.4 View Community Message**

## Allows a community member to view the messages.

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/communities/<community\_id>/messages/ |

## **Request:**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| Authorization | Bearer <access\_token> |  |

## 

## **Response**

| **Parameter Name** | **Description** | **Type & Length** |
| --- | --- | --- |
| 200 | OK |  |
| id | Message id | integer |
| sender\_id | Sender id | integer |
| content | Message content | string |
| attachment | Attachment (if any) | file |
| 500 | Internal Server Error |  |
| 400 | Bad Request |  |

## 

## 