# Job\_Application\_Form (App)

Job Application Form is an app with a single page to take information from authenticated user and send them to the database. Authenticated user can access to change the form every time and the unit of Kafka in the Job\_Application\_Form app sends an Update message to the Distribute app (ApacheKafka).

## The contents of the page form:

**Code :** specify the Edit button for all the user entries

Title: Job Application Form

Note: Please provide the following information(all questions are required):

### LinkedIn Information

Note: Please Note the password and all sensitive entries will be encrypted before saving.

* **LinkedIn Email:** [Enter your LinkedIn email address]
* **LinkedIn Password:** [Enter your LinkedIn password]
* **Re-enter LinkedIn Password:** [Enter your LinkedIn password]

**Code**: While inputting the password, the character must be shown as a black circle.

After inter the password and re-entering the password, check if are they the same or not, if not, write a message, that they are not the same.

### Job Preferences

* **Remote Jobs:** **(Combo Box)**
  + Yes
  + No
* **Jobs with Fewer Applicants:** **(Combo Box)**
  + Yes
  + No

### Experience Level (Check Box)

* Internship
  + Yes or No
* Entry Level
  + Yes or No
* Associate Level
  + Yes or No
* Mid-Senior Level
  + Yes or No
* Director Level
  + Yes or No
* Executive Level
  + Yes or No

**Code**: By default, all Check Boxes are yes

### Job Type (Check Box)

* Full-time
  + Yes or No
* Contract
  + Yes or No
* Part-time
  + Yes or No
* Temporary
  + Yes or No
* Internship
  + Yes or No
* Volunteer
  + Yes or No

### Job application Posting Date (Combo Box)

### Note: If you Choose All Time, We can apply for more job opportunities per Day

* All Time
* Month
* Week
* 24 Hours

### Job Positions:

### Note: Please add what job title you are looking for, Example: Python Developer

* Python Developer
* Django Developer
* ...

Code: the user can add and delete Job positions

### Job Locations:

### Note: please define the workplace location:

### If you write the country name, it contains all the cities inside, for example, England.

### Or you can specify just the city name, for example, London.

### You can add several city names, for example, London, and Manchester.

* Add location (After adding, show it to the user)

Code: the user can add and delete Locations

### Additional Information

* **Resident Status: (Check Box)**
  + Yes or No
* **Distance from Job Location:** **(Combo Box) (user can select just one)**
  + 0 miles
  + 5 miles
  + 10 miles
  + 25 miles
  + 50 miles
  + 100 miles

1. Please provide the following additional information**:**

* **Resume:** [Upload your resume]
* **Cover Letter:** [Upload your cover letter (optional)]

**Code:** the user can Upload just Docx and PDF format. Check the file is safe, base safety protocols and then upload it to the database.

### Please answer the following questions:

* Do you have a valid driver's license? (Combo box)
  + Yes or No
* Will you require a sponsorship for an employment visa? (Combo box)
  + Yes or No
* Are you legally authorized to work in [Country]? (Combo box)
  + Yes or No
* Do you have the necessary licenses or certifications? (Combo box)
  + Yes or No
* Can you start immediately? (Combo box)
  + Yes or No
* Are you comfortable with commuting? (Combo box)
  + Yes or No
* Are you comfortable with remote work? (Combo box)
  + Yes or No
* Are you willing to take a drug test? (Combo box)
  + Yes or No
* Are you willing to complete an assessment? (Combo box)
  + Yes or No
* Do you have a security clearance? (Combo box)
  + Yes or No
* Have you completed a [Degree Type] degree? (Combo box)
  + Yes or No

Code: By Default: Yes

* Are you willing to undergo a background check? (Combo box)
  + Yes or No

Code: By Default: Yes

1. Please provide the following information**:**

* **University GPA:** [Enter your GPA]

Code: By Default: A

* **Minimum Salary Expectation:** [Enter your minimum salary expectation]
* **Languages:** (the user can add and delete language)
  + English: [Native or Bilingual, Conversational, Professional, None]
* **Notice Period:** [Enter your notice period in weeks] (user can Edit)
* **Years of Experience:** (the user can add and delete experience and years of experience )
  + IT Expert: [Enter years of experience]
  + ...

### Personal Information:

Code: The user can edit All entries

* 1. Pronouns: Checkbox**:** [Mr., Ms., Mx., etc.]
  2. First Name: [Enter your first name]
  3. Last Name: [Enter your last name]
  4. Phone Number: [Enter your phone number with country code]
  5. Street Address: [Enter your street address]
  6. City: [Enter your city]
  7. State: [Enter your state]
  8. Zip Code: [Enter your zip code]
  9. LinkedIn Profile: [Enter your LinkedIn profile URL]
  10. Website: [Enter your website or GitHub profile URL]
  11. Message to Manager: [Enter your message to the hiring manager]

1. Please provide the following information **(for US-based jobs):**

* **Gender:**

Checkbox**:** [Male, Female, Non-binary, Other]

* **Race:** None
* **Veteran Status:** (Combo Box)
  + Yes or No
* **Disability Status:** (Combo Box)
  + Yes or No
* **Citizenship:** (Combo Box)
  + Yes or No
* **Security Clearance:** (Combo Box)
  + Yes or No

# Recommendations :

**Security and Privacy Considerations**

1. **Password and Sensitive Data Storage**
   * **LinkedIn Password Encryption**: Encrypt the LinkedIn password before saving. Use AES encryption with a secure key management approach.
   * **LinkedIn Password Decryption:** The backend must have accessibility to decrypt the password, and give a solution to read the password by the backend when extracted from the database.
   * **Secure File Handling**:
     + Ensure files (e.g., resumes, and cover letters) are stored in a secure, private directory.
   * **Sensitive Information Access Control**: Ensure only authorized services and users can access or decrypt sensitive data.
2. **Data Validation and Sanitization**
   * **Server-Side Validation**: Verify that all fields meet the required criteria to prevent invalid data storage.
   * **Sanitization**: Clean any text input fields to prevent SQL injection, cross-site scripting (XSS), and other malicious injections.
3. **Rate Limiting and ReCAPTCHA**
   * Add rate limiting to prevent bots from submitting multiple registrations.
   * Use Google reCAPTCHA on the form to prevent spam and bot submissions.
4. **Session Security and CSRF Protection**
   * **Session Security**: Use Django’s session management with secure cookies.
   * **CSRF Protection**: Enable Django’s CSRF protection to prevent cross-site request forgery.
5. **Audit Logging and Monitoring**
   * Track and log all sensitive actions, such as form submissions, changes to job preferences, and LinkedIn credentials updates.
   * Regularly review these logs for any suspicious activity.
6. **Privacy Compliance**:
   * **GDPR/CCPA Compliance**: Ensure data is managed in compliance with relevant privacy regulations. Allow users to delete or update their information.
   * **User Consent**: Clearly state in the form or on the site’s privacy policy how data will be used.

**Example Workflow for Job Preferences Form Submission**

1. **Authenticated User Completes and Submits the Form**:
   * The front end sends the data to the backend via a secure HTTPS POST request.
2. **Backend Processing**:
   * Django validates the form data, encrypts sensitive fields, and saves it to the database.
   * The Unit of Kafka in the Job\_Application\_Form app sends an Update message to the Distribute app.
3. **Status Updates and Logging**:
   * Application status is logged and shown in the user profile.
   * An authenticated user can edit the whole of the form in its profile.
   * Kafka events keep the system updated and notify users of successful or failed applications.