

# Final Project

team16

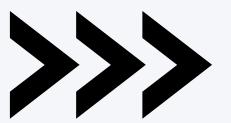
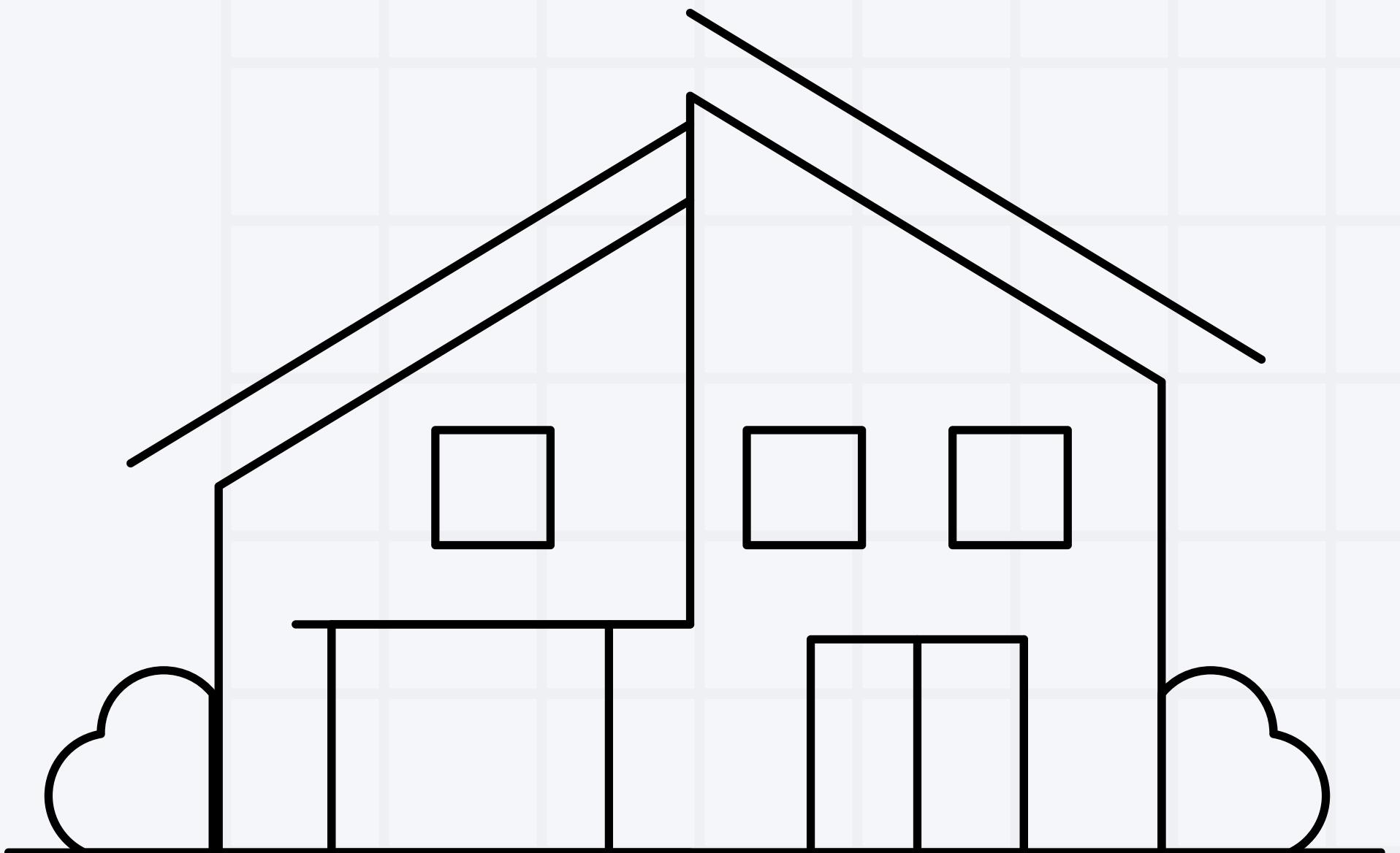
112550074彭博脩

112550108梁家熏

112550109楊榮竣

112550138呂柏翰

112550046張竣程(W for win)



# Main Idea

Give someone who wants to find new work a simple way to find their ideal job.



>>>

# Dataset & Database

Our dataset is from kaggle, include tables like company, job, skill, etc., we delete some unnecessary column and infile the remain column into mysql database.



## LinkedIn Job Postings (2023 - 2024)

A Snapshot Into the Current Job Market

[kaggle.com](https://kaggle.com)

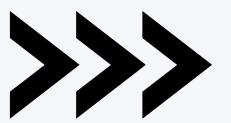
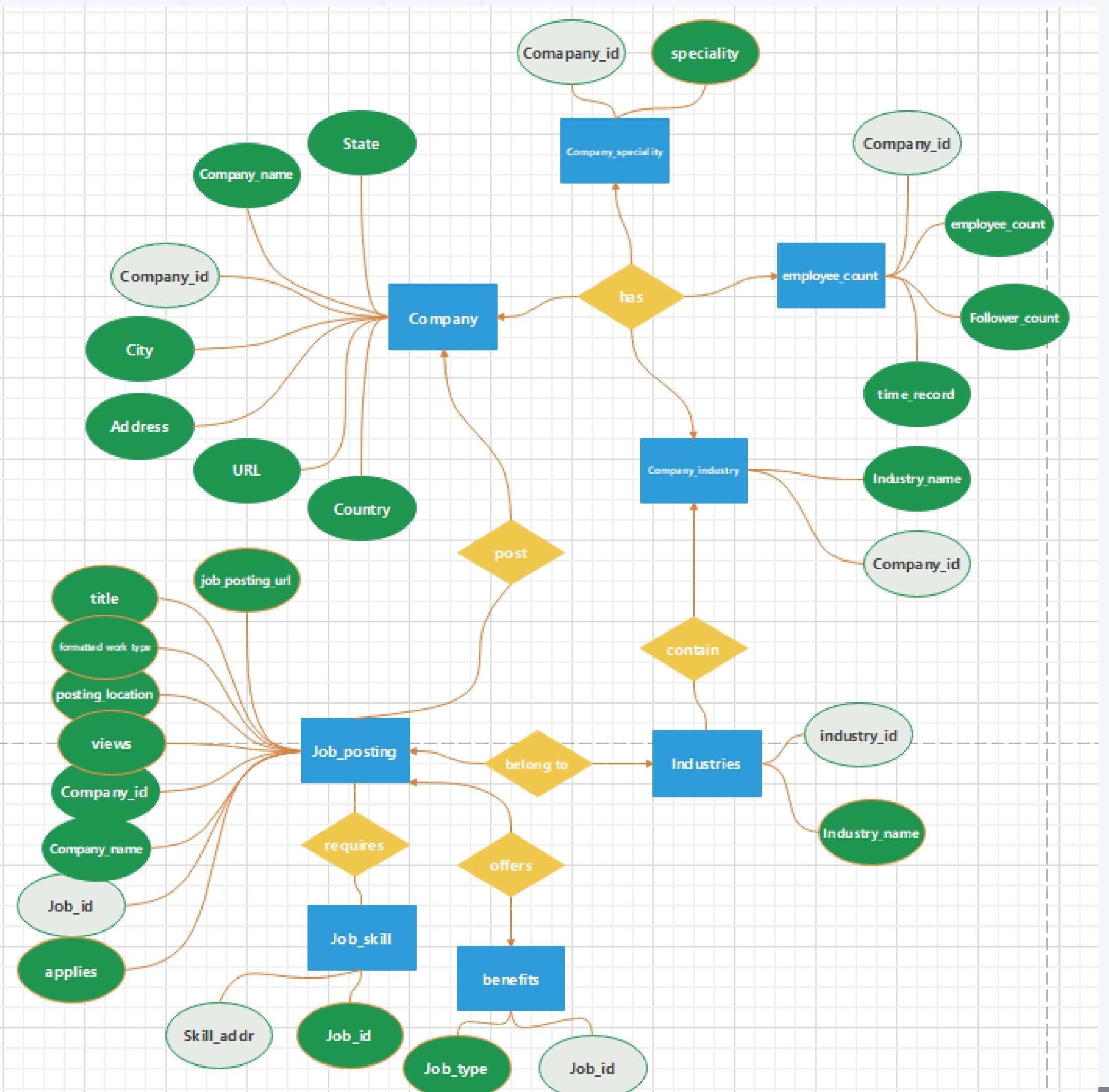


**Data Explorer**  
Version 13 (556.5 MB)

- companies
  - companies.csv
  - company\_industries.cs
  - company\_specialities.c
  - employee\_counts.csv
- jobs
  - benefits.csv
  - job\_industries.csv
  - job\_skills.csv
  - salaries.csv
- mappings
  - industries.csv
  - skills.csv
  - postings.csv



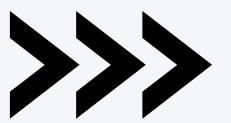
# ER model



# Sample case

## company

```
mysql> SELECT * FROM company LIMIT 5;
+----+----+----+----+----+----+
| Company_id | Company_name           | State | Country | City          | Address                | URL
+----+----+----+----+----+----+
| 10000      | Hempel A/S              | .     | DK      | Kgs. Lyngby, Copenhagen | Lundtoftegaardsvej 90   | https://www.linkedin.com/company/hempel-as
| 10001      | HUB International         | IL    | US      | Chicago        | 300 North LaSalle, 17th Floor | https://www.linkedin.com/company/hub-international
| 10001423   | Coca-Cola Beverages Florida | FL    | US      | Tampa          | 10117 Princess Palm Ave. | https://www.linkedin.com/company/cokeflorida
| 10001514   | Achievement Center of LECOM Health | PA    | US      | Erie           | 4950 West 23rd Street       | https://www.linkedin.com/company/achievementctr
| 100027     | Citizen Watch America     | NY    | US      | New York       | 350 Fifth Avenue, 29th Floor | https://www.linkedin.com/company/citizen-watch-america
+----+----+----+----+----+----+
5 rows in set (0.00 sec)
```



# Sample case

## company\_industry

```
mysql> SELECT * FROM company_industry LIMIT 5;
+-----+-----+
| Company_id | Industry_name |
+-----+-----+
| 10000      | Chemical Manufacturing |
| 10001      | Insurance |
| 10001423    | Food and Beverage Services |
| 10001514    | Non-profit Organizations |
| 100027      | Retail Luxury Goods and Jewelry |
+-----+
5 rows in set (0.00 sec)
```



# Sample case

## company\_speciality

```
mysql> SELECT * FROM company_speciality LIMIT 5;
+-----+-----+
| Company_id | Speciality
+-----+-----+
| 10000      | Protective coatings
| 10001      | Insurance and risk management solutions for business
| 10001423   | Beverages
| 10001514   | Early Intervention
| 100033     | Mortgage
+-----+-----+
5 rows in set (0.00 sec)
```



# Sample case

## employee\_count

```
mysql> SELECT * FROM employee_count LIMIT 5;
+-----+-----+-----+-----+
| Company_id | Employee_count | Follower_count | time_recorded |
+-----+-----+-----+-----+
| 10000      |        3428 |       99575 | 1712381054 |
| 10001      |       14334 |      177115 | 1712640374 |
| 10001423    |        2140 |       72158 | 1712673783 |
| 10001514    |        147 |         660 | 1712643840 |
| 100027      |        596 |      20454 | 1713467930 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```



# Sample case

## industries

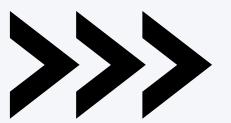
```
mysql> SELECT * FROM industries LIMIT 5;
+-----+-----+
| Industry_id | Industry_name |
+-----+-----+
| 1           | Defense and Space Manufacturing |
| 10          | Legal Services |
| 100         | Non-profit Organizations |
| 101         | Fundraising |
| 102         | Strategic Management Services |
+-----+-----+
5 rows in set (0.00 sec)
```



# Sample case

## job\_industry

```
mysql> SELECT * FROM job_industry LIMIT 5;
+-----+-----+
| Job_id | Industry_id |
+-----+-----+
| 1014822088 | 4           |
| 103254301  | 99          |
| 103860943  | 92          |
| 1093227543 | 34          |
| 10998357   | 32          |
+-----+-----+
5 rows in set (0.01 sec)
```



# Sample case

## benefits

```
mysql> SELECT * FROM benefits LIMIT 5;
+-----+-----+
| Job_id | Job_type |
+-----+-----+
| 3887473071 | Medical insurance |
| 3887473071 | Vision insurance |
| 3887473071 | Dental insurance |
| 3887473071 | 401(k) |
| 3887473071 | Student loan assistance |
+-----+
5 rows in set (0.00 sec)
```



# Sample case

## job\_skill

```
mysql> SELECT * FROM job_skill LIMIT 5;
+-----+-----+
| Job_id | Skill_addr |
+-----+-----+
| 1014822088 | MRKT |
| 103254301 | DSGN |
| 1093227543 | SALE |
| 10998357 | MGMT |
| 11009123 | DSGN |
+-----+-----+
5 rows in set (0.00 sec)
```



# Sample case

## job\_posting

```
mysql> SELECT * FROM job_posting LIMIT 5;
+-----+-----+-----+-----+-----+-----+-----+-----+
| Job_id | Company_name | Title           | Posting_location | Company_id | Views | Formatted_work_type | Applies | Job_posting_url |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1014822088 | Tracker       | Marketing Specialist | United States | 255252    | 7     | Full-time          | 0       | NULL             |
| 103254301   | Raw Cereal     | Producer          | United States | 81942316  | 7     | Contract           | 0       | NULL             |
| 103860943   |                 | Customer Service / Reservationist | Providence, RI |          | 3     | Part-time          | 0       | NULL             |
| 1093227543  | POSHI          | Sales Associate Natural Food Products | Miami, FL    | 11238451  | 71    | Full-time          | 0       | NULL             |
| 10998357    | The National Exemplar | Assistant Restaurant Manager | Cincinnati, OH | 64896719  | 8     | Full-time          | 0       | NULL             |
+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```



# Function of application

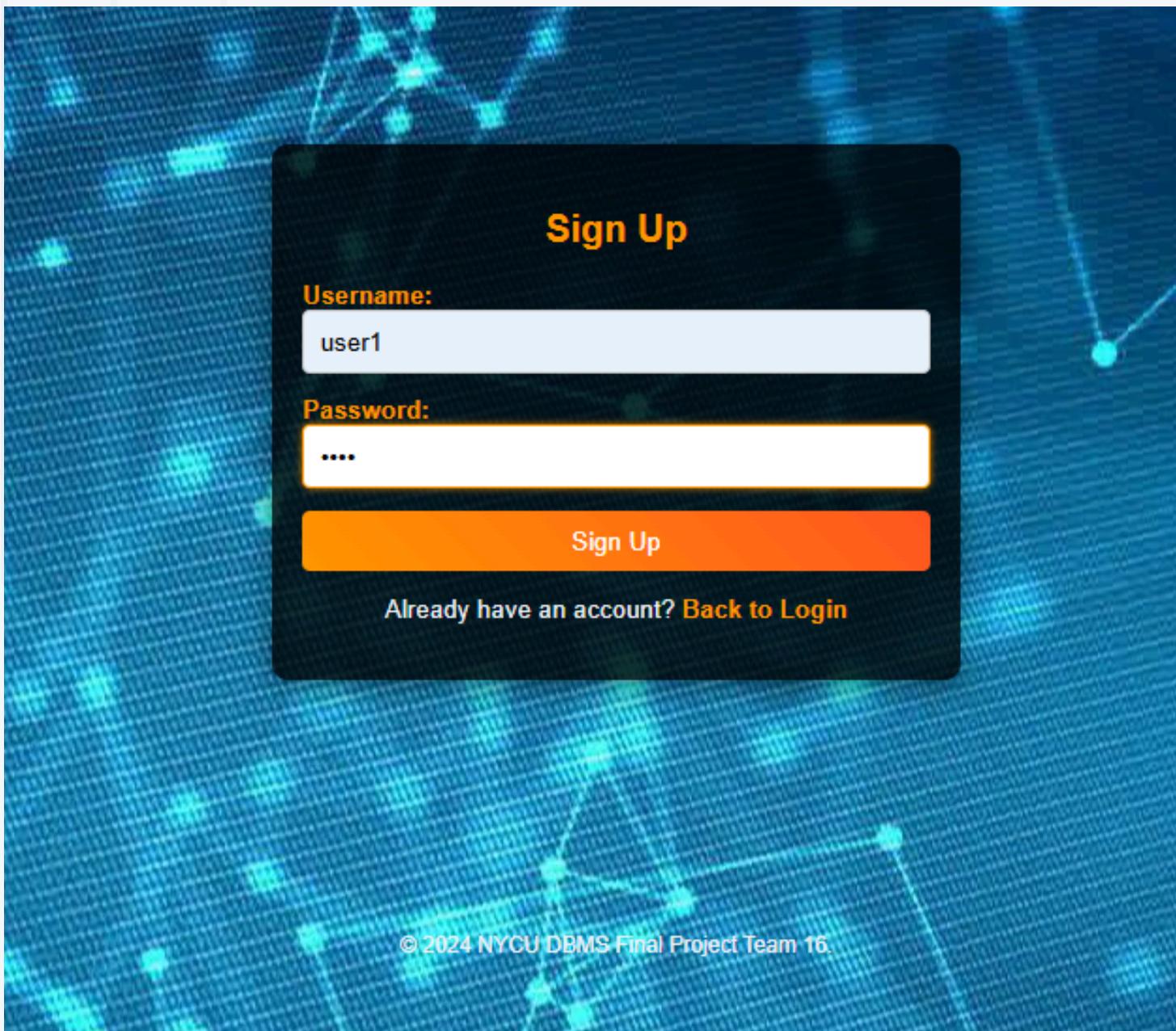
## For User



- Create account
- Add jobs to shopping cart
- Search jobs
- Change password
- Remove jobs from shopping cart



# CREATE



**Sign Up**

**Username:**  
user1

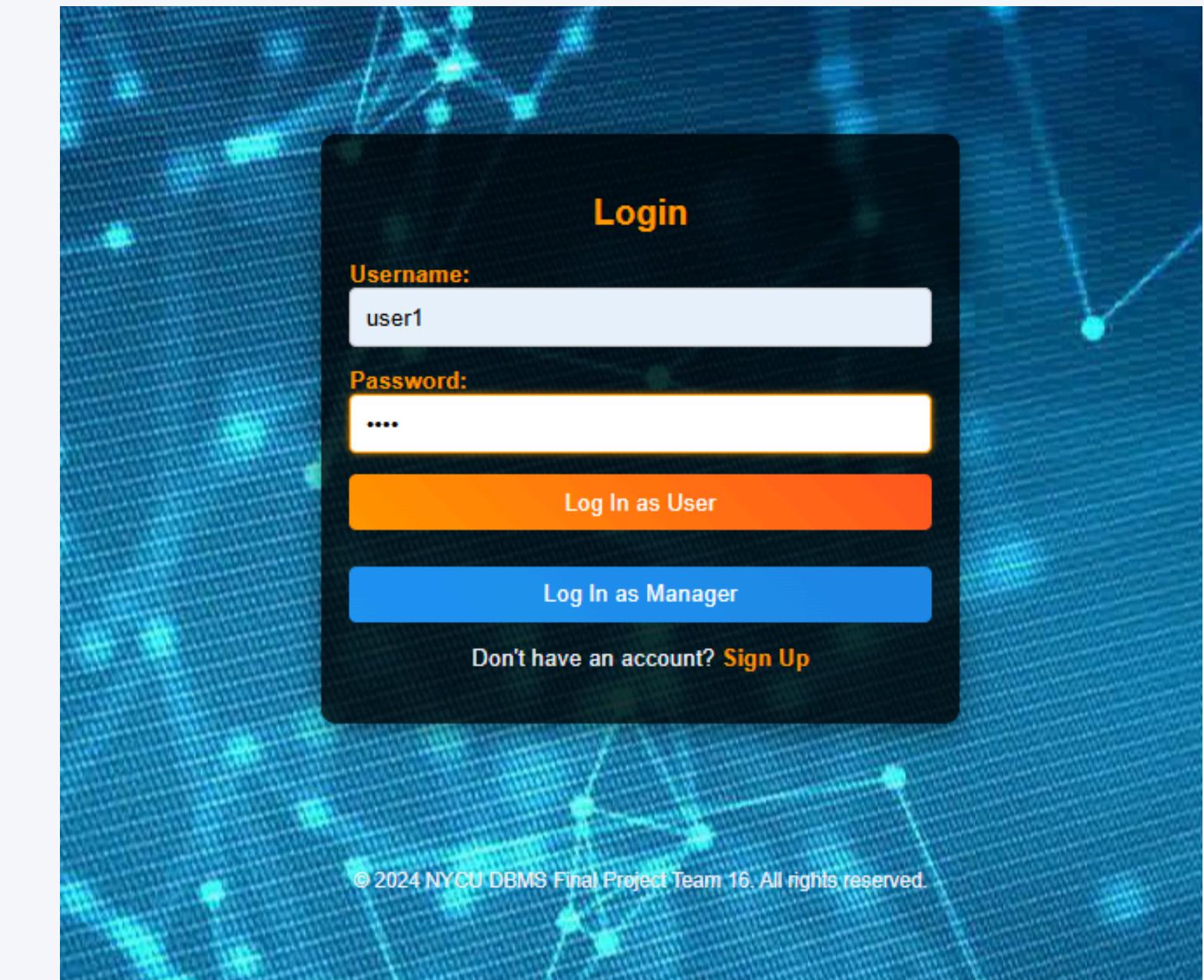
**Password:**  
....

**Sign Up**

Already have an account? [Back to Login](#)

© 2024 NYCU DBMS Final Project Team 16.

This image shows the 'Sign Up' page of a web application. The background is a dark blue grid with glowing cyan nodes and connections, suggesting a network or database structure. The form itself is a dark rectangular box with orange and white text. It contains fields for 'Username' (filled with 'user1') and 'Password' (filled with '....'). Below these is an orange 'Sign Up' button. At the bottom of the form, there is a link 'Already have an account? [Back to Login](#)'.



**Login**

**Username:**  
user1

**Password:**  
....

**Log In as User**

**Log In as Manager**

Don't have an account? [Sign Up](#)

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This image shows the 'Login' page of the same web application. The background and overall design are identical to the 'Sign Up' page. The form is a dark rectangle with orange and white text. It has fields for 'Username' (filled with 'user1') and 'Password' (filled with '....'). Below these are two buttons: an orange one labeled 'Log In as User' and a blue one labeled 'Log In as Manager'. At the bottom of the form, there is a link 'Don't have an account? [Sign Up](#)'. A copyright notice at the bottom right reads '© 2024 NYCU DBMS Final Project Team 16. All rights reserved.'

>>>

# CREATE

**Job Finder**  
Your gateway to finding the perfect job

Home Companies Log out Change password

## Find Your Dream Job Today

Search from thousands of job listings tailored to your preferences.

Search for jobs, skills, or companies...

**Listings**

Position	Company	Location	Skill	Salary
Software Engineer	Ross Stores, Inc.	Chicago, IL	Engineering	65000-75000 USD
Store Manager	Ross Stores, Inc.	Nashville, TN	Sales	70000-80000 USD
Manager, Customer Service	OneBridge Benefits	Buffalo-Niagara Falls Area	Management	75000-85000 USD

[View All Listings](#) [Refine Search](#) [Sort by Salary](#) [Sort by Location](#)



**Job Finder**  
Your gateway to finding the perfect job

Home Companies Log out Change password

## Find Your Dream Job Today

Search from thousands of job listings tailored to your preferences.

Search for jobs, skills, or companies...

• Job added to your shopping cart!

**Previously Viewed Job Listings**

Position	Company	Location	Skill	Salary
Safety Technician	Sterling Engineering	Northlake, IL	Strategy/Planning	65000-75000 USD
Store Manager	Ross Stores, Inc.	Nashville, TN	Sales	70000-80000 USD
Manager, Customer Service	OneBridge Benefits	Buffalo-Niagara Falls Area	Management	75000-85000 USD



**Your Shopping Cart**  
Find your dream job and click away!

Position	Company	Location	Skill	Salary
Safety Technician	Sterling Engineering	Northlake, IL	Strategy/Planning	65000-75000 USD

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# READ

**Job Finder**  
Your gateway to finding the perfect job

Home Companies Log out Change password

**Find Your Dream Job Today**  
Search from thousands of job listings tailored to your preferences.

Search for jobs, skills, or companies... **Search**

**Featured Job Listings**

- Safety Technician**  
Company: Sterling Engineering  
Location: Northlake, IL  
Skill: Strategy/Planning  
Salary: 65000-55000 USD  
**Add to Cart**
- Store Manager**  
Company: Ross Stores, Inc.  
Location: Nashville, TN  
Skill: Sales  
Salary: 70000-60000 USD  
**Add to Cart**
- Manager, Customer Service**  
Company: OneBridge Benefits  
Location: Buffalo-Niagara Falls Area  
Skill: Management  
Salary: 75000-65000 USD  
**Add to Cart**
- Executive Assistant Office Manager**  
Company: Confidential
- EPC Solar Sales Director - Utilities & Commercial**
- Instrumentation and Controls Engineer**  
Company: JCO Workforce Solutions, LLC



**Job Finder**  
Your gateway to finding the perfect job

Home Companies Log out Change password

**Find Your Dream Job Today**  
Search from thousands of job listings tailored to your preferences.

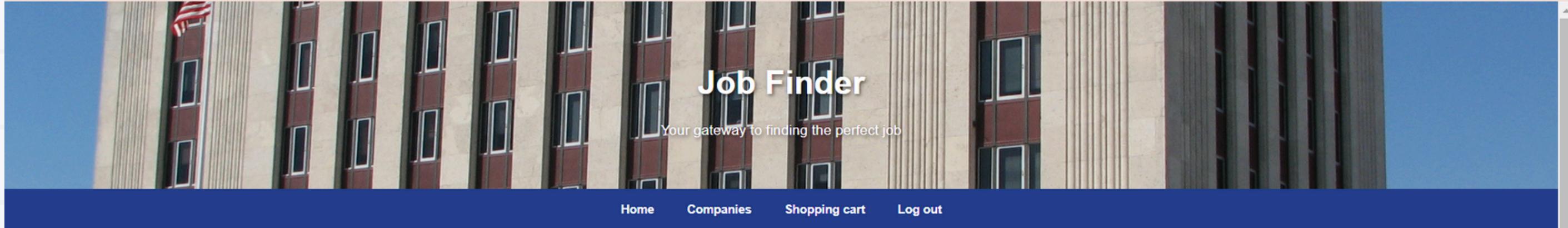
Search for jobs, skills, or companies... **Search**

**Featured Job Listings**

- Sustainability Business Operations Coordinator - Stanford University**  
Company: Another Source  
Location: Redwood City, CA  
Skill: Administrative  
Salary: 95000-85000 USD  
**Add to Cart**
- Business Data Analyst**  
Company: Infogain  
Location: Springdale, AR  
Skill: Analyst  
Salary: 45-40 USD  
**Add to Cart**
- Accounting and Business Analyst**  
Company: Energy Swing Windows  
Location: Monroeville, PA  
Skill: Research  
Salary: 25-20 USD  
**Add to Cart**
- Human Resources Business Partner**
- Business Development Specialist**
- Inside Business Development Manager**



# READ



The screenshot shows the homepage of a job search website called "Job Finder". The header features a large, light-colored building with many windows and an American flag. The title "Job Finder" is prominently displayed, followed by the tagline "Your gateway to finding the perfect job". A dark blue navigation bar contains links for "Home", "Companies", "Shopping cart", and "Log out". Below the header is a search bar with the placeholder "Search for companies" and a blue "Search" button. The main content area displays six company profiles in a grid:

<b>Hempel A/S</b> Country: Kgs. Lyngby, Copenhagen, , DK Address: Lundtoftegaardsvej 90 <a href="https://www.linkedin.com/company/hempel-as">https://www.linkedin.com/company/hempel-as</a>	<b>HUB International</b> Country: Chicago, IL, US Address: 300 North LaSalle, 17th Floor <a href="https://www.linkedin.com/company/hub-international">https://www.linkedin.com/company/hub-international</a>	<b>Coca-Cola Beverages Florida</b> Country: Tampa, FL, US Address: 10117 Princess Palm Ave. <a href="https://www.linkedin.com/company/cokeflorida">https://www.linkedin.com/company/cokeflorida</a>
<b>Achievement Center of LECOM Health</b> Country: Erie, PA, US	<b>Citizen Watch America</b> Country: New York, NY, US Address: 350 Fifth Avenue, 29th Floor	<b>City First Mortgage Services, LLC</b> Country: Bountiful, Utah, US



# UPDATE

## Job Finder

Your gateway to finding the perfect job

[Home](#)   [Companies](#)   [Log out](#)

### Change Password

Current Password

Enter your current password

New Password

Enter your new password

Confirm New Password

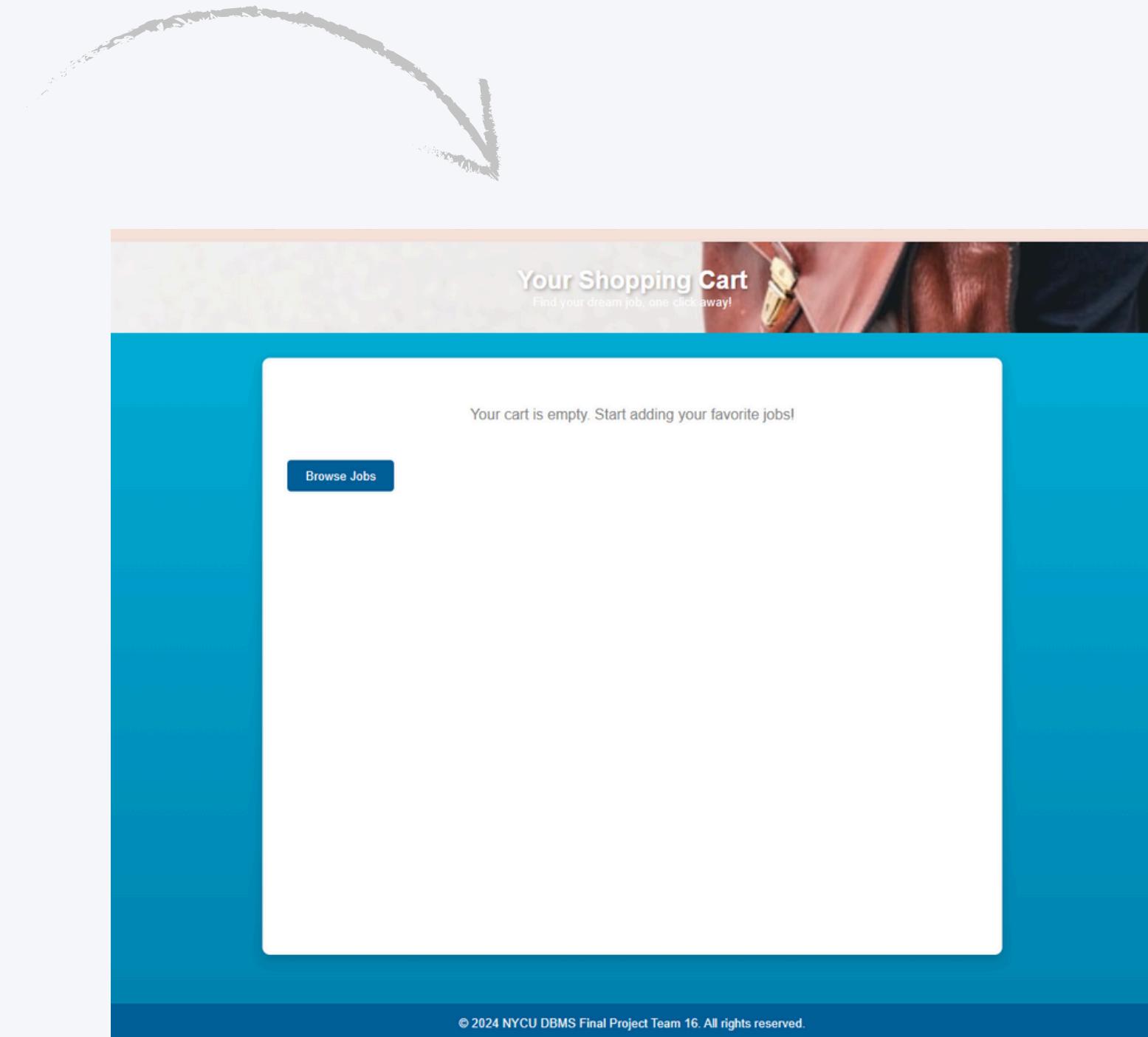
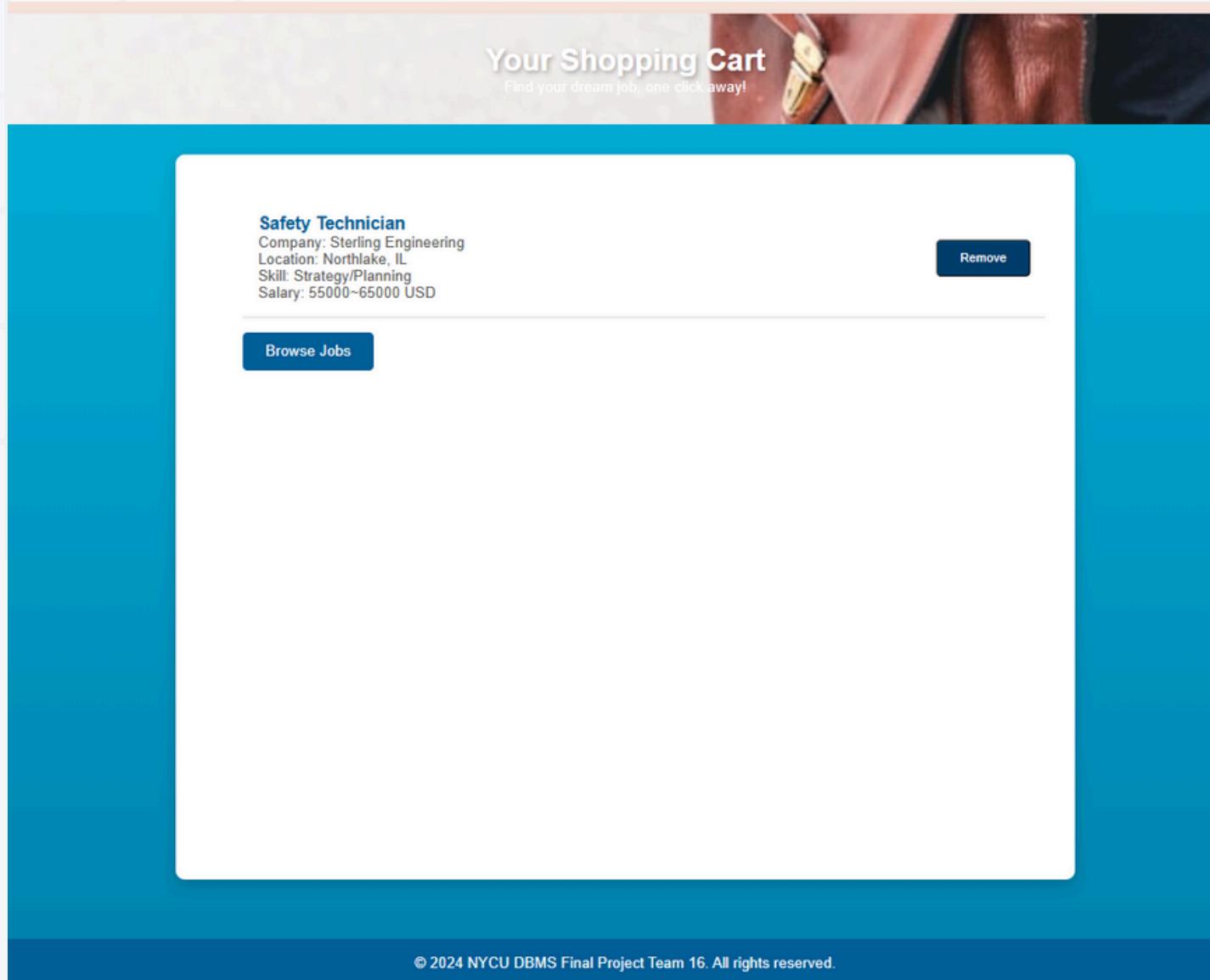
Re-enter your new password

[Change Password](#)

[← Back to Home](#)



# DELETE



>>>

# Function of application

For Manager: maintain jobs



- Create job to database
- Search jobs  
• latest 5 add data
- Update jobs data
- Remove jobs from the database



# CREATE

Home   Create   Read   Update   Delete

## Create Page

Title:

location:

Company name:

Max Salary:

Min Salary:

**Submit**

>>>

# READ

Home Create Read Update Delete

## Read Page

Search by Title, Company Name, or S:

Search

Search data

Title	Posting Location	Company Name	Max Salary	Min Salary
Marketing Specialist	United States	Tracker	80000.0	70000.0
Producer	United States	Raw Cereal	300000.0	60000.0
Sales Associate Natural Food Products	Miami, FL	POSHI	120000.0	60000.0
Assitant Restaurant Manager	Cincinnati, OH	The National Exemplar	65000.0	45000.0
Office Manager	Chino, CA	Genlabs Corp	70000.0	65000.0

Latest 5 Entries

Title	Posting Location	Company Name	Max Salary	Min Salary
Marketing Specialist	United States	Tracker	80000.0	70000.0
Producer	United States	Raw Cereal	300000.0	60000.0
Sales Associate Natural Food Products	Miami, FL	POSHI	120000.0	60000.0
Assitant Restaurant Manager	Cincinnati, OH	The National Exemplar	65000.0	45000.0
Office Manager	Chino, CA	Genlabs Corp	70000.0	65000.0

&gt;&gt;&gt;

# UPDATE

Home   Create   Read   Update   Delete

## Update Page

Enter Title or ID to Update:

Producer

Search

Update Record for:

Select Field to Update:

Min Salary

Enter New Value:

0

Update

>>>

# DELETE

Home   Create   Read   Update   Delete

### Delete Page

Producer

Search

Title	Company	Location	Max Salary	Min Salary	Action
Video Producer	American Water Works Association	Denver, CO	78500.0	77000.0	<a href="#">Delete</a>
CG Producer	Team One	Los Angeles, CA	101500.0	64500.0	<a href="#">Delete</a>
Personal Lines Insurance Producer/Business Development (High Net Worth/Private Client)	QUAD, a SolomonEdwards Company	Boston, MA	150000.0	100000.0	<a href="#">Delete</a>
Audio Producer	AMA	New York, NY	70000.0	55000.0	<a href="#">Delete</a>
Executive Mixed Reality Producer, Entertainment Experiences	Meta	Seattle, WA	258000.0	184000.0	<a href="#">Delete</a>
Senior Podcast Producer	Betches Media	New York City Metropolitan Area	100000.0	80000.0	<a href="#">Delete</a>
Assistant Producer	NBCUniversal	Universal City, CA	60000.0	50000.0	<a href="#">Delete</a>
Producer, Dateline Weekly Podcast	Dice	New York, NY	160000.0	130000.0	<a href="#">Delete</a>
Producer	Warner Bros. Discovery	Burbank, CA	116610.0	62790.0	<a href="#">Delete</a>
Sales Associate- Inside Sales Producer (Direct Hire)	The Job Network	Everett, WA	100000.0	65000.0	<a href="#">Delete</a>
Social Media Producer, CBS Sports Soccer (REMOTE)	CBS Sports	New York, NY	65000.0	51000.0	<a href="#">Delete</a>
Local News Producer	KCRA 3 & My58 Television	Sacramento, CA	68000.0	54000.0	<a href="#">Delete</a>
Digital Producer	AZ HR Hub	United States	90000.0	75000.0	<a href="#">Delete</a>
Executive Producer, Special Projects	StoryCorps	New York, United States	115000.0	105000.0	<a href="#">Delete</a>
Weekend Producer/Content Producer, Telemundo Area de la Bahia 48	NBCUniversal Telemundo Enterprises	San Jose, CA	80000.0	65000.0	<a href="#">Delete</a>
Commercial Risk Producer	Aon	Miami, FL	200000.0	100000.0	<a href="#">Delete</a>

&gt;&gt;&gt;

# Contribution

彭博脩

html  
ER model  
ppt

梁家熏

Sign up/login  
in/log out  
html  
user page

楊榮竣

html  
user page  
data cleaning  
sql requesting

呂柏翰

html  
Management  
Page  
sql requesting





# Thank You