

Aim

This project aims to provide a website to connect people who are looking for a job and people who are open to refer easier. Currently, the reference system are mainly arranged by:

1. Online cheating group & websites
2. Wechat Official account

For people who are looking for a job, especially for new immigrants and new grads, it is actually hard for them to get connection with people who currently work in industry. For students the problem is that they have heavy school work and actually no idea about where they will be after they graduate. For new immigrants, they live in a different country which makes connection harder.

For online cheating group, like wechat group, one of the major problem is that people

1. Do not have time to view all message
2. There are always much more group which people can not join all of them
3. It hard to start first step, on both side
4. People usually do not have much information open to public before they have connection, like where they work and are they willing to reference other / need a reference
5. Specifically for chatting group, there is usually a limitation in number of people in group, which usually people won't leave group but more willing to join more, so new people can not join the old groups

For Wechat Official Account, they are mostly (90% ?) use for business purposes, I'm not against it but it is strange to build a barrier between people and many of them ask people to pay for that for a job reference. Also, increasing barriers means communication is harder which people must have their message transferred by third parties.

Tech Design(For now, may update later):

Backend: java spring + Mysql + Redis

Frontend: React

The first unofficial version will host on heroku for short period of time for testing purpose and looking for public option for update

Service design:

The system will include 2 parts, frontend and backend.

Frontend use to provided web interface, currently include 4 pages

1. Login

2. Main page

Go to refer / help page

Update company / email / willing to do refer setting

3. Refer page, people are able to view all refer request(only name and email is shown on website, the resume will send to user`s email after someone make a request)

| Refer Page | | |
|------------|-------|---|
| name | email | <input type="button" value="accept"/> <input type="button" value="reject"/> |
| | | |
| | | |
| | | |

The user can click on accept button and the system will send email to people tell them they are referenced(we can not check if user actual do it or not, this is just aim for tell the other side)

Reject button will remove that item in the list permanently, the other side would not be noticed.

4. New Help Page

People ask for a refer here

| | | |
|----------|----------------------|---------------------------------------|
| Name | <input type="text"/> | |
| Email | <input type="text"/> | <input type="button" value="resume"/> |
| Company | <input type="text"/> | |
| Job Id | <input type="text"/> | |
| Job Link | <input type="text"/> | <input type="button" value="submit"/> |

People filling their information here and after clicking submit, the system will send an email to all users registered for that company and willing to do refer. We will start with a short list of company names but willing to accept more company names.

5. Register

| | | |
|-----------------|----------------------|---------------------------------------|
| Name | <input type="text"/> | |
| Email | <input type="text"/> | |
| Current Company | <input type="text"/> | <input type="checkbox"/> |
| Password | <input type="text"/> | |
| Password again | <input type="text"/> | <input type="button" value="submit"/> |

This is for registration, people filling their information here.

The checkbox next to current company input is for willing to do refer, click on that means would like to do a reference, this can be able to update in main page after

6. Help Page

| date | company | jobid | acceptd |
|------|---------|-------|---------|
| | | | |
| | | | |

List help submitted by current user

Backend

RestFul API:

/refer/accept

Accept refer request

/refer/decline

Decline refer request

/user

Update email / company / willing to update

/help

Accept a refer request, create new email with information and sent to all user base on company

/register

Add new user

/helps

Get current user information of all help submitted

Mysql

Table 1

Id username hashed_password email company_id refer_willing

Table 2

Id Refer_user_id

Table 3

Id date Compay_name Job_id status

Table 4

Id Company_name user_id

Phase1:

Finish login/register

Phase2:

Finish help refer

Phase3:

Add emails service