



اَوْنُوْزْ سِيْتِيْ تِيْكَوْ لُوْ كِيْ مَارَا
UNIVERSITI
TEKNOLOGI
MARA

CSC318: WEB APPLICATION DEVELOPMENT

Semester October 2020 – February 2021

REPORT: Job Application Management System

Prepared by:

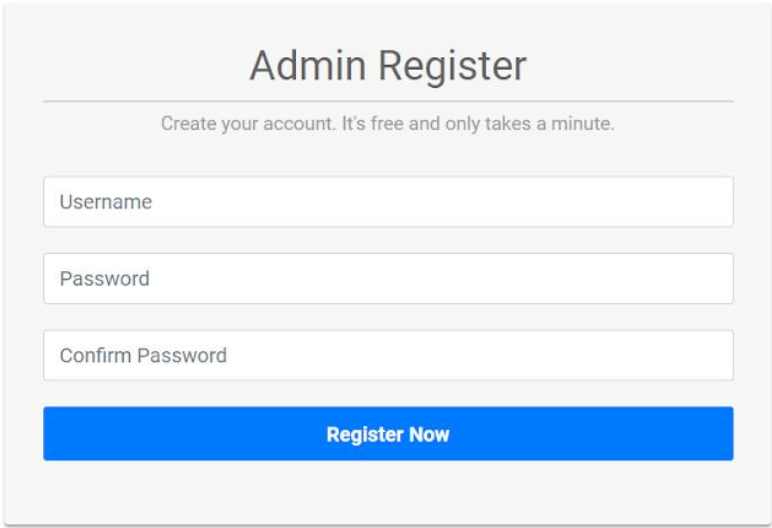
Name	Student ID	Group
1. Faris Saufi bin Mohd Shaid	2018672866	M3CS1105E
2. Marha Midhatiey Binti Rusli	2018244938	M3CS1105E
3. Nur Aliah Batrisyia binti Mawardi	2018625968	M3CS1105E
4. Nurfatihah Syaqina binti Yunus	2018253806	M3CS1105E

Prepared for:
Sir Zainal Fikri bin Zamzuri

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1.0 Admin



The image shows a web form titled "Admin Register". Below the title is a subtitle: "Create your account. It's free and only takes a minute." There are three input fields: "Username", "Password", and "Confirm Password". Below these fields is a blue button labeled "Register Now". The form is centered on a light gray background.

Figure 1 : Admin Register

Figure 1 shows the interface for the admin registration. The registration page allows the admin to fill in the username, password, and confirm password. After all the needed data has been entered, users can click on the 'Register Now' button to register the admin into the admin webpage system.

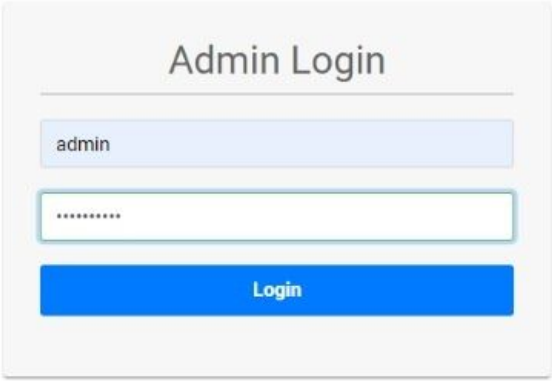
The image shows a web interface for an 'Admin Login'. It features a light gray rectangular box centered on a white background. Inside the box, the title 'Admin Login' is displayed at the top in a dark gray font. Below the title is a horizontal line. Underneath the line, there are two input fields: the first is a light blue box containing the text 'admin', and the second is a white box with a light blue border containing ten asterisks '*****'. Below these fields is a solid blue rectangular button with the word 'Login' in white text.

Figure 2 : Admin Login

Figure 2 shows the interface for admin login. The login page allows the administrator to gain access to the system by entering the admin username and password.























KERJA JUNCTION | ADMIN

CategoriesCompaniesJobseekersFeedback

admin

List of Categories

+ Add New

Category ID	Category Name	Action
1	Art and Design	 
2	Automotive	 
3	Consulting	 
4	E-Commerce	 
5	Education	 
6	Engineering	 
7	Financial Services	 
8	Healthcare	 
9	Logistics	 
10	Technology	 
11	Travel and Tourism	 

Total: 11 Records

Figure 3 : List of Categories

Figure 3 shows a list of categories interface. In this interface it will display a category id, category name with action button add new button.

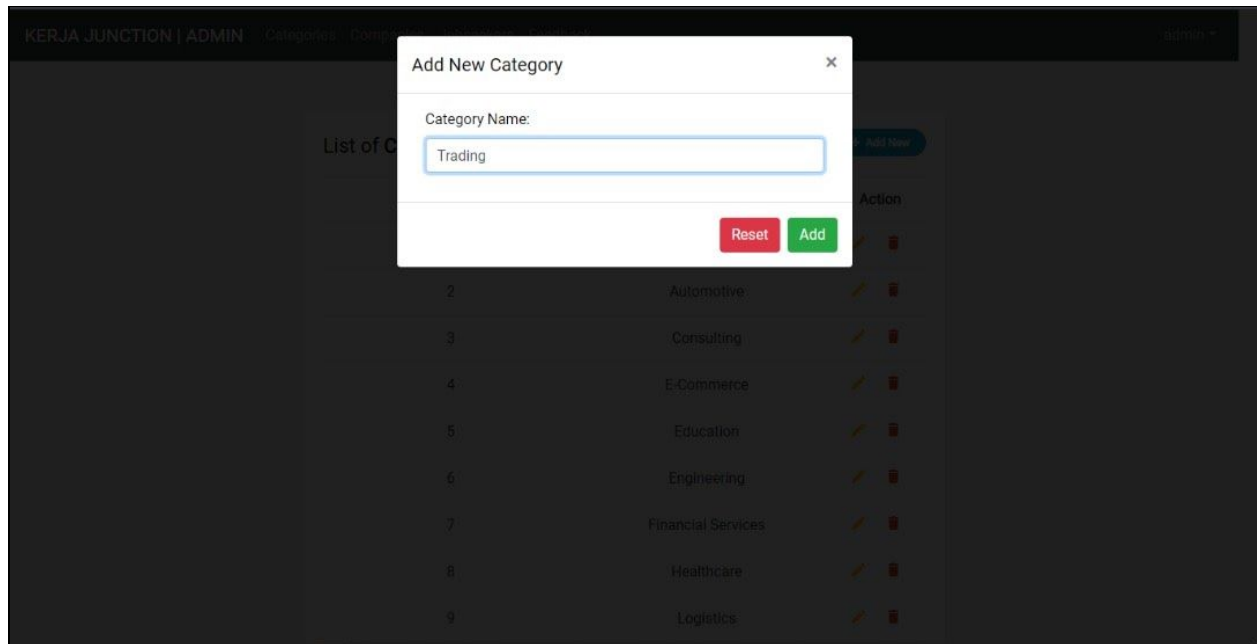


Figure 4 : Add New Category

Figure 4 shows a add new category popup. From figure 3 when you click the add new button you can add a new category name to add to the display interface in figure 3. Click the button add to add the category name and click reset to reset the category name when admin enter a category name.

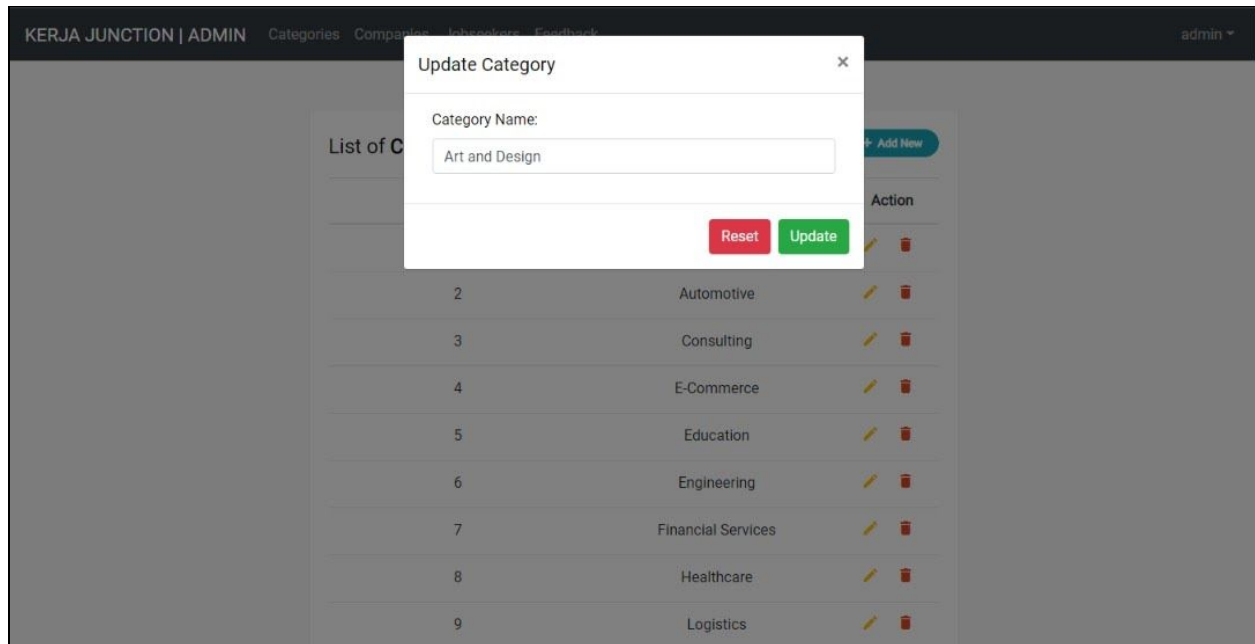


Figure 5 : Update Category

Figure 5 shows an update Category popup. From the action section in figure 3 you can update the category using the edit button. When you click it will display the popup and if admin want to edit the existing category name, admin can edit it. Admin enter the category name then click update if admin to update and reset if admin what to change the category name.

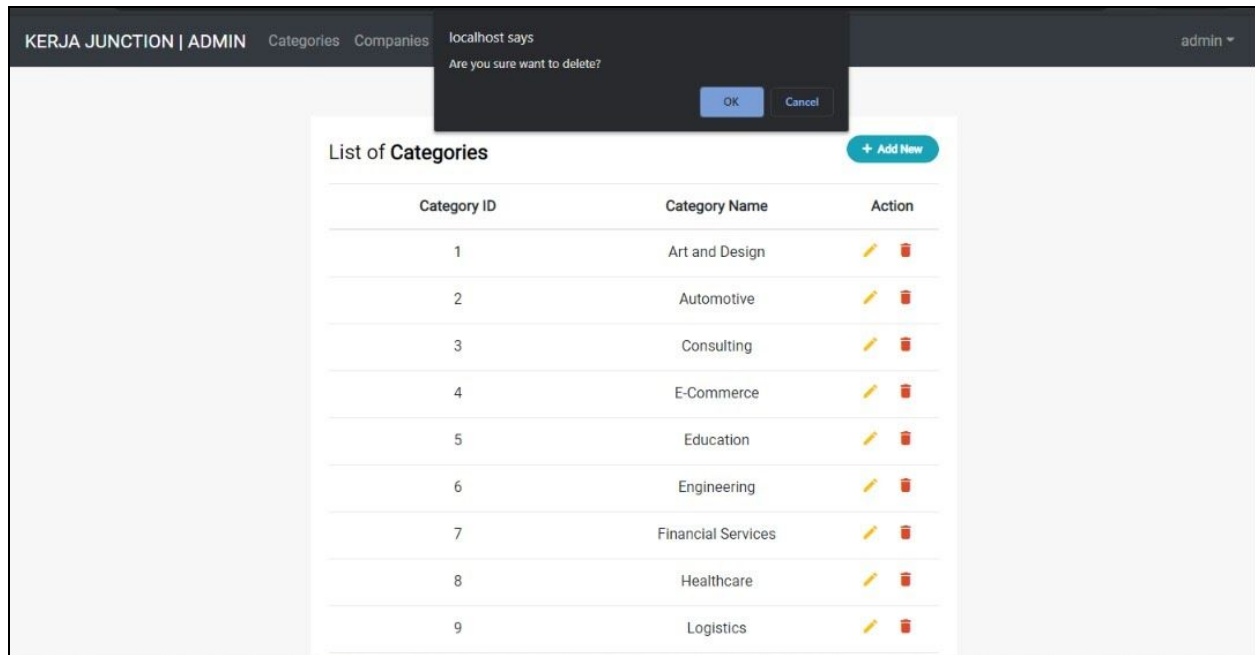


Figure 6 : List of Category (Delete)

Figure 6 shows the popup to delete the existing categories. If you want to delete the existing categories in the figure 3 using the section action and click the delete button and message will popup to delete the category.

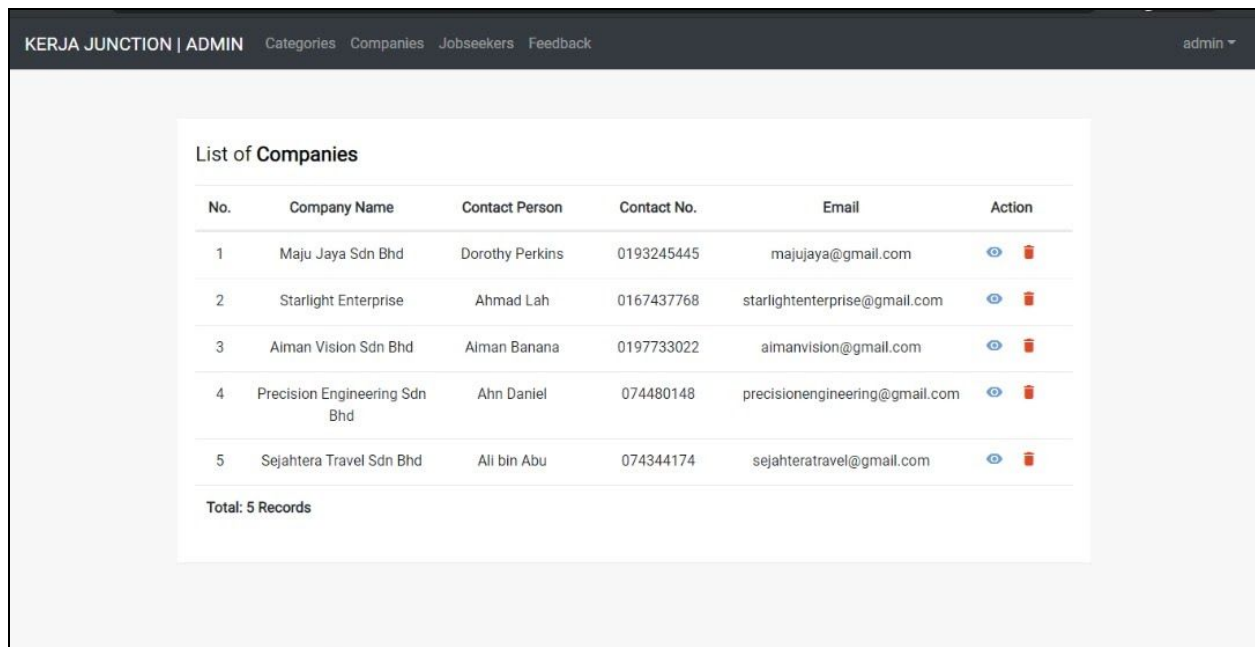


Figure 7 : List of Companies

Figure 7 shows the list of companies interfaces. It displays the company name, contact person, contact no, email and the action button section.

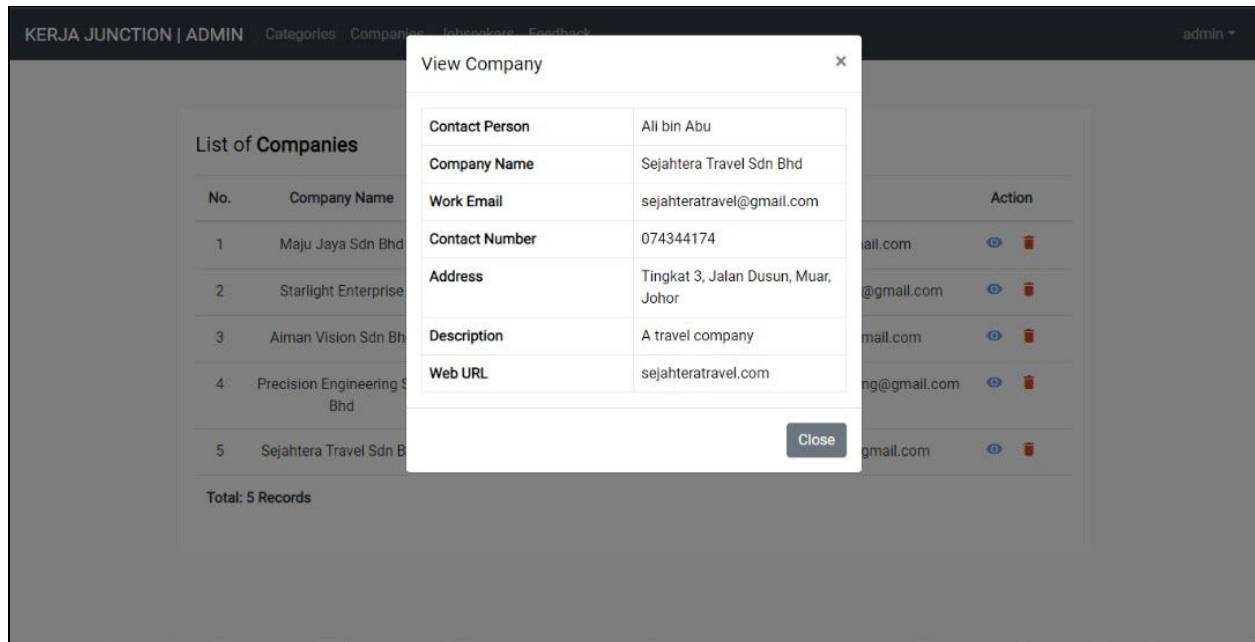


Figure 8 : List of Companies (View Company)

Figure 8 shows a view of company details popup. From the action section when the admin click the view button it will display a popup view of company details.

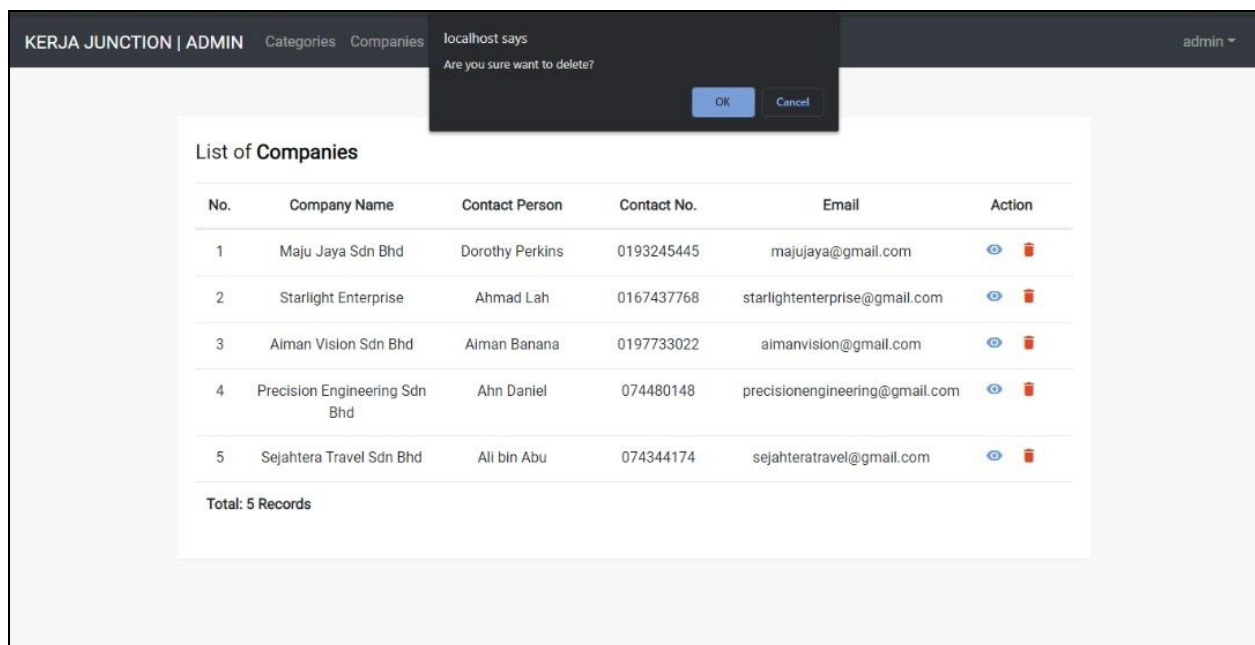


Figure 9 : List of Companies (Delete)

Figure 9 shows the list of company delete popup. If the admin wants to delete the existing data then click the delete button at the action button section to delete the existing company.

KERJA JUNCTION | ADMIN

Categories

Companies

Jobseekers

Feedback

admin ▾

List of Jobseekers













No.	Name	Contact No.	Email	Highest Qualification	Action
1	Lisa Surihana binti Ali	0195784450	lisasurihana@gmail.com	Degree	 
2	Taufik bin Ahmad	0167463302	taufikahmad@gmail.com	Diploma	 
3	Ariana Grandeu	0167468880	arianagrandeu@gmail.com	Master	 
4	Aiden Lee	0187773454	aidenlee@gmail.com	Degree	 
5	Fiqrah binti Ahmad	0174451234	fiqrahahmad@gmail.com	PHD	 
6	Ibrahim bin Khalid	0195747702	ibrahimkhalid@gmail.com	Degree	 
Total: 6 Records					

Figure 10 : List of Jobseekers

Figure 10 shows the list of jobseekers interface. It displays the name , contact no, email, highest qualification and the action button section.

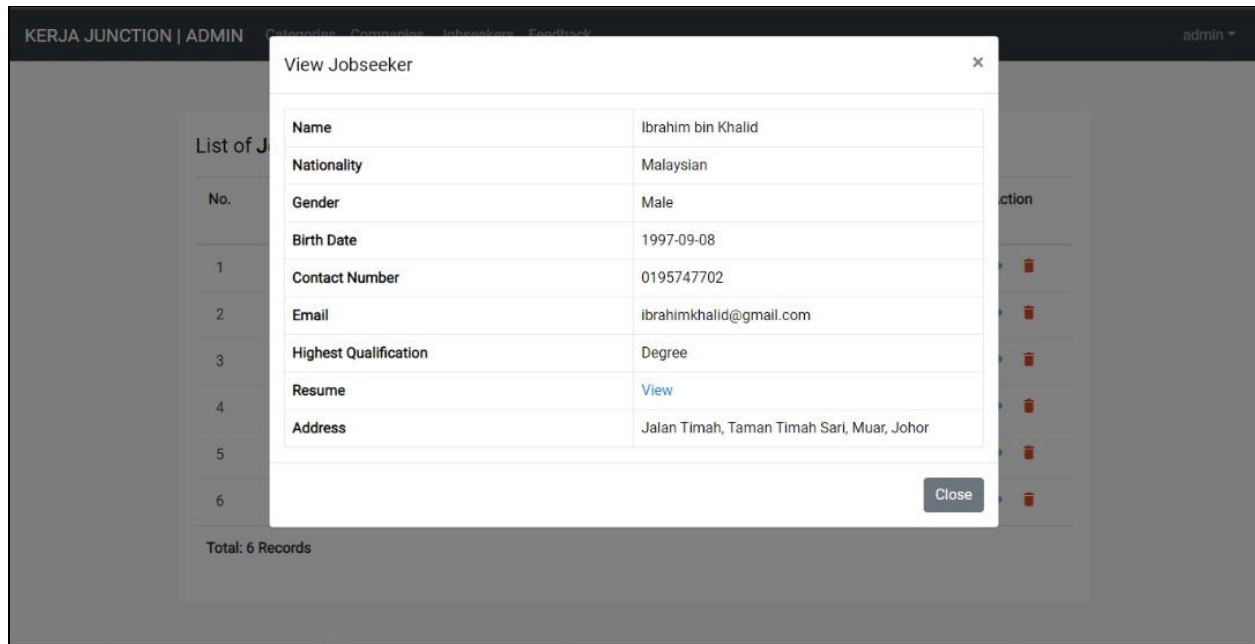


Figure 11 : List of Jobseekers (View Jobseeker)

Figure 11 shows a view jobseekers details popup. It displays the jobseeker details when the admin clicks the view button at the action section button in figure 10. Admin also can view the resume sent by the applicant at view jobseeker popup.

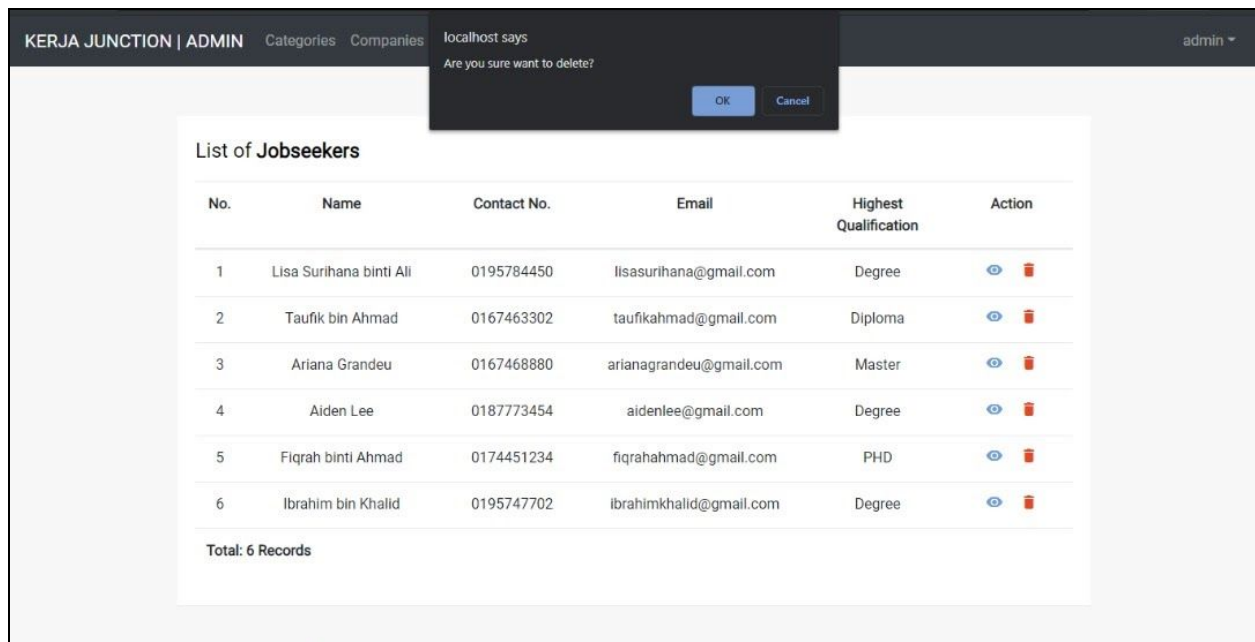


Figure 12 : List of Jobseekers (Delete)

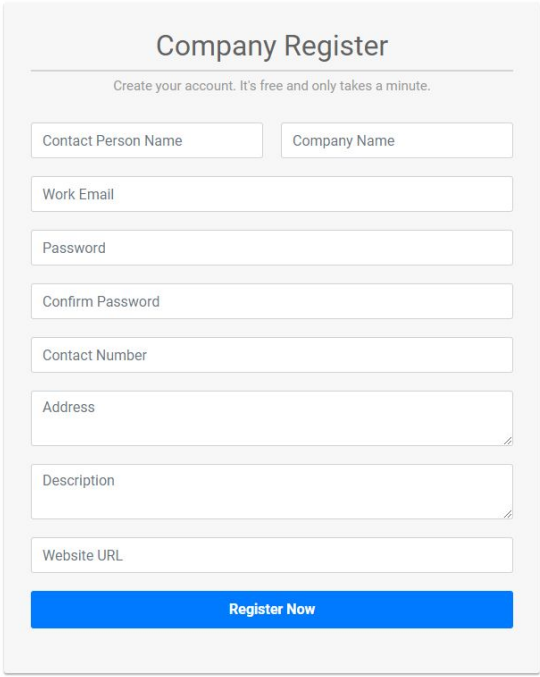
Figure 12 shows the list of jobseekers delete popup. If the admin wants to delete the existing data then click the delete button at the action section to delete the existing jobseekers.

KERJA JUNCTION ADMIN																			
Categories	Companies	Jobseekers	Feedback																
admin																			
<div> Feedbacks </div> <table> <tr> <th>No.</th><th>Name</th><th>Feedback</th><th>Date</th></tr> <tr> <td>1</td><td>Taufik bin Ahmad</td><td>Overall very pleased.</td><td>2021-01-24</td></tr> <tr> <td>2</td><td>Ibrahim bin Khalid</td><td>Improve more on search job section.</td><td>2021-01-26</td></tr> <tr> <td colspan="4">Total: 2 Records</td></tr> </table>				No.	Name	Feedback	Date	1	Taufik bin Ahmad	Overall very pleased.	2021-01-24	2	Ibrahim bin Khalid	Improve more on search job section.	2021-01-26	Total: 2 Records			
No.	Name	Feedback	Date																
1	Taufik bin Ahmad	Overall very pleased.	2021-01-24																
2	Ibrahim bin Khalid	Improve more on search job section.	2021-01-26																
Total: 2 Records																			

Figure 13 : Feedbacks

Figure 13 shows the feedback interface. It displays the name, feedback and date of feedback by jobseekers.

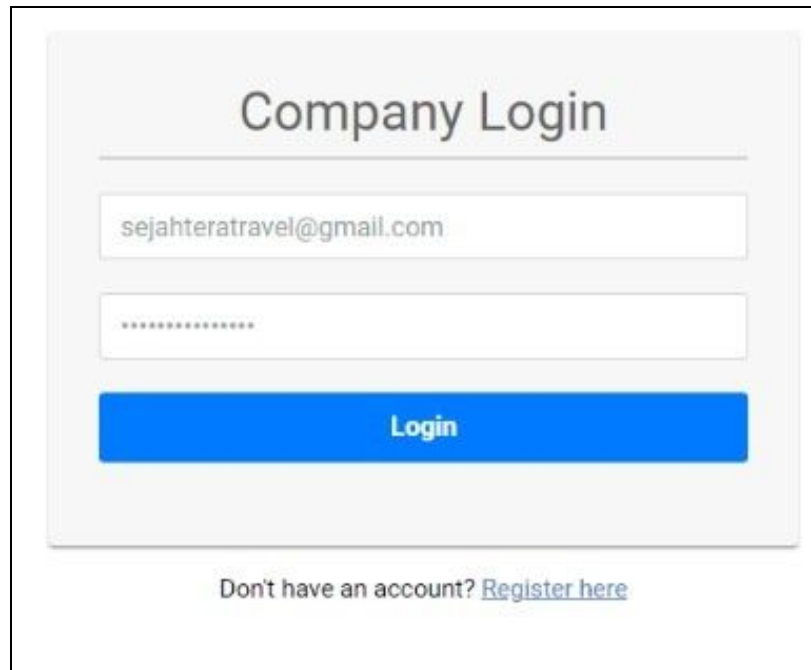
2.0 Employer



The image shows a web form titled "Company Register". Below the title is a subtitle: "Create your account. It's free and only takes a minute." The form contains several input fields: "Contact Person Name", "Company Name", "Work Email", "Password", "Confirm Password", "Contact Number", "Address", "Description", and "Website URL". A blue button labeled "Register Now" is positioned below the "Website URL" field. At the bottom of the form, there is a link that says "Already have an account? [Login](#)".

Figure 14 : Company Register

Figure 14 shows the interface for the company registration. By clicking the 'Register here' on the company login page, it will redirect the user to this interface. The registration page allows the company to fill in the contact person name, company name, work email, password, contact number, address, description and the company website url. After all the needed data has been entered, users can click on the 'Register Now' button to register the company into the job application system.

The image shows a web form titled "Company Login". It features two input fields: the first contains the email address "sejahteratravel@gmail.com" and the second is a password field with masked characters. Below these fields is a prominent blue button labeled "Login". At the bottom of the form, there is a text link that reads "Don't have an account? [Register here](#)".

Company Login

sejahteratravel@gmail.com

Login

Don't have an account? [Register here](#)

Figure 15 : Company Login

Figure 15 shows the interface for company login. The login page allows the company employer to gain access to the system by entering the company email and password.

The screenshot displays the 'Post a Job' form within the 'KERJA JUNCTION | EMPLOYER' application. The top navigation bar includes 'Post Job' and 'List of Jobs' links, and a user profile for 'Sejahtera Travel Sdn Bhd'. The form itself is titled 'Post a Job' and contains the following fields:

- Job Title:** A text input field containing 'Tour Guide'.
- Category:** A dropdown menu with 'Travel and Tourism' selected.
- Salary (RM):** A text input field containing '1500.00'.
- Qualification:** A text area containing 'Diploma'.
- Work Experience:** A text area containing 'Fluent in English and 1 year experience in touring'.
- Preferred Gender:** A dropdown menu with 'Male' selected.
- Job Description:** A text area containing 'Potential tour guides should be fit and healthy with lots of energy and confidence.'

At the bottom of the form, there are two buttons: 'Add' and 'Reset'.

Figure 16 : Post A Job

Figure 16 shows the Post a Job interface. This page allows the company to advertise a job into the job application system. The information needed in this part are the job title, category, salary, qualification, work experience, preferred gender and job description. Users can click the Add button to advertise the job on the system and to reset all the data entered in the text field, users can click the Reset button.

The screenshot shows a web interface for an employer. At the top, there is a dark header bar with the text "KERJA JUNCTION | EMPLOYER" on the left, and "Post Job" and "List of Jobs" in the center. On the right side of the header, there is a blue bell icon and the text "Sejahtera Travel Sdn Bhd". Below the header, the main content area is light gray. In the center, there is a white box titled "Company Profile". Inside this box, there are several input fields with labels to their left: "Company Name:" with the value "Sejahtera Travel Sdn Bhd", "Contact Person:" with "Ali bin Abu", "Address:" with "Tingkat 3, Jalan Dusun, Muar, Johor", "Work Email:" with "sejahteratravel@gmail.com", "Contact No:" with "074344174", "Description:" with "A travel company", and "Website:" with "sejahteratravel.com". At the bottom of the white box, there is a green button labeled "Edit".

Field	Value
Company Name	Sejahtera Travel Sdn Bhd
Contact Person	Ali bin Abu
Address	Tingkat 3, Jalan Dusun, Muar, Johor
Work Email	sejahteratravel@gmail.com
Contact No	074344174
Description	A travel company
Website	sejahteratravel.com

Figure 17 : Company Profile

Figure 17 shows the Company Profile. In this page, it displayed the company information. Users can click the Edit button to update the company profile.

KERJA JUNCTION | EMPLOYER Post Job List of Jobs Sejahtera Travel Sdn Bhd

Update Profile

Company Name:
Sejahtera Travel Sdn Bhd

Contact Person:
Ali bin Abu

Address:
Tingkat 3, Jalan Dusun, Muar, Johor

Work Email:
sejahteratravel@gmail.com

Contact No.:
074344174

Description:
A travel company

Website:
sejahteratravel.com

Save Changes

Figure 18 : Update Profile

KERJA JUNCTION | EMPLOYER Post Job List of Jobs localhost says Data updated. OK Sejahtera Travel Sdn Bhd

Update Profile

Company Name:
Sejahtera Travel Sdn Bhd

Contact Person:
Ali bin Abu

Address:
Tingkat 3, Jalan Dusun, Muar, Johor

Work Email:
sejahteratravel@gmail.com

Contact No.:
074344174

Description:
A travel company

Website:
sejahteratravel.com

Save Changes


Figure 19 : Update Profile

After users click the Edit button at the company profile page as shown in figure 18, it will redirect the users to the update profile page shown in the figure 19. This page allows the users to update the information of the company. After changes have been made, users will have to click the Save Changes button to save the information entered before.

KERJA JUNCTION | EMPLOYER

Post Job

List of Jobs

 Sejahtera Travel Sdn Bhd

List of Posted Jobs



ID	Job Title	Category	Salary (RM)	Qualification	Experience	Preferred Gender	Description	Date Posted	Actions
4	Tour Guide	Travel and Tourism	1,500.00	Diploma	Fluent in English and 1 year experience in touring	Male	Potential tour guides should be fit and healthy with lots of energy and confidence.	2021-01-26 20:29:05	 
Total: 1 Records									

Figure 20 : List of Posted Jobs

Figure 20 shows the List of Posted Jobs page. In this page, it will display the jobs advertised by the company.

KERJA JUNCTION | EMPLOYER Post Job List of Jobs

Sejahtera Travel Sdn Bhd

Update Vacancy

Job Title:
Tour Guide

Category:
Travel and Tourism

Salary (RM):
1,500.00

Qualification:
Diploma

Work Experience:
Fluent in English and 1 year experience in touring

Preferred Gender:
Male

Job Description:
Potential tour guides should be fit and healthy with lots of energy and confidence.

Reset Update

List of Posted Jobs

ID	Job Title	Category
4	Tour Guide	Travel and Tourism

Total: 1 Records

Actions

Figure 21 : List of Posted Jobs (Update Vacancy)

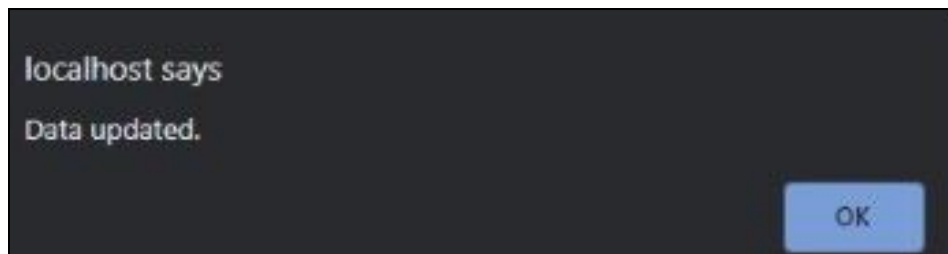


Figure 22 : List of Posted Jobs (Delete)

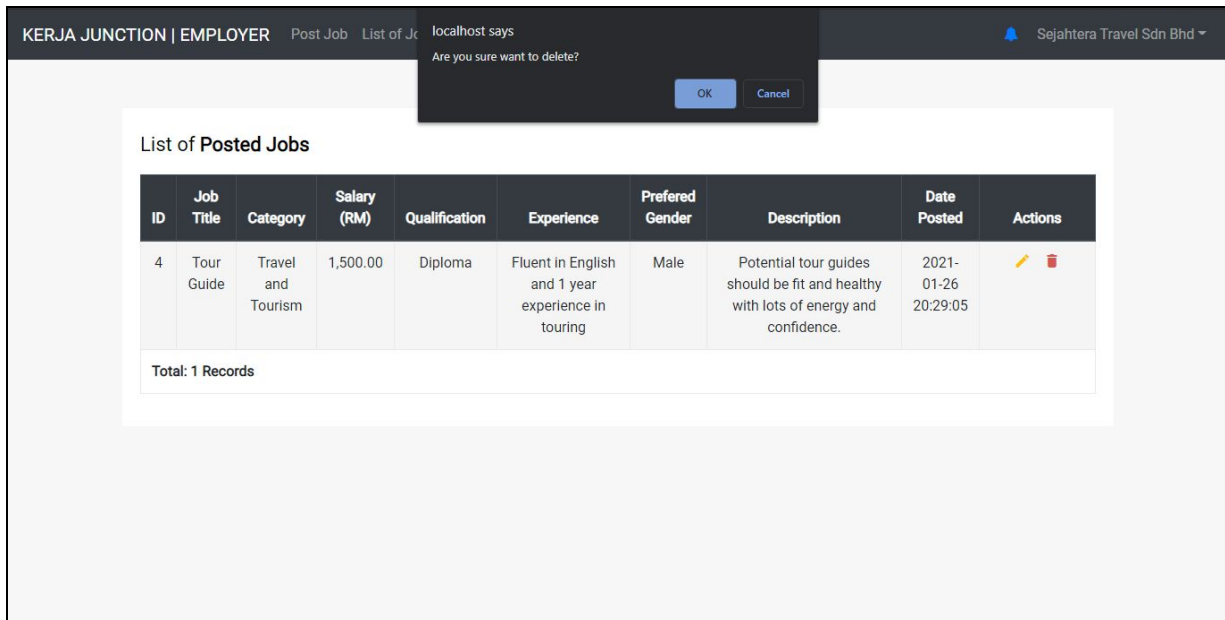


Figure 23 : List of Posted Jobs (Delete)

In the List of Posted Jobs, the company can take action whether to update the vacancy or to delete the job advertised. If the action taken is to update the vacancy, a form will pop-up and the company can make an update about the details as shown in figure 22. After clicking on the update button, the data will be updated and it will notify the company using an alert box as shown in figure 21. While, if the company wishes to delete the job advertised, an alert box will pop-up on the screen to make a confirmation about the deletion process as shown in figure 23.

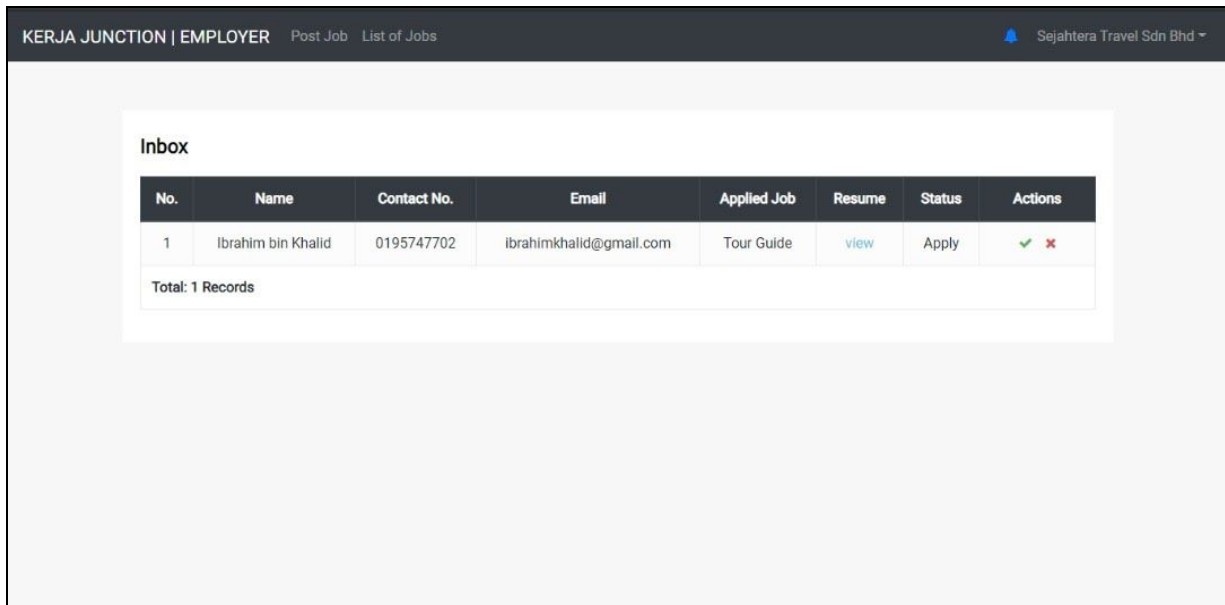


Figure 24 : Inbox

In figure 24, it will display the name of the applicant that applied for the job advertised by the company.

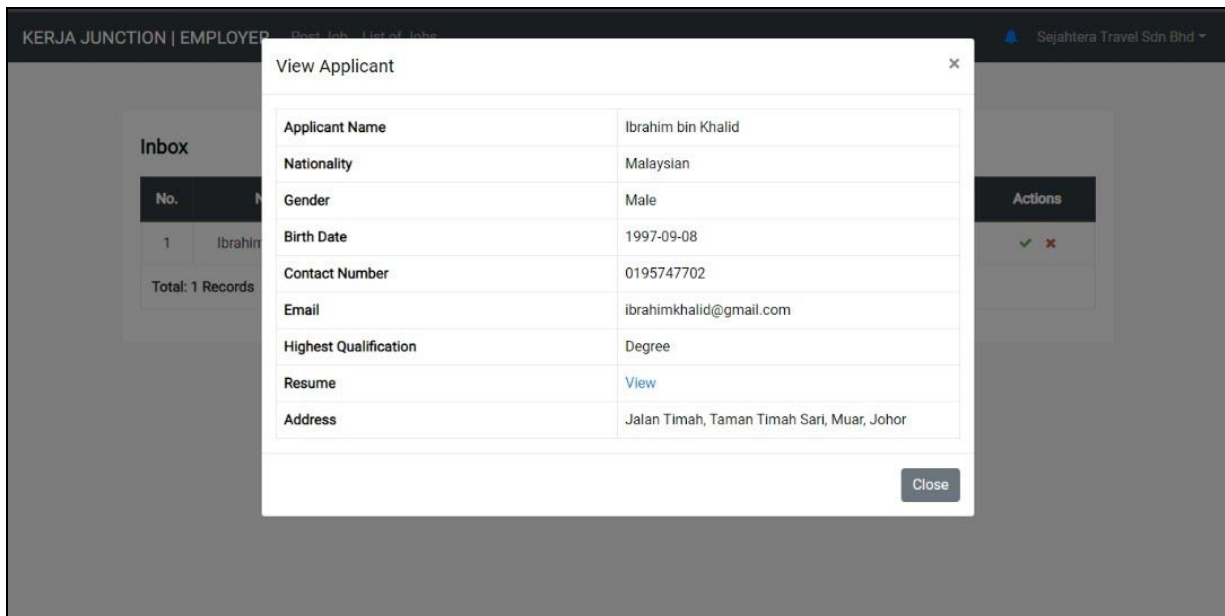


Figure 25 : Inbox (View Applicant)

The company can view the applicant details as shown in the figure 25.

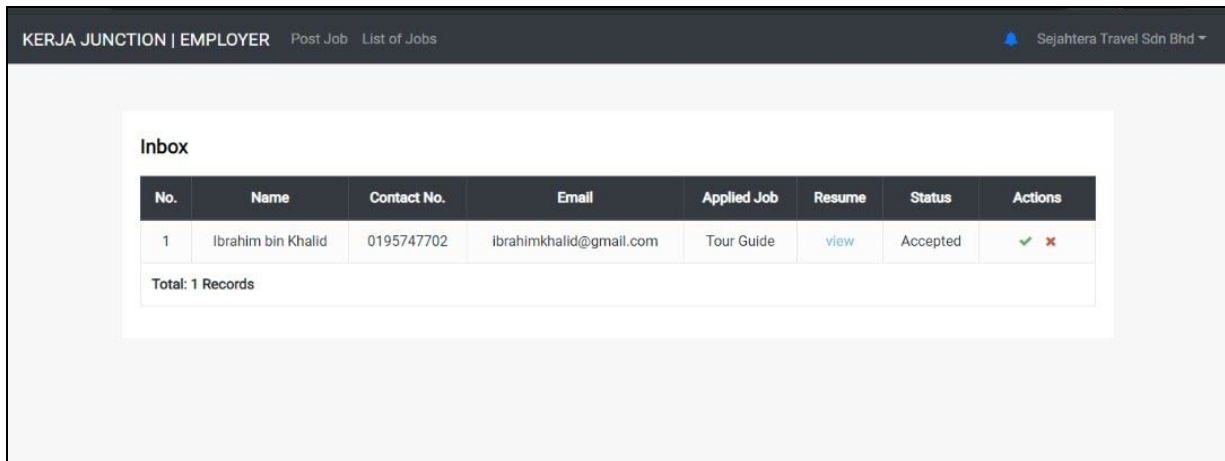


Figure 26 :Inbox (Accept Applicant)

The company can take action whether to accept or to reject the applicant that applied to the job advertised by the company. If the company accepts the applicant, it will change the status to 'Accepted' as shown in figure 26.

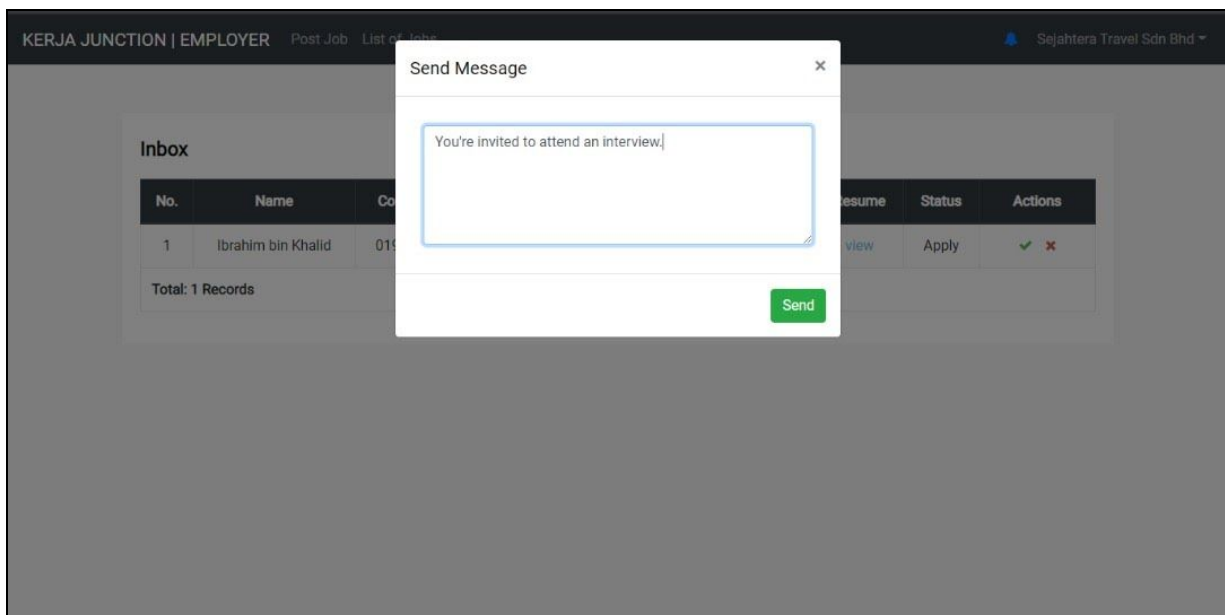


Figure 27 : Inbox (Send Message)

After accepting the applicant, the company can send a message to the applicant to notify them about the result as shown in figure 27.

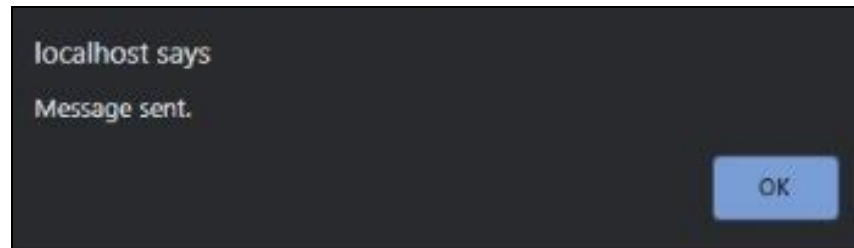


Figure 28 : Inbox (Message Send)

Figure 28 shows an alert box that will pop-up if the message is successfully sent to the applicant inbox.

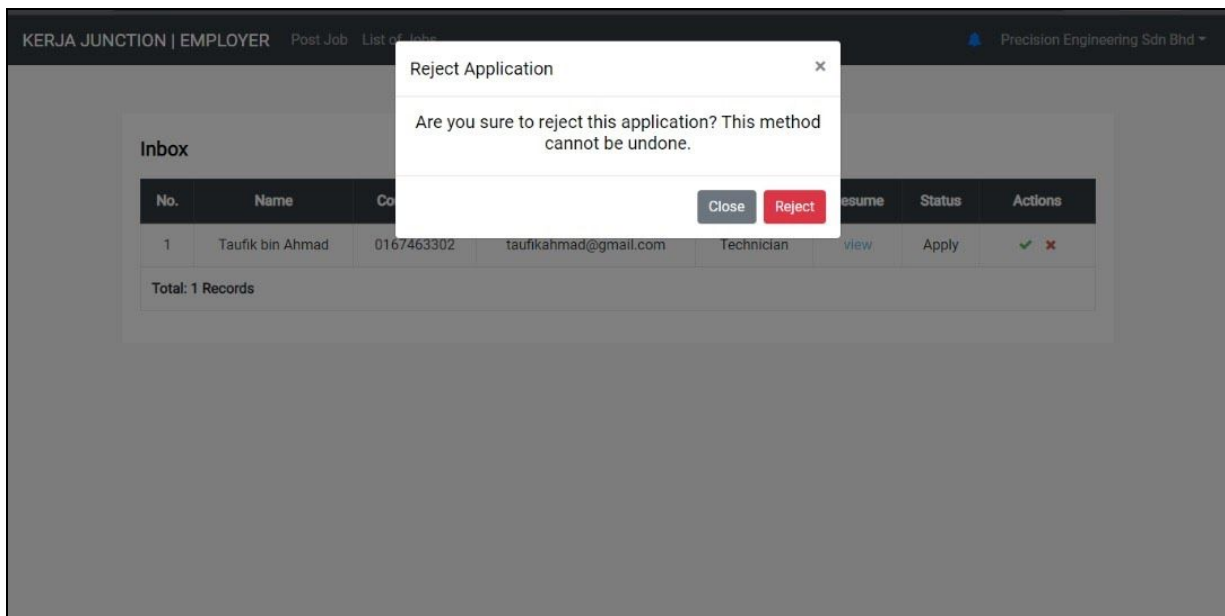


Figure 29 : Inbox (Reject Applicant)

Figure 29 shows an alert box that will pop-up on the screen if the company chooses to reject the applicant that applies to the job advertised by the company. After rejecting the applicant, the status will change to 'Rejected'.

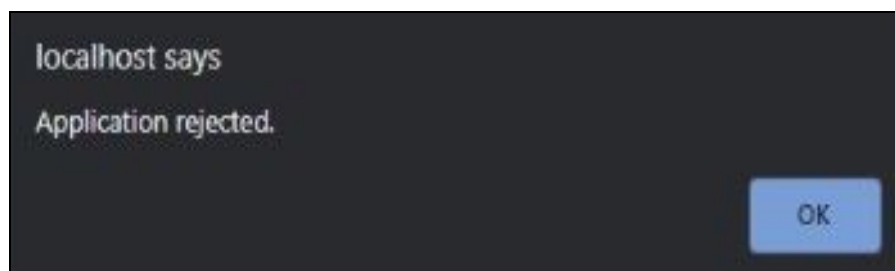
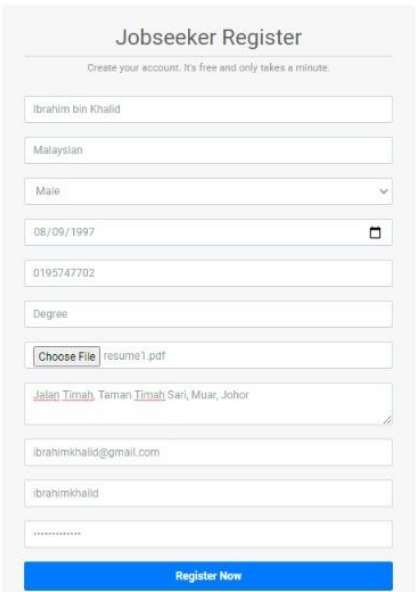


Figure 30 : Inbox (Applicant Rejected)

Figure 30 above shows that an alert message pop-up that notified the application of the applicant has been successfully rejected.

3.0 Jobseeker



The image shows a web form titled "Jobseeker Register" with a subtitle "Create your account. It's free and only takes a minute." The form contains the following fields: a text input for "Ibrahim bin Khalid", a text input for "Malaysia", a dropdown menu for "Male", a date input for "08/09/1997", a text input for "0195747702", a text input for "Degree", a file upload section with a "Choose File" button and the filename "resume1.pdf", a text input for the address "Jalan Timah, Taman Timah, Sari, Muar, Johor", a text input for the email "ibrahimkhalid@gmail.com", a text input for the username "ibrahimkhalid", and a password input field with masked characters. A blue "Register Now" button is at the bottom.

Figure 31 : Jobseeker Registration

Figure 31 shows the interface for jobseeker registration. By clicking the 'Register here' on the jobseeker login page, it will redirect the user to this interface. The registration page allows jobseekers to fill in the name, nationality , gender, birthdate, contact number, highest qualification, resume file, address, email, username and password. After all the needed data has been entered, users can click on the 'Register Now' button to register themselves into the job application system.

The image shows a 'Jobseeker Login' form. It has a title 'Jobseeker Login' at the top. Below the title are two input fields: one for email (containing 'ibrahimkhalid@gmail.com') and one for password (containing '*****'). A blue 'Login' button is positioned below the password field. At the bottom of the form, there is a link that says 'Don't have an account? [Register here](#)'.

Figure 32 : Jobseeker Login

Figure 32 shows the interface for jobseeker login. The login page allows the jobseeker to gain access to the system by entering their email and password.

The image shows the 'Jobseeker Menu' interface. At the top, there is a dark navigation bar with the text 'KERJA JUNCTION | JOBSEEKER', 'Search Job', 'Feedback', and a user profile icon with the name 'ibrahimkhalid'. Below the navigation bar, there is a 'Search Job' section with three input fields: 'Search Job Title', 'Select Category' (a dropdown menu), and 'Select Qualification' (a dropdown menu). A green 'Search' button is located below these fields. Below the search section, there is a 'Search Results' section containing a table with job details.

Company Name	Sejahtera Travel Sdn Bhd
Job Title	Tour Guide
Category	Travel and Tourism
Salary (RM)	1,500.00
Preferred Gender	Male
Qualification	Diploma
Experience	Fluent in English and 1 year experience in touring
Description	Potential tour guides should be fit and healthy with lots of energy and confidence.
	Apply For Job

Figure 33 : Jobseeker Menu

Figure 33 shows the Menu tab and jobseeker name in the top bar of the interface page which have Search Job tab, Inbox tab, Jobseeker Name.

KERJA JUNCTION | JOBSEEKER
Search Job
Feedback
ibrahimkhalid

Search Job

Select Category
Select Qualification

Search

Search Results

Company Name	Sejahtera Travel Sdn Bhd
Job Title	Tour Guide
Category	Travel and Tourism
Salary (RM)	1,500.00
Preferred Gender	Male
Qualification	Diploma
Experience	Fluent in English and 1 year experience in touring
Description	Potential tour guides should be fit and healthy with lots of energy and confidence.
	Apply For Job

Figure 34 : Search Job

Figure 34 shows the interface of Jobseeker search job. In this page, jobseekers can search their desired job by choosing the job categories and the qualification. If the job search existed, a list of jobs will show up on the same page. If there is no desired job existed, it will show no records found.

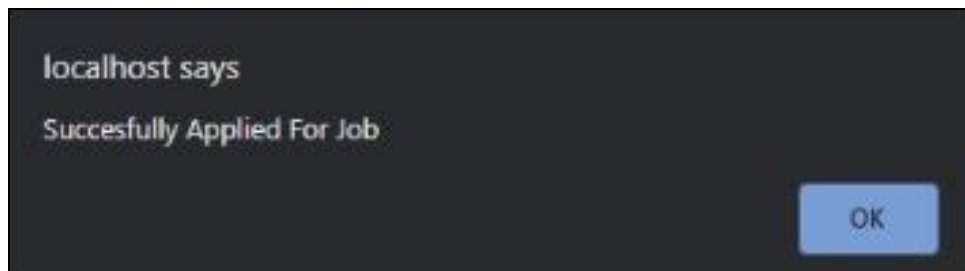


Figure 35 : Apply For Job

Figure 35 shows the interface on the job search page. After a jobseeker has searched their desired job and feels like applying for it, then they can click the apply for job link on the joblist show on the page. After clicking apply for a job, it will show a popup saying that the application is successful. If the user has ever applied for the job before, it will also show a popup saying that the user has ever applied for the job before.

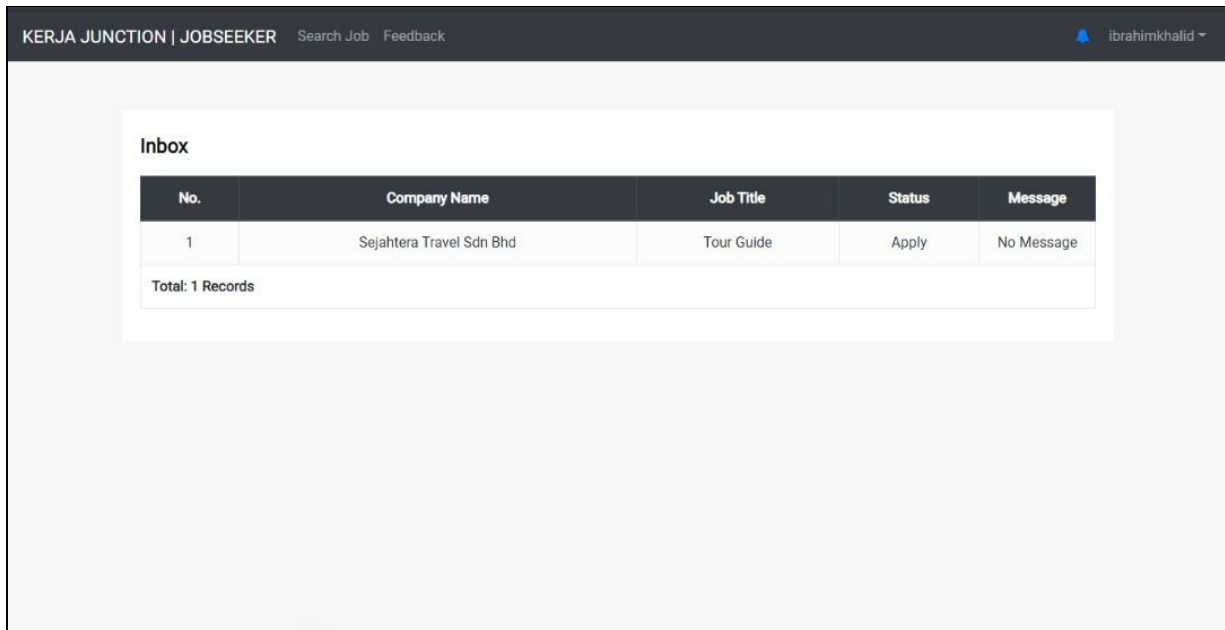


Figure 36 : Inbox (Status of job : apply)

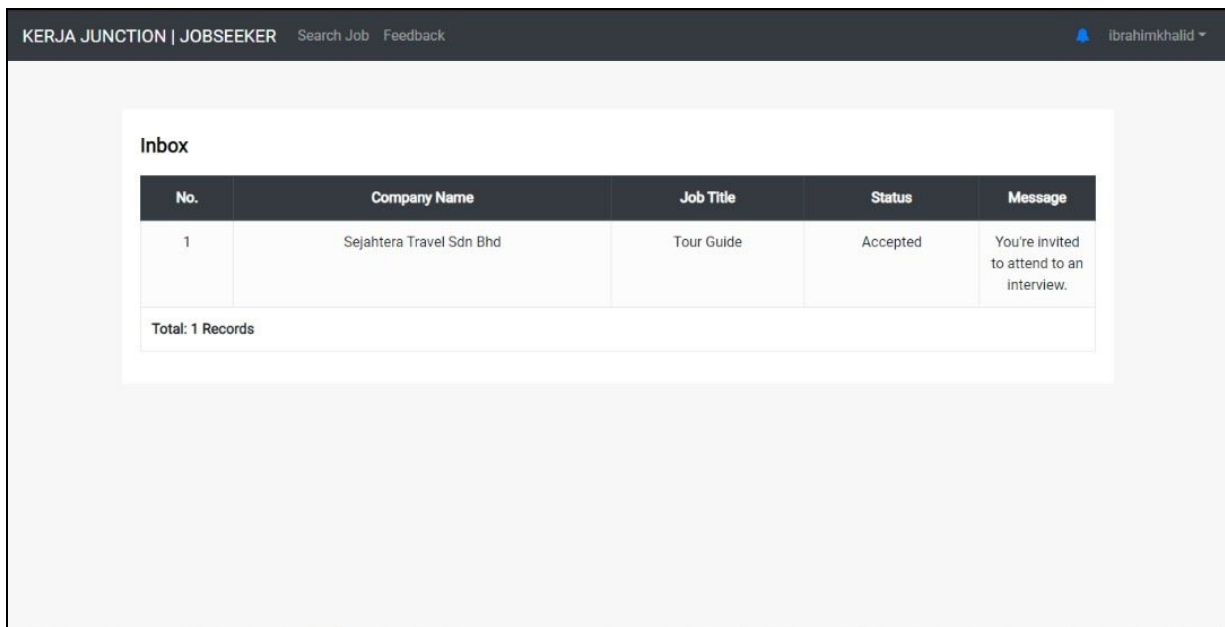


Figure 37 : Inbox (Status of job : accepted)

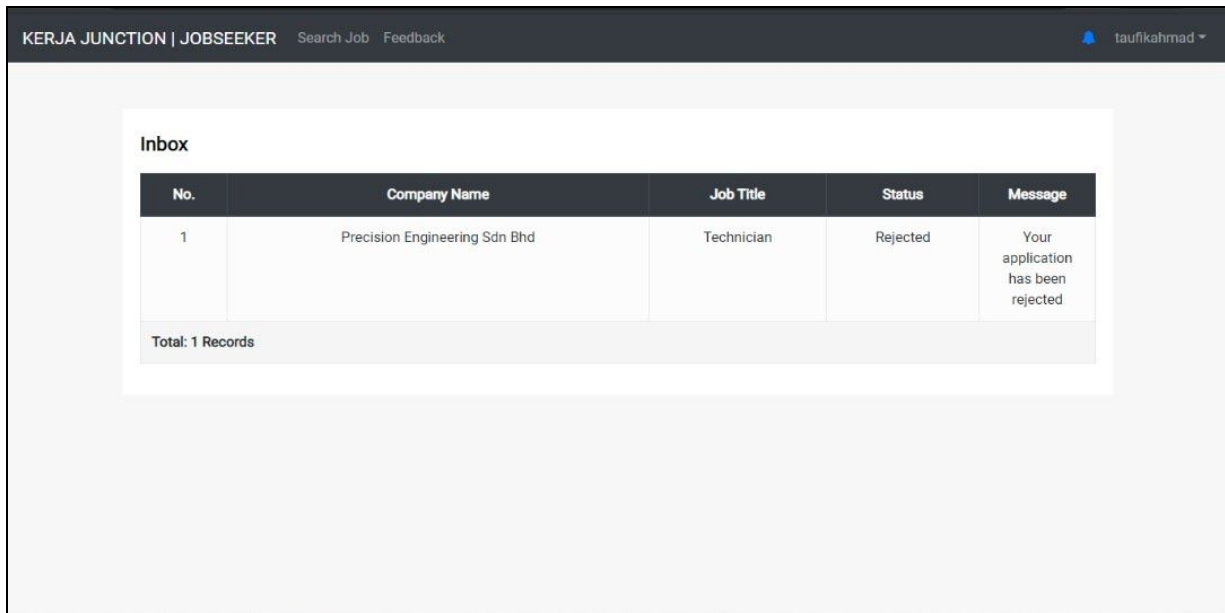



Figure 38 : Inbox (Status of job : rejected)

Figure 36, figure 37 and figure 38 shows the Inbox page of jobseeker. In order to get to this inbox page, users must click the bell button on the menu tab. This inbox page lists the details of the user applied job, status of the application and message from a particular company. The status and message of the application might be either Apply, Accepted or Rejected which this will be handled by the company itself. Users can track their status of application and important notice on their application here.

KERJA JUNCTION | JOBSEEKER Search Job Feedback  ibrahimkhalid ▾

Jobseeker Profile

Name:	Ibrahim bin Khalid
Nationality:	Malaysian
Gender:	Male
Birth Date:	1997-09-08
Contact Number:	0195747702
Email:	ibrahimkhalid@gmail.com
Highest Qualification:	Degree
Resume:	View
Address:	Jalan Timah, Taman Timah Sari, Muar, Johor

Figure 39 : Jobseeker Profile

Figure 39 shows Jobseeker Profile which the jobseeker itself can view the details of their profile and view their resume details. If the jobseeker clicks on the link 'View' it will open a new tab while showing the pdf of the user resume.

4.0 Business Rule

Business rule is a way to define entities, attributes, relationships and constraints. Business rules help to develop a relationship between two or more entities as well as constraints between each other. Business rules allow the developer to understand the business process and the nature of the scope of the data. Following are the business rules for the system.

1.



- An employer can advertise many jobs.
- Each job can be advertised by only one employer.

1:M relationship

2.



- An employer can review many job applications.
- Each job application can be reviewed by only one employer.

1:M relationship

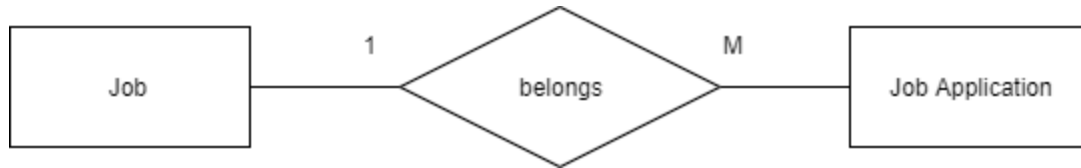
3.



- Each job can have one category.
- Each category can belong to many jobs.

1:M relationship

4.



- Each job belongs to many job applications.
- Each job application can only have one job.

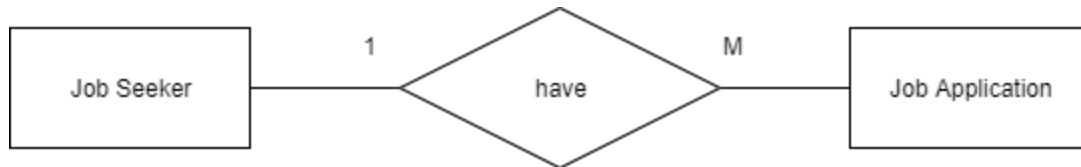
5.



- A job seeker can apply for many jobs.
- Each job can be applied by many job seekers.

M:M relationship

6.



- A job seeker can have many job applications.
- Each job application can belong to only one job seeker.

1:M relationship

7.



- A job seeker can give many feedbacks.
- Each feedback can be given by only one job seeker.

1:M relationship

8.



- An admin can manage many categories.
- Each category can be managed by only one admin.

1:M relationship

9.



- An admin can manage many employers.
- Each employer can be managed by only one admin.

1:M relationship

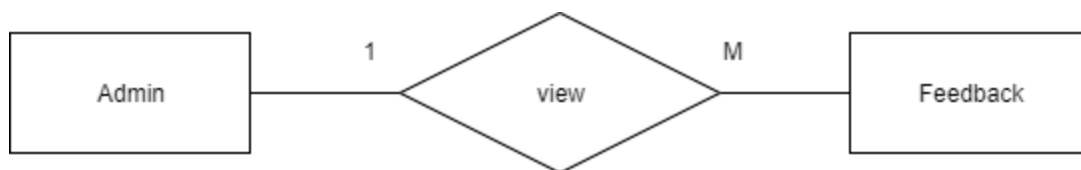
10.



- An admin can manage many job seekers.
- Each job seeker can be managed by only one admin.

1:M relationship

11.



- An admin can view many feedbacks.
- Each feedback can be viewed by only one admin.

1:M relationship

5.0 Entity Relationship Diagram (ERD)

Figure 39 shows the entity relationship diagram (ERD) of the system.

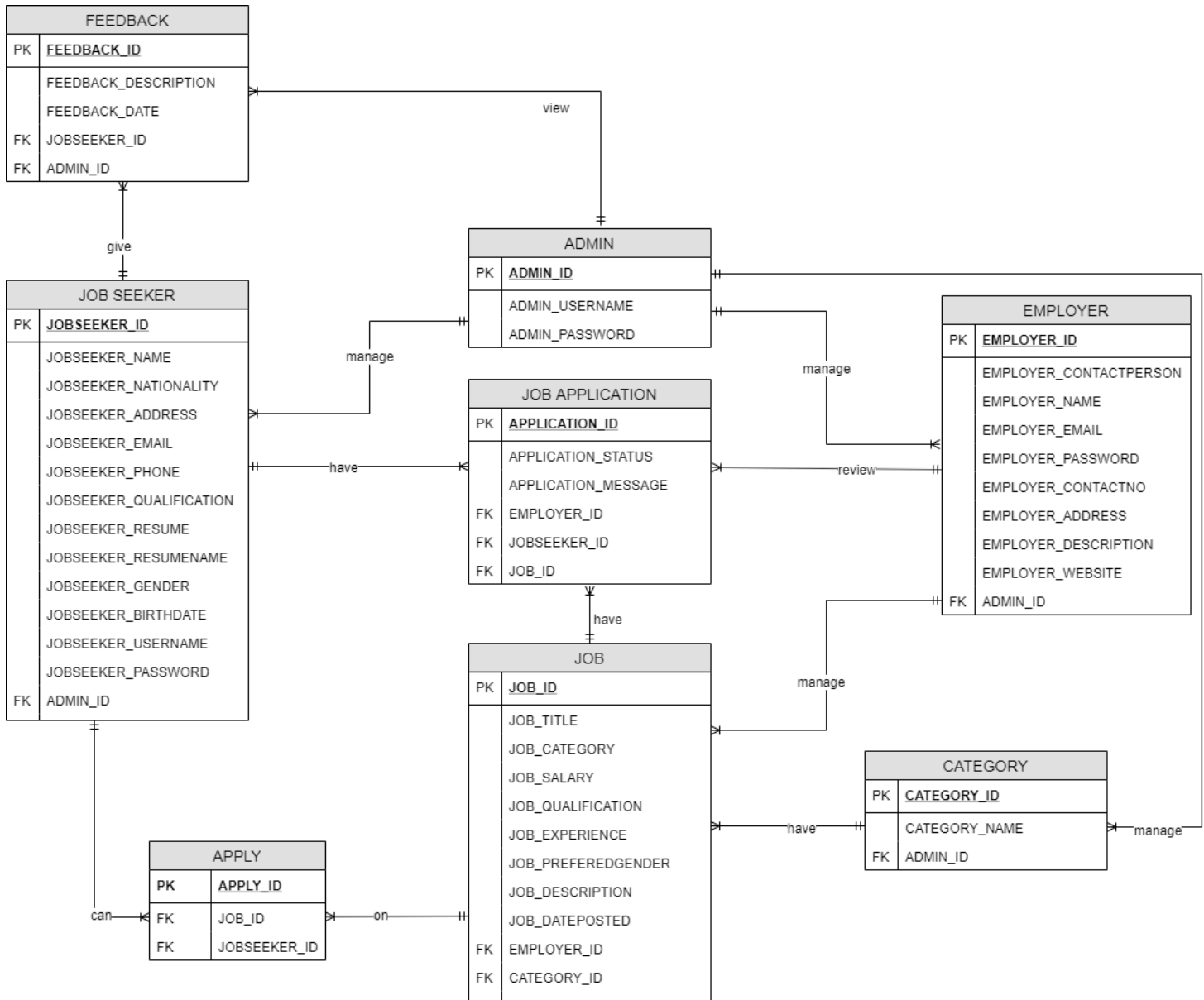


Figure 40 : Entity Relationship Diagram (ERD)

6.0 Insert, Update Delete and Search Scripting

```
$sql = "INSERT INTO job (job_ID, employer_Name, job_Title,  
job_Category, job_Salary, job_Qualification, job_Experience,  
job_PreferredGender, job_Description) values ('$ID', '$  
CompanyName', '$Title', '$Category', '$Salary', '$Qualification',  
'$WorkExperience', '$PreferredGender', '$Description')";
```

Figure 41 : Example of INSERT Statement

```
$sql = "UPDATE job SET job_Title='$Title', job_Category='$  
Category', job_Salary='$Salary', job_Qualification='$  
Qualification', job_Experience='$WorkExperience',  
job_PreferredGender='$PreferredGender', job_Description='$  
Description' WHERE job_ID = '$JobID' ";
```

Figure 42 : Example of UPDATE Statement

```
$sql = "DELETE FROM job where job_ID='$deleteID'";
```

Figure 43 : Example of DELETE Statement

```
$ConditionArray = array();  
if ($datasearch != '') $ConditionArray[] = "(job_Title LIKE '%$  
datasearch%')";  
if ($category != '') $ConditionArray[] = "(job_Category = '$category'  
OR '$category' = '')";  
if ($qualification != '') $ConditionArray[] = "(job_Qualification = '$  
qualification' OR '$qualification' = '')";  
  
if (count($ConditionArray) > 0)  
{  
    $sql = "  
    SELECT *  
    FROM job  
    WHERE ".implode(' AND ', $ConditionArray);  
}
```

Figure 44 : Example of SELECT Statement for Searching

7.0 References

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3. CRUD Operation using PHP/MySQLi with Bootstrap Tutorial. (December 16, 2020). Retrieved December 15, 2020, from <https://www.sourcecodester.com/php/11629/phpmysqli-crud-operation-bootstrapmodal.html>