OBJECT ORIENTED PROGRAMMING WITH C#

JOB BANK APPLICATION

Content of the report

:

- Introduction to the selected scenario.

- ER diagram, Class diagram, Use case diagram.

- Samples of the developed system (Screenshots with small explanation).

- Test Plan.

- Workload matrix of group members.

Introduction to the selected scenario

Al Bhardeen (PVT) LTD is a manpower recruitment agency in Sri Lanka.

Problem :

Their existing system is a manual system. It is hard for the admins to track all the applications at once.
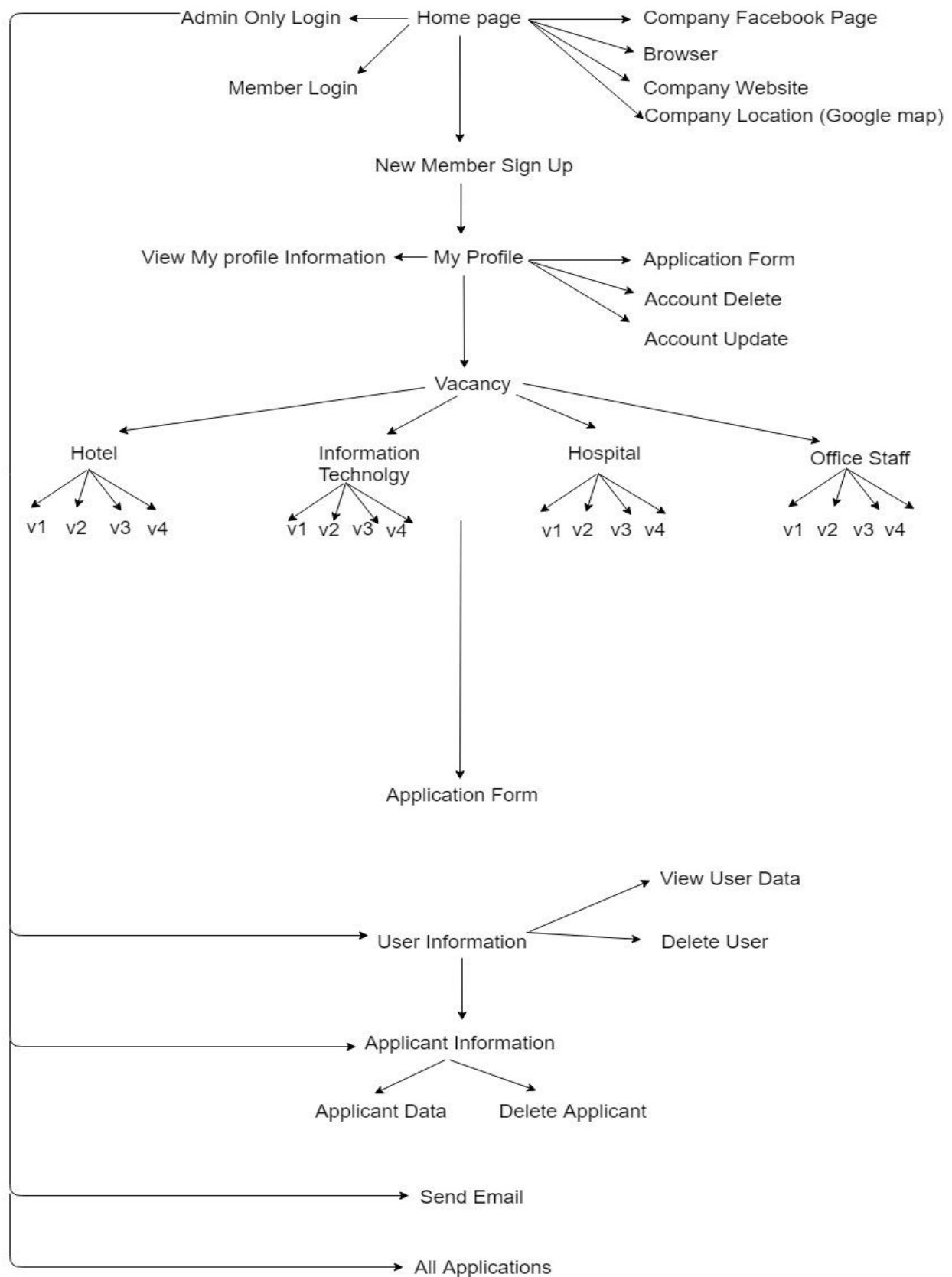
Solution :

The proposed system we developed is able to track all applicants and their applications at once and delete unnecessary users and applicants.
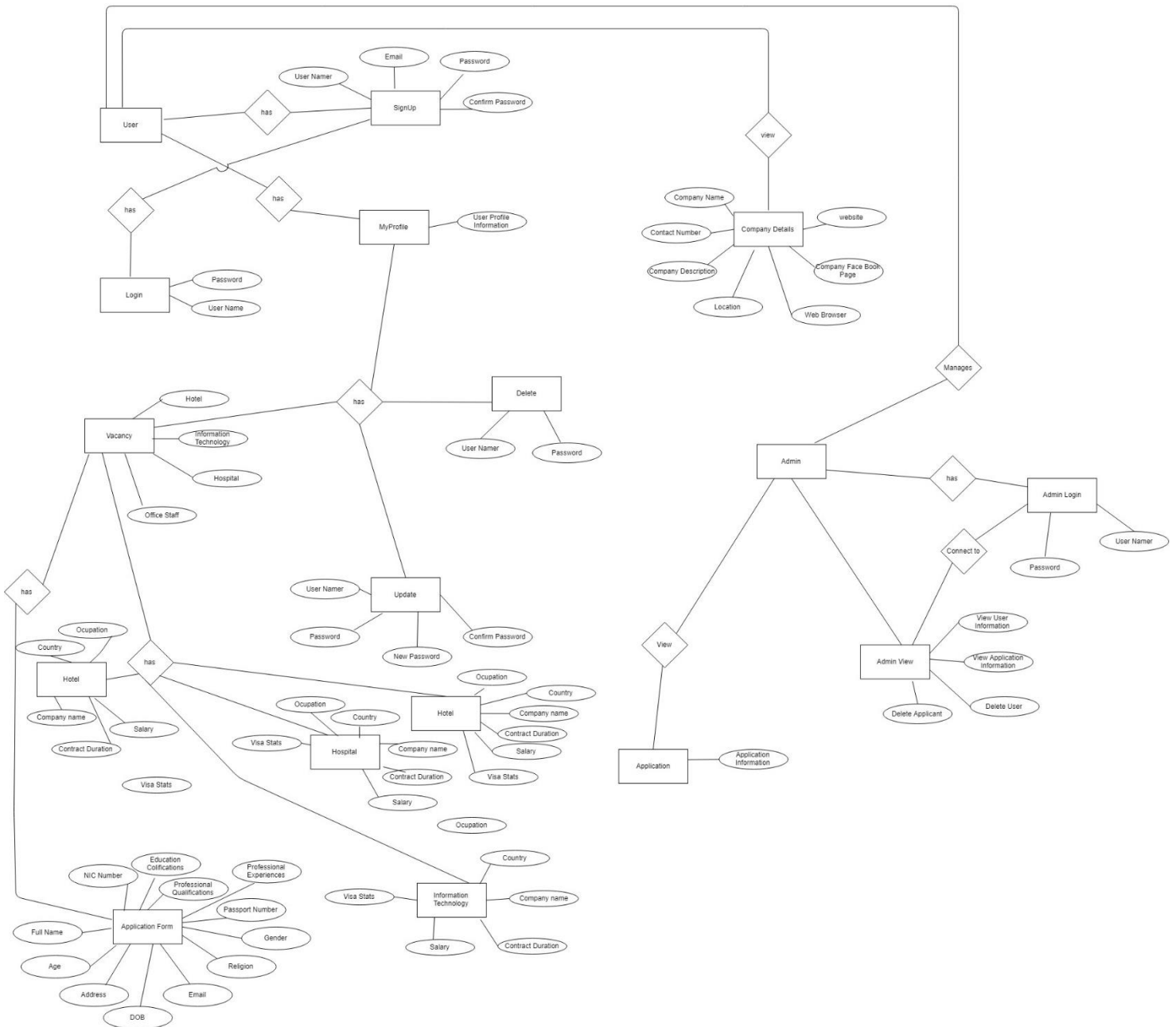
First , user need to register for the system. Then he can check available job vacancies and apply for the job he want.

Then the admins can track users' information and applicants' information and delete if there are unnecessary applicants or users.
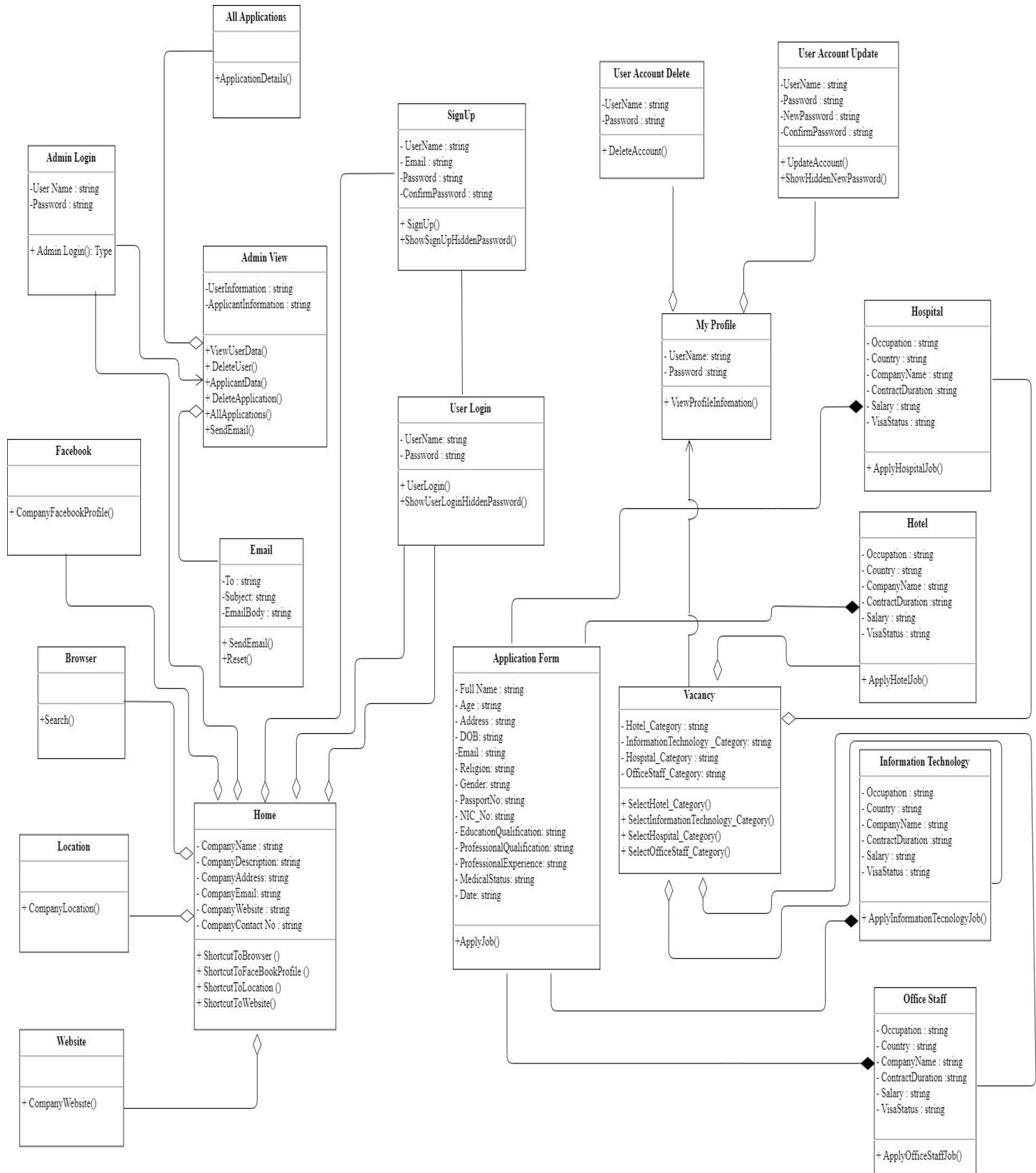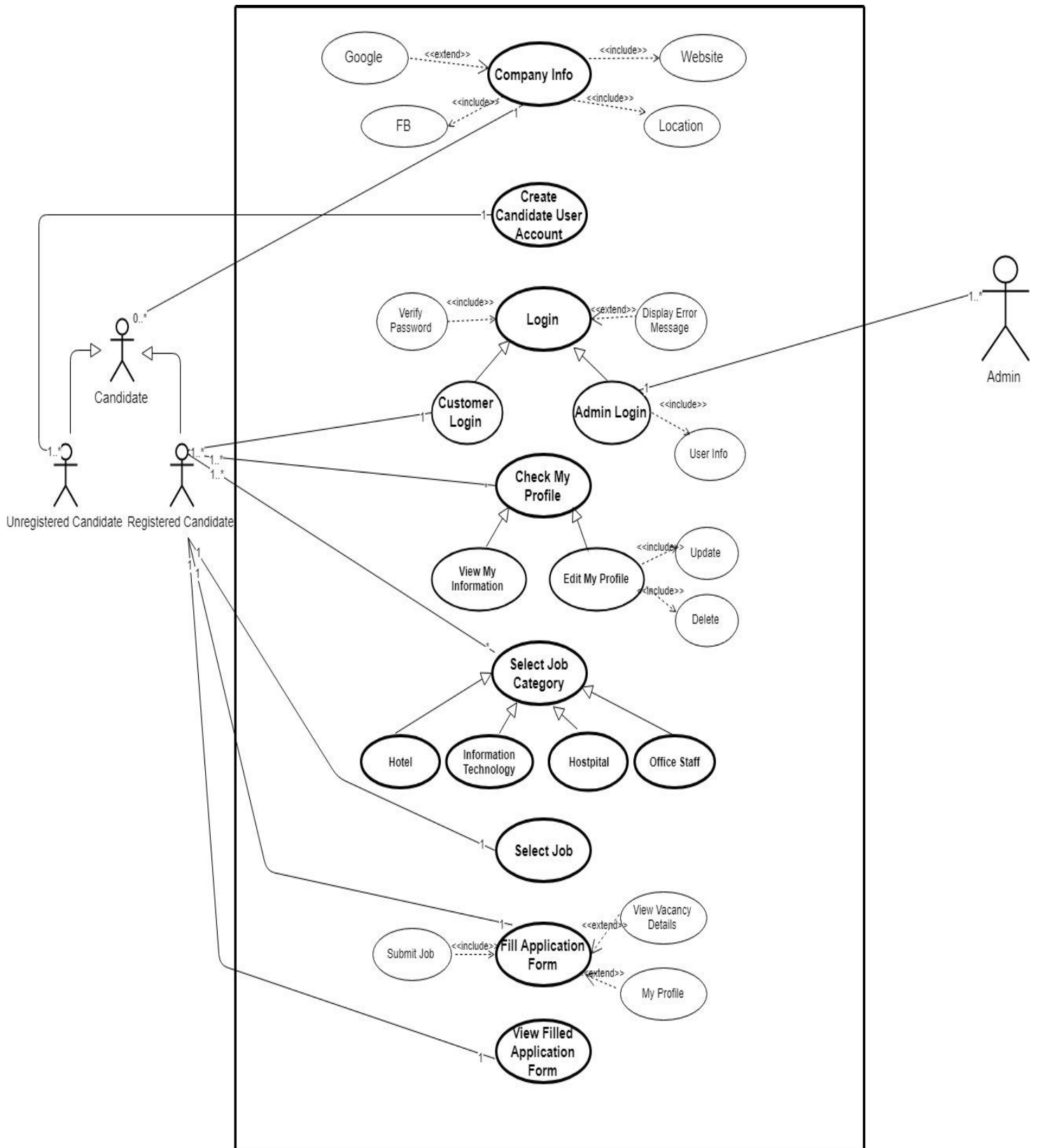
Flow of the System

Admin Only Login ← Home page → Company Facebook Page
→ Browser
→ Company Website
→ Company Location (Google map)

Member Login

New Member Sign Up

View My profile Information ← My Profile → Application Form
→ Account Delete
→ Account Update

Vacancy

Hotel   Information   Hospital   Office Staff
               Technolgy

v1 v2 v3 v4   v1 v2 v3 v4   v1 v2 v3 v4   v1 v2 v3 v4

Application Form

User Information → View User Data
→ Delete User

Applicant Information

Applicant Data   Delete Applicant

Send Email

All Applications

ER Diagram

Class Diagram

All Applications
+ApplicationDetails()

User Account Delete
-UserName : string
-Password : string
+ DeleteAccount()

User Account Update
-UserName : string
-Password : string
-NewPassword : string
-ConfirmPassword : string
+ UpdateAccount()
+ShowHiddenNewPassword()

SignUp
- UserName : string
- Email : string
-Password : string
-ConfirmPassword : string
+ SignUp()
+ShowSignUpHiddenPassword()

Admin Login
-User Name : string
-Password : string
+ Admin Login(): Type

Admin View
-UserInformation : string
-ApplicantInformation : string
+ViewUserData()
+ DeleteUser()
+ApplicantData()
+DeleteApplication()
+AllApplications()
+SendEmail()

My Profile
- UserName: string
- Password :string
+ ViewProfileInfomation()

Hospital
- Occupation : string
- Country : string
- CompanyName : string
- ContractDuration :string
- Salary : string
- VisaStatus : string
+ ApplyHospitalJob()

Facebook
+ CompanyFacebookProfile()

User Login
- UserName: string
- Password : string
+ UserLogin()
+ShowUserLoginHiddenPassword()

Hotel
- Occupation : string
- Country : string
- CompanyName : string
- ContractDuration :string
- Salary : string
- VisaStatus : string
+ ApplyHotelJob()

Email
-To : string
-Subject: string
-EmailBody : string
+ SendEmail()
+Reset()

Browser
+Search()

Application Form
- Full Name : string
- Age : string
- Address : string
- DOB: string
-Email : string
- Religion: string
- Gender: string
- PassportNo: string
- NIC_No: string
- EducationQualification: string
- ProfessionalQualification: string
- ProfessionalExperience: string
- MedicalStatus: string
- Date: string
+ApplyJob()

Vacancy
- Hotel_Category : string
- InformationTechnology _Category: string
- Hospital_Category : string
- OfficeStaff_Category: string
+ SelectHotel_Category()
+ SelectInformationTechnology_Category()
+ SelectHospital_Category()
+ SelectOfficeStaff_Category()

Information Technology
- Occupation : string
- Country : string
- CompanyName : string
- ContractDuration :string
- Salary : string
- VisaStatus : string
+ ApplyInformationTecnologyJob()

Location
+ CompanyLocation()

Home
- CompanyName : string
- CompanyDescription: string
- CompanyAddress: string
- CompanyEmail: string
- CompanyWebsite : string
- CompanyContact No : string
+ ShortcutToBrowser ()
+ ShortcutToFaceBookProfile ()
+ ShortcutToLocation ()
+ ShortcutToWebsite()

Office Staff
- Occupation : string
- Country : string
- CompanyName : string
- ContractDuration :string
- Salary : string
- VisaStatus : string
+ ApplyOfficeStaffJob()

Website
+ CompanyWebsite()

Usee Case Diagram

Samples of the Developed System

This is the **HOME** page of the system.

There is a brief introduction about the company.

Through this page we can go to,

- Company Details :
    1) Company Facebook page
    2) Web browser (for search more information)
    3) Company website
    4) Company location (Google map)

- Sign Up page
- Login page
- Admin Login pa

Admin Login

UserName

Password ☐ Show

Login   Cancel

- This **Admin Login** page.
- Only the admins can log in to the **Admin view** page.
- If the Username or the Password is incorrect an error message will display.
- Passwords will display in ' ***** ' But if the admin click on **Show** , Passwords will be shown.

- Admin can view all the applicants and their age who applied for job vacancies.

- Admin can view all the users who created accounts through the system.

- This is the **Admin View** page. After the admin logged in to his account he will redirected to this page.
- Admin can **view user details**. He can **delete** a user by entering the username.
- Admin is able to see who are job **applicants** and their information. And he can **delete** an applicant by entering the applicant name.
- Admin can view **all the applications** and **send email** to the applicants.

All Application

	1	ABC	...	20	No:10, abc road. ...	01/02/1998	abc@gmail.com ...	Buddhist

Back   Application Details

- This is the **All applications** page.
- By clicking the **all applications** in **admin view** page will be redirected to this page.
- In this page admin can see all the applications for the job vacancies.

Application Form

Full Name - _____

Age - _____

Address - _____

DOB - _____

Email - _____

Religion - _____

Gender ○ Male ○ Female

Passport No - _____

NIC No - _____

Educational Qualifications - _____

Professional Qualifications - _____

Professional Experiences - _____
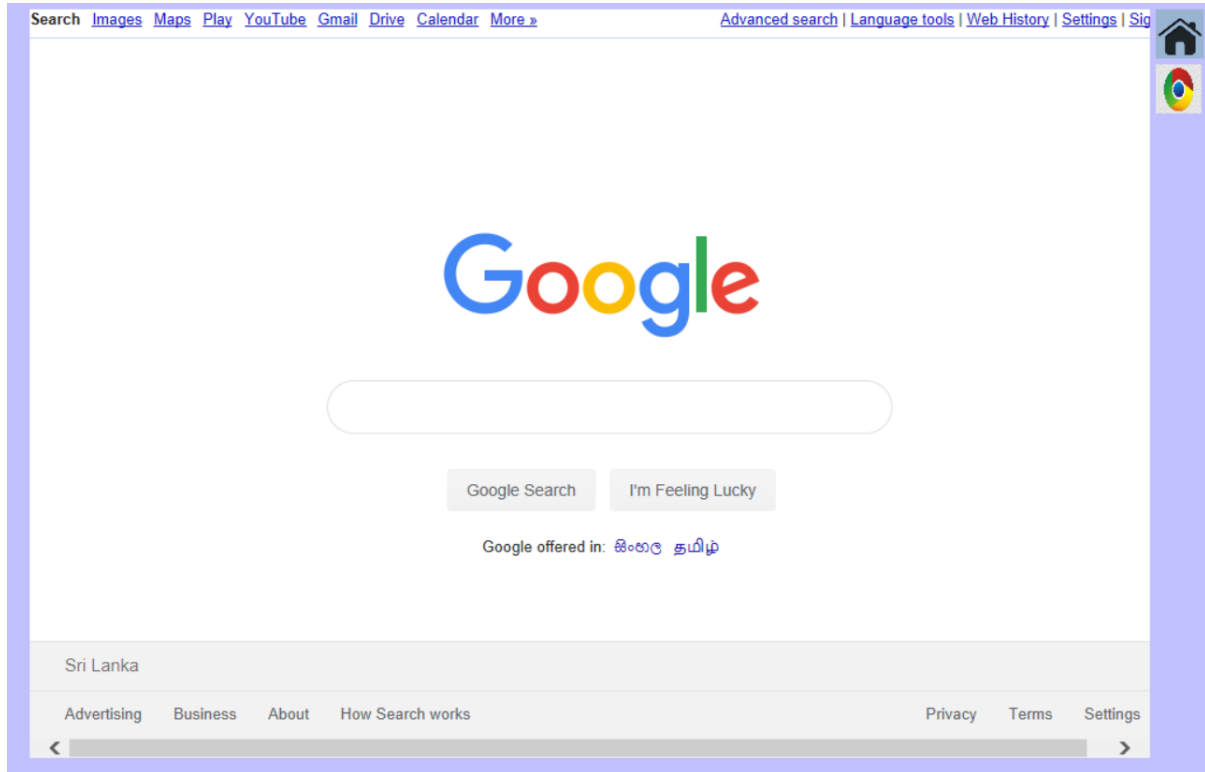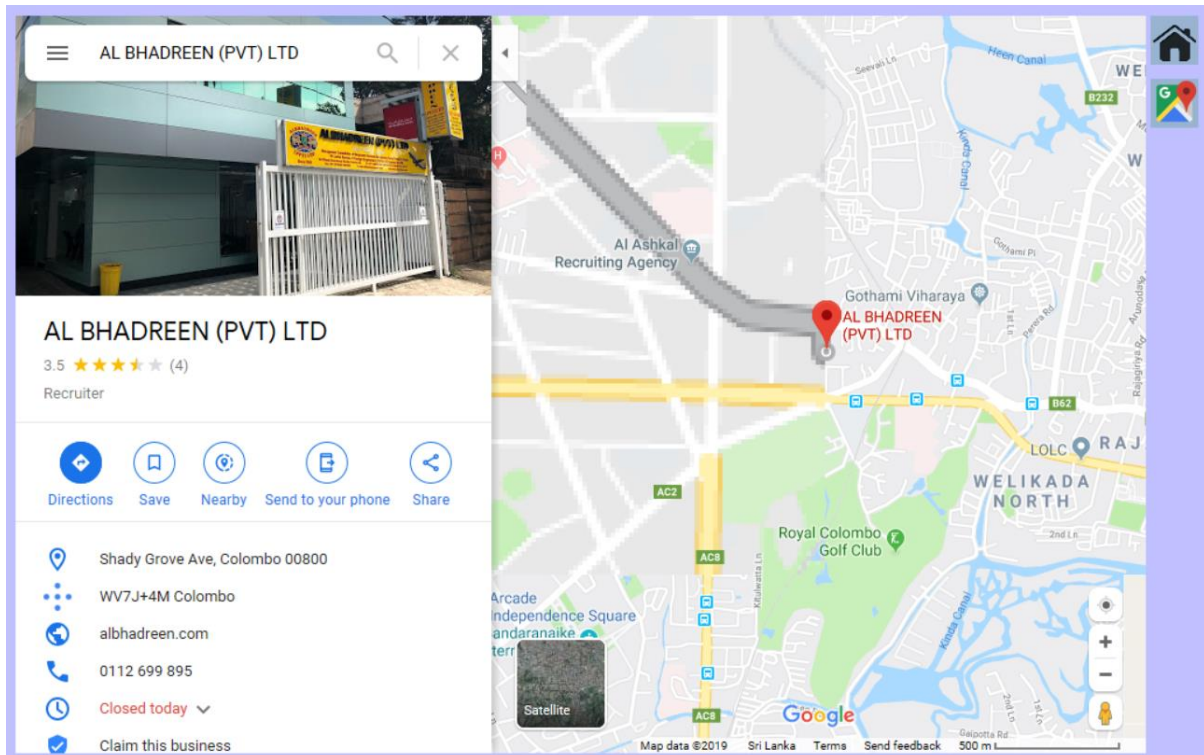
Medical Status - _____

Date - _____

⊘ Apply Job   ⊘ Vacancy   ⊘ Profile

- This is **Application Form** page.
- Users can go to this page through their **My profile** page or **Vacancy** page.
- Users can fill the application form and apply for job they are interested.
- Users can go back to the **My profile** or **vacancy** pages.

- This is the **Browser** page.
- Unregistered users can search about the company through the **browser** before register.
- By clicking the browser shortcut in the home page will be redirected to this page.

- This is the **Company location** page.
- Unregistered users can see where the company is located though the **Google map** before register.
- By clicking the location shortcut in the home page will be redirected to this page.

- This is **Email** page.
- Admin can send emails to the job applicants through this page.
- By clicking the **Email button** in the **Admin View** page will be redirected to this page.

- This is the **Company Facebook** page.
- Unregistered users can see the company details through their Facebook page before register.
- By clicking the Facebook shortcut in the home page will be redirected to this page.

Hospital

Ocupation - NURSE
Country - UAE(DUBAI)
Company Name - Emirates Hospital
Contract Duration - 4 years
Salary - -AED 2300
Visa Status - Employment Visa
Apply Job

Ocupation - Receptionist
Country - Malaysia
Company Name - Lawas Hospital
Contract Duration - 2 years
Salary - RM 1900
Visa Status - Employment Visa
Apply Job

Ocupation - Ward clerk
Country - UAE(Dubai)
Company Name - Emirates Hospital
Contract Duration - 2 years
Salary - AED 2000
Visa Status - Employment Visa
Apply Job

Ocupation - Heif Medical Officer
Country - UAE(Dubai)
Company Name - Emirates Hospital
Contract Duration 4 years
Salary - AED 7000
Visa Status - Employment Visa
Apply Job

Vacancy   Profile

- This is **<u>Hospital</u>** vacancies page.
- The job vacancies available for the Hospital category will be display here.
- Users can go back to the **Vacancy** page or the **My Profile** page.

Hotel

Ocupation - Sous chef

Country - Jumeirah Group

Company Name -
UAE(Dubai)

Contract Duration 2 years

Salary - AED 4000

Visa Status -
Employment Visa

⊘ Apply Job

Ocupation -
Front office executive

Country -
UAE(Dubai)

Company Name -
Hotel Emirates towers

Contract Duration - 4 years

Salary - AED 4800

Visa Status -
Employment Visa

⊘ Apply Job

Ocupation -
Barista Junior(Coffe shop)

Country - Malaysia

Company Name -
Avani Sepang Goldcoast Resort

Contract Duration - 4 years

Salary - Rm 2800

Visa Status -
Employment Visa

⊘ Apply Job

Ocupation - Western chef

Country - Singapore

Company Name -
Lawas Hospital

Contract Duration - 2 years

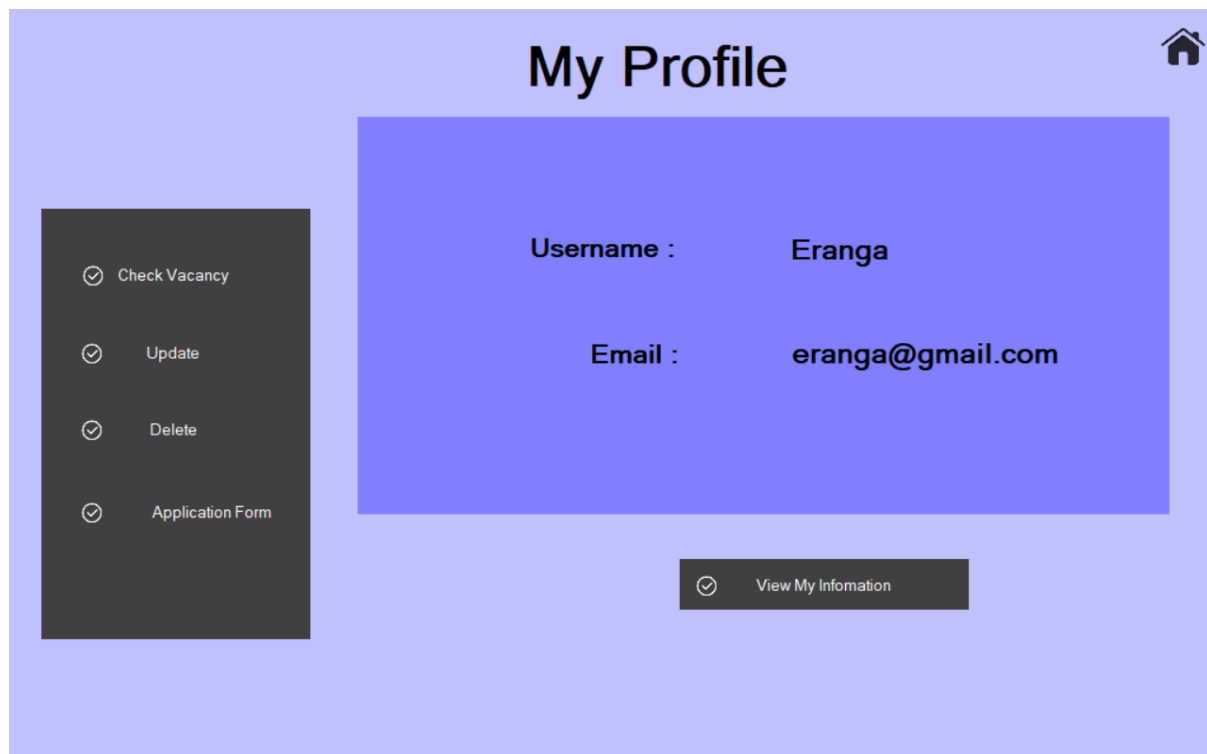**Salary -** Rm 2800

Visa Status -
Employment Visa

⊘ Apply Job

⊘ Vacancy   ⊘ Profile

- This is **Hotel** vacancies page.
- The job vacancies available for the Hotel category will be display here.
- Users can go back to the **Vacancy** page or the **My Profile** page.

Information Technology

Ocupation -
Junior Software Engineer
Country - UAE(Dubai)

Company Name -
EMTECH
Contract Duration - 4 years

Salary -
AED 5400

Visa Status -
Employment Visa

⊘ Apply Job

Ocupation -
IT Service Desk Analyst
Country - Malaysia

Company Name -
Vivatel Group
Contract Duration - 4 years

Salary - RM 3800

Visa Status -
Employment Visa

⊘ Apply Job

Ocupation -
Junior Network Engineer
Country - Japan

Company Name -
Net one systems co-Ltd
Contract Duration -
2 years

Salary - Yen 290000

Visa Status -
Employment Visa

⊘ Apply Job

Ocupation -
Technical support
Country - Japan

Company Name -
Net One System Co-Ltd
Contract Duration - 4 years

Salary -
Yen 200000

Visa Status -
Employment Visa

⊘ Apply Job

⊘ Vacancy   ⊘ Profile

- This is **Information Technology** vacancies page.
- The job vacancies available for the Information Technology category will be display here.
- Users can go back to the **Vacancy** page or the **My Profile** page.

- Users can see their **Profile Details** by clicking **View My Information** button. This is unique to each user.

  .

User Account Delete

UserName   [   ]

Password   [   ]

Cancel   Delete

- This is **User Account Delete** page.
- Users can delete their account through this page.

User Account Update
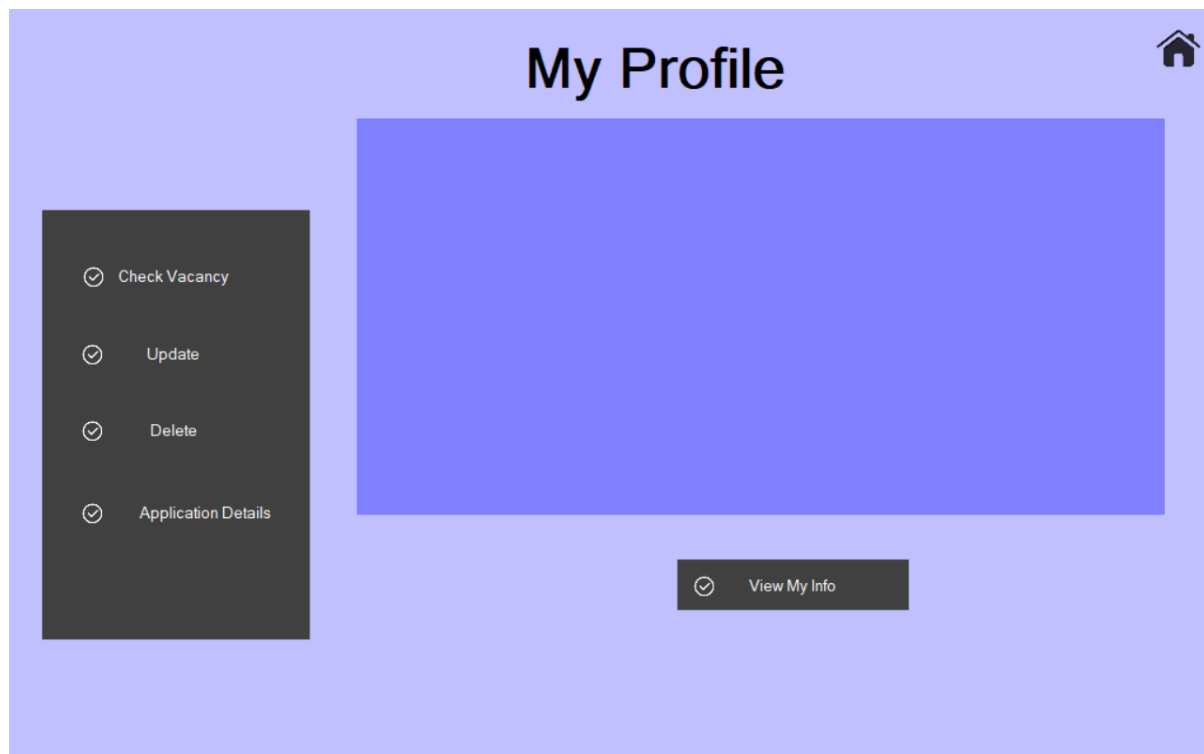
UserName		
Password		
New Password		☐ Show
Confirm Password		☐ Show

Cancel   Update

- This is **User Account Update** page.
- Users are able to reset their account password through this page.
- If the New Password and the Confirm Passwords are not matching , an error message will display.
- Password and Confirm Password will display in ' ***** ' But if the User click on **Show** , Password and Confirm Password will be shown.

- This is **My Profile** page.
- Users can see their **Profile Details** by clicking **View My Information** button. This is unique to each user.
- Users are able to go to **Vacancy** , **Update** , **Delete** , **Application Form** pages though this page.

- This is **Sign Up** page.
- User need to enter User Name , Email , Password and Confirm Password to sign up.
- If the Password and the Confirm Password are not matching , an error message will display.
- Password and Confirm Password will display in ' ***** ' But if the User click on **Show** , Password and Confirm Password will be shown.

Office Staff

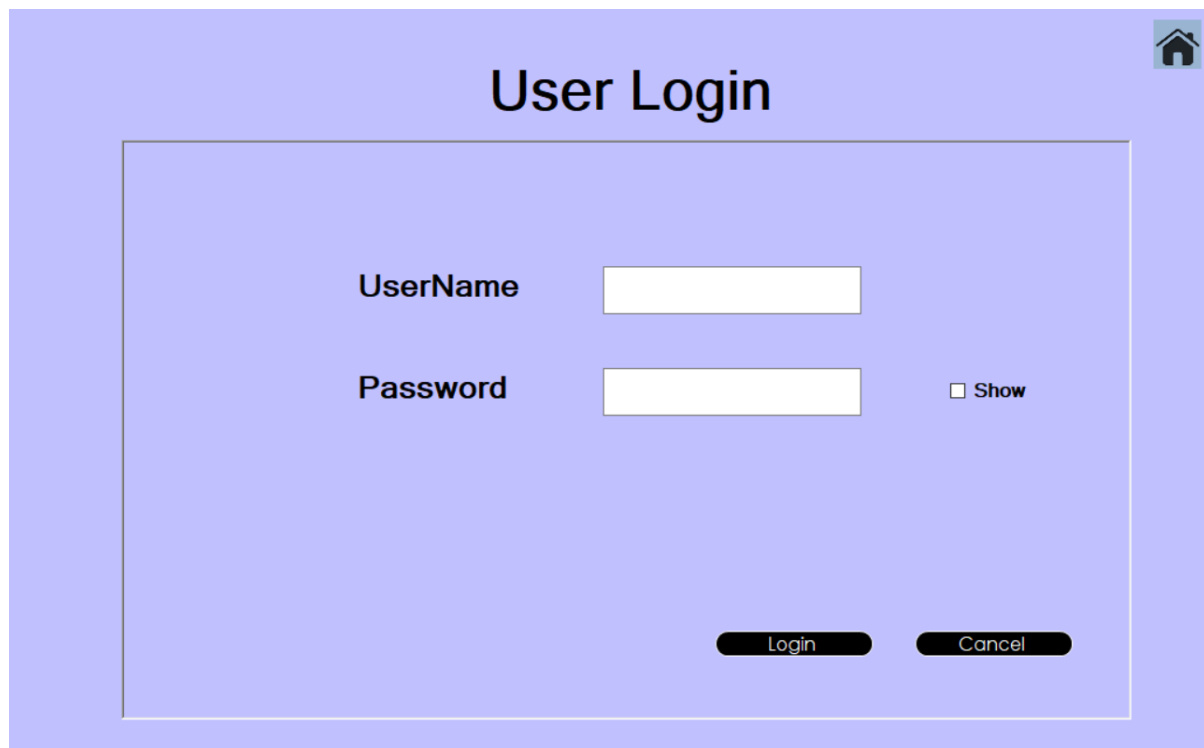| Ocupation - Clerk	Ocupation - Accountant	Ocupation - Admin Assistant	Ocupation - Office Boy
Country - UAE(Dubai)	Country - Singapore	Country - Singapore	Country - Dubai
Company Name - Trosten industries	Company Name - Changi Airport Group	Company Name - Changi Airport Group	Company Name - Trosten Industries
Contract Duration - 4 years	Contract Duration - 2 years	Contract Duration 2 years	Contract Duration 4 years
Salary - AED2400	Salary - $1500	Salary - $1300	Salary - AED1900
Visa Status - Employment Visa	Visa Status - Employment Visa	Visa Status - Employment Visa	Visa Status - Employment Visa
⊘ Apply Job	⊘ Apply Job	⊘ Apply Job	⊘ Apply Job

⊘ Vacancy   ⊘ Profile

- This is **Office Staff** vacancies page.
- The job vacancies available for the Office Staff category will be display here.
- Users can go back to the **Vacancy** page or the **My Profile** page.

- This is **User Login** page.
- Users need to enter their User Name and the password to log in.
- If User Name is not entered , an error icon and a message will be display. And user will not be able to proceed if he didn't enter the User Name.
- If Password is not entered , an error icon and a message will be display. . And user will not be able to proceed if he didn't enter the Password.
- Password will display in ' ***** ' But if the User click on **Show** , Password will be shown.

This is **Vacancy** page.

Users can see available job vacancy categories in this page.

In **My Profile** page , Check vacancy button will be redirected to this page.

- This is the **Website** page.
- Unregistered users can see the company details through their website before register.
- By clicking the Facebook shortcut in the home page will be redirected to this page.

Test Plan

Sign Up Form

Test Case No:	Inputs	Expected Results	Actual Result
01	**Valid Data** UserName : Achala Password : Achala1 ConfirmPassword : Achala1	"You have created account successfully"	"You have created account successfully"
02	**Invalid Data** UserName : Achala Password : Achala1 ConfirmPassword : Achala12	"Passwords are not matching"	"Passwords are not matching"

Login Form

Test Case No:	Inputs	Expected Results	Actual Result
01	**Valid Data** UserName : Eranga Password : Eranga1	"You have successfully logged in"	"You have successfully logged in""
02	**Invalid Data** UserName : Eranga Password : Eranga24	"Wrong username or password "	"Wrong username or password "
03	UserName : null Password : Eranga	"Please enter username"	"Please enter username"
04	UserName : Eranga Password : null	"Please enter password"	"Please enter password"