EIE 4432 Project Report

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Introduction

For this project, we were required to create a lost and found system where users could register their accounts and use them to log in to the lost and found system to post notices of lost and found items. Users can interact with each other, reply to all pending notices and see the details of all notices. In addition to the user side, we have also created an administrator account to view the details of users and notices.

Function Specification

Category	Functions	Finished or not
User Registration	User registration with user id, nick name, email, profile image, gender, and birthday	Finished
	Users update personal information, including nick name, email and profile image	Finished
	Not allowed an admin to register an account	Finished
	Prompt when input box is invalid	Finished
User Login	Two roles: admin and users	Finished
	Use id and password to login. The admin uses default id "admin" and password "adminpass" to login in.	Finished
	Remember login status using cookie	Finished
	User logout (and delete cookie)	Finished
	Forget and reset password (for users)	Finished
	Prompt when input box is invalid	Finished
User Operations	Create Notice: A user creates a notice with the following information: type (lost/found), date, venue, contact, description, and	Finished

	image.	
	View Notices: A list page of all pending notices in the system. Each notice has "respond" and "view" buttons.	Finished
	View My Notices: A list page of all notices that are created or responded by the user	Finished
	View Notice Detail: A detailed page of a notice (including response if it is completed)	Finished
	Respond to A Notice: A user responds to a notice by sending a message in the textbox to the owner of the notice. The notice will be marked as completed.	Finished
	View photos of the three latest notices: Three photos that loop on the application's homepage, which users can click on to see the corresponding details.	Finished
Admin Operations	View List of Registered Users: A list page of all registered users in the ascending order of users' nick name, showing the number of notices each user created and responded, respectively.	Finished
	View List of Pending/Completed Notices: Two list pages of all pending or completed notices in the system.	Finished
	View List of Notices of a User: A list page of all pending or completed notices in the system	Finished

created by a user, specified	
by the user id.	
System Statistics: Use a	Finished
chart to show the statistics	
of the number of notices in	
different age ranges (e.g.,	
[10, 30], [30,50], [50, 70],	
etc.) among users.	

Database Design

Table personal

Column Name	Description
userid(PK)	It is the unique key that users can set their
	own Settings to identify users.
pswd	It is the field to store the password of users.
email	It is the field to store the email of users.
birthday	It is the field to store the birthday of users.
age	It is the field to store the age that is
	calculated by birthday of users.
nickname	It is the field to store the nickname of users.
gender	It is the field to store the gender of users.
It is the field to store the birthday of users.	It is the field to store the address of the
	profile image of users.



Table notice

Column Name	Description
object_id(PK)	It is the unique key to identify every notice
	that users create.
userid_c	It is the field to store the user id of users
	that create the notice.

userid_r	It is the field to store the user id of users
	that respond the notice.
nickname_c	It is the field to store the nick name of users
	that create the notice.
nickname_r	It is the field to store the nick name of users
	that respond the notice.
tp	It is the field to store the type of created
	notice.(e.g., lost or found)
dt	It is the field to store the date that the
	property was found or lost.
venue	It is the field to store the venue that the
	property was found or lost.
contact	It is the field to store the contact of the
	users who create the notice.
descr	It is the field to store the description of the
	lost or found property.
img	It is the field to store the photo of the
	property.
st	It is the field to store the state of the
	property.(e.g., pending or completed)
age	It is the field to store the age of the users
	who create the notice.
resp	It is the field to store the reply of the users
	who respond the notice.

#	名字	类型	排序规则	属性	空	默认	注释	额外	操作		
1	object_id 🔑	int(11)			否	无		AUTO_INCREMENT	❷ 修改	⊜ 删除	更多
2	userid_c	varchar(20)	utf8mb4_general_ci		否	无			❷ 修改	⊜ 删除	更多
3	userid_r	varchar(20)	utf8mb4_general_ci		否	无			❷ 修改	⊜ 删除	更多
4	nickname_c	varchar(20)	utf8mb4_general_ci		否	无			❷ 修改	⊜ 删除	更多
5	nickname_r	varchar(20)	utf8mb4_general_ci		否	无			❷ 修改	⊜ 删除	更多
6	tp	varchar(10)	utf8mb4_general_ci		否	无			❷ 修改	⊜ 删除	更多
7	dt	date			否	无			🥜 修改	⊜ 删除	更多
8	venue	varchar(50)	utf8mb4_general_ci		否	无			❷ 修改	⊜ 删除	更多
9	contact	int(11)			否	无			❷ 修改	⊜ 删除	更多
10	descr	varchar(100)	utf8mb4_general_ci		否	无			❷ 修改	⊜ 删除	更多
11	img	varchar(100)	utf8mb4_general_ci		否	无			❷ 修改	⊜ 删除	更多
12	st	varchar(15)	utf8mb4_general_ci		否	无			❷ 修改	⊜ 删除	更多
13	age	int(11)			否	无			❷ 修改	⊜ 删除	更多
14	resp	varchar(500)	utf8mb4_general_ci		否	无			❷ 修改	⊜ 删除	更多

Table administrator

Column Name	Description
userid	It is the unique key to identify the
	administrators.
pswd	It is the field to store the password of the
	administrators.



Entity Relationship Diagram

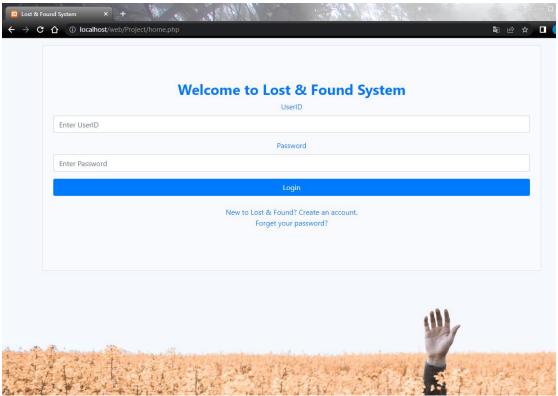






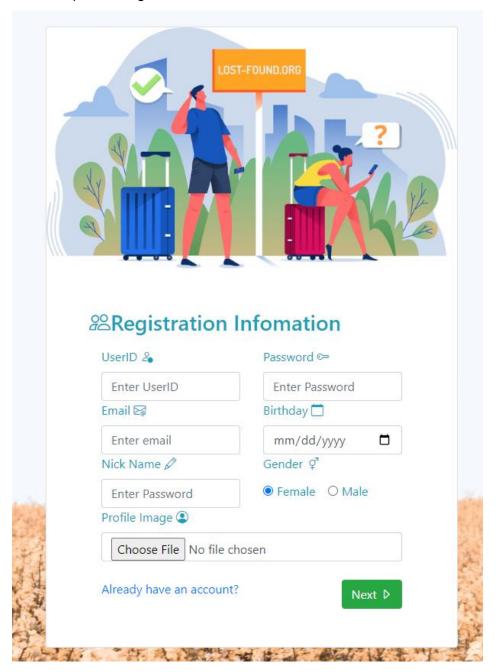
Function part

Users can enter http://localhost/web/Project/home.php to get to the home page(login page), and users can choose to use user id and password to login the lost and found system, or to click the "Forget your password" link to reset their password when they forget their password. And the new users can click "New to Lost & Found? Create an account." Link to register their own accounts.

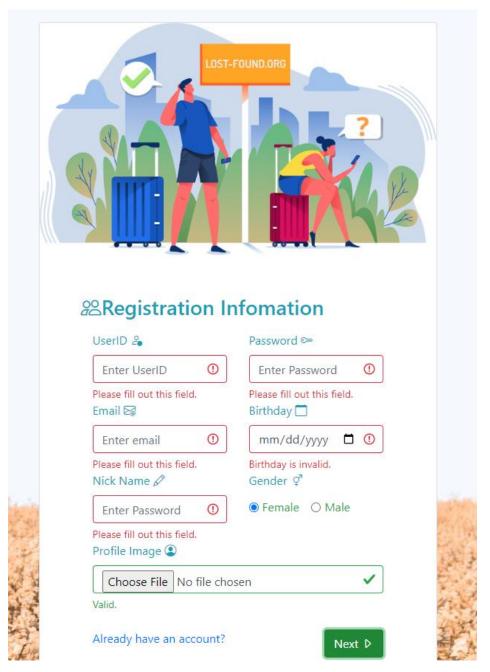


User Registration

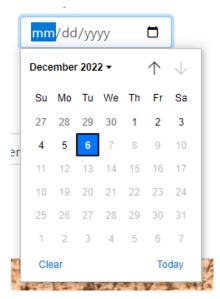
When new users get into the registration page to register the accounts, users should create their own user id and password, also they need to input the email, birthday, gender, and create their own nick name. And users can upload a .jpg or .png format file to be used as their own profile image.



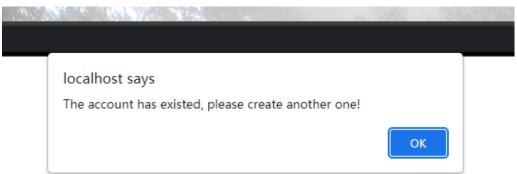
When the user clicks directly on the "Next" button, the system will remind the user to complete each empty input box.



And the system restricts users from choosing a time after today as their birthday.

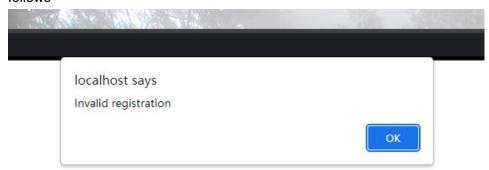


And when users want to register an existed account(user id), the system will prompt as follows

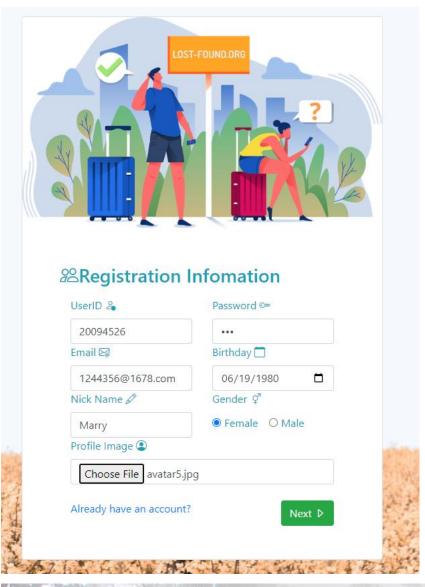


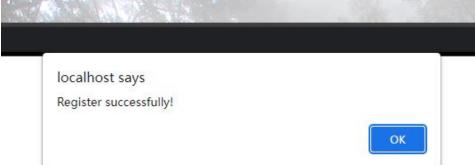
And after clicking the "OK", the page will automatically jump to the registration page for the user to re-enter.

And when users want to register an administrator account, the system will prompt as follows



And, after clicking the "OK", the page will automatically jump to the home page(login page). When the user has successfully registered, the system will prompt "Registration successful" and after clicking "OK", the user will automatically jump to the login screen.



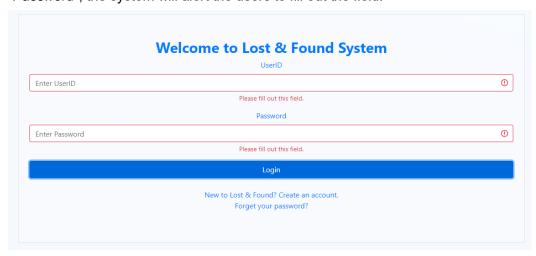


T			~	usorid	pewd	omail	birthday	age	nickname	gender	profileimage
E	∅ 编辑	計 复制	⊜ 删除	20094526	123	1244356@1678.com	1980-06-19	42	Marry	female	./uploads/a7c2a7c4b2b7c0fcd34d9376882b9719.jpg
	∅ 编辑	計 复制	⊜ 删除	20094527	12566	20094527d@connect.polyu.hk	2002-01-08	20	Wen	male	./uploads/9356047bd44705b9a03eca1a90c42516.jpg
	🧷 编辑	复制	⊜ 删除	27440588	123	123@gmail.com	1989-04-15	33	Mike	male	./uploads/e28627cd9d0bd3f5ecb73104b0f9b190.jpg
	⊘ 编辑	复制	⊜ 删除	28760533	12345	1443@gmail.com	1995-08-31	27	Susan	female	./uploads/59522345376a726360958dc9f94608c9.png
	⊘ 编辑	复制	⊜ 删除	28770439	123	132@gmail.com	2003-07-17	19	Adam	male	./uploads/ff9fb53bbefa894d758bca7d776b629c.png

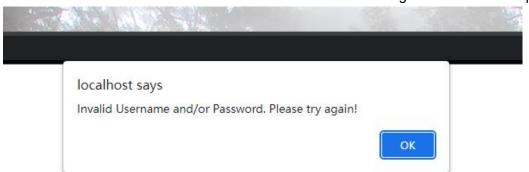
User Login

The system has a user side and an administrator side. Users can log in to the user side by registering to deposit an account into the database, and administrators can log in to the administrator side using their unique account. The functions of the user side and the administrator side are different.

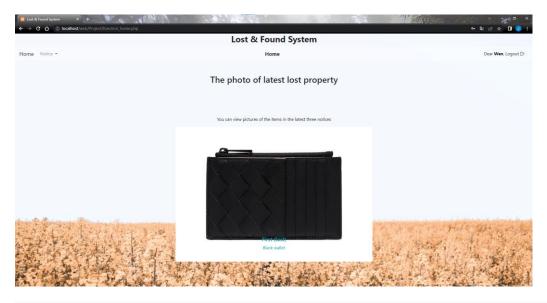
When users directly click on the "Login" without anything on the textbox of "UserID" or "Password", the system will alert the users to fill out the field.



When a user enters the wrong account, the system will prompt them as follows and jump back to the login page

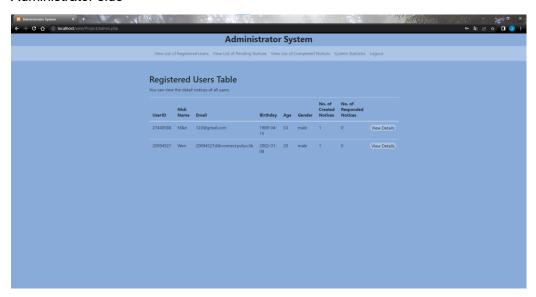


User side





Administrator side





And both the user side and the administrator side use cookies to remember the account status.

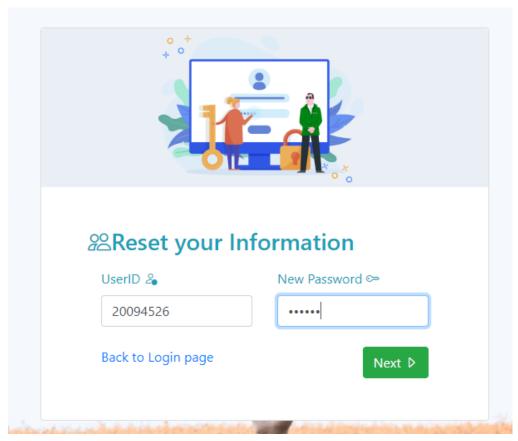
```
if(!isset($_COOKIE["userid"])){
    setcookie("userid", $userid, time() + (60 * 60 * 24));
    setcookie("pswd", $pswd , time() + (60 * 60 * 24));
```

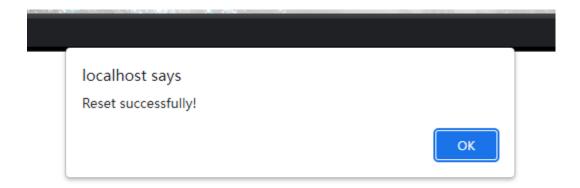
```
if($userid=='admin' & $pswd=='adminpass'){
  setcookie("userid", $userid, time() + (60 * 60 * 24));
  setcookie("pswd", $pswd , time() + (60 * 60 * 24));
```

And both can click on the logout link on the page to log out of the current account and delete the cookie.



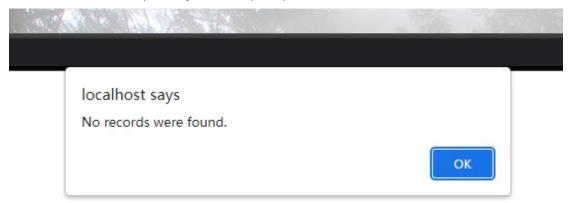
Also, when users forget their password, they can reset their own password based on their unique user id after clicking the "Forget your password" link on the home page (login page). Since the user id of each user is not known to other users, it is relatively safe to use the user id to reset the password.







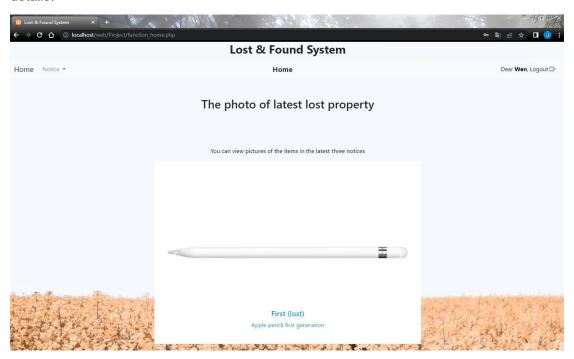
And when users want to reset an account that does not exist in the database(e.g., the administrator account), the system will prompt as follows



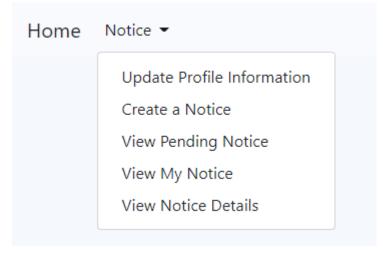
And after clicking the "OK", the page will jump to the home page(login page).

User Operation

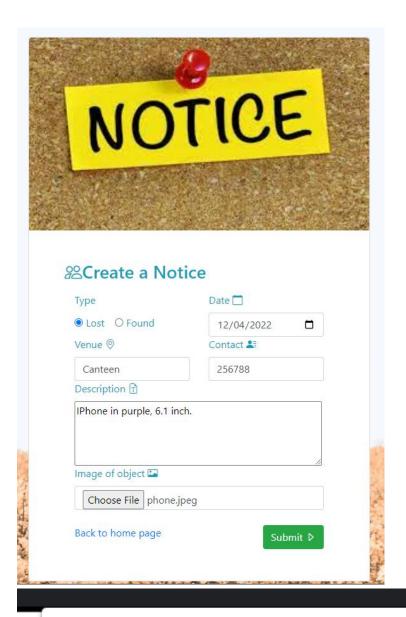
Once the users have successfully logged in, they will go to the home page of the application where they will see a photo carousel with the latest three notices of items. The users can choose to click on the photo of interest to see its details, or the user can use the navigation bar above to see all pending notices, see their own notices, or see all notices to see the details.



When users want to post a notice, they can click on the "Notice" link in the navigation bar and click on "Create a notice" to access the posting screen.



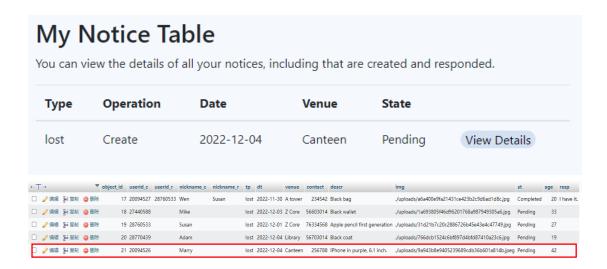
The users can select whether the property is lost or found, fill in the date, location and contact details, and write a description and attach a photo of the item to help locate the lost item or owner. Alternatively, users can choose to click on the "Back to the home page" link to return to the home page to find additional notices. After finishing the notice, it will automatically jump to the "My Notice Table" page.



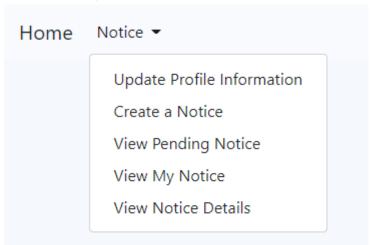
localhost says

You create a notice successfully!

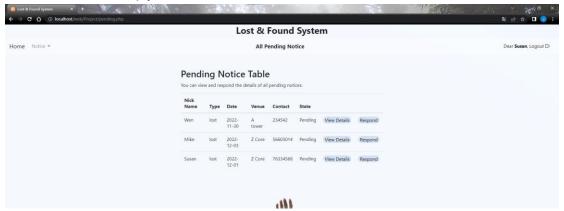
OK



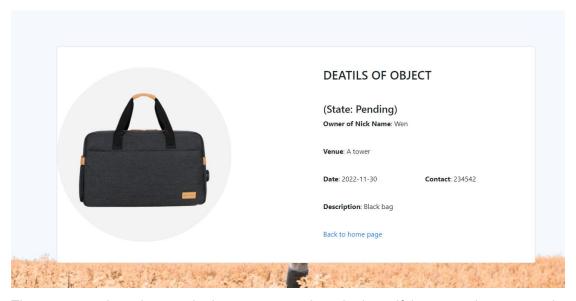
When users want to see all pending notices, they can click on "View Pending Notice" in the upper navigation bar under "Notices".



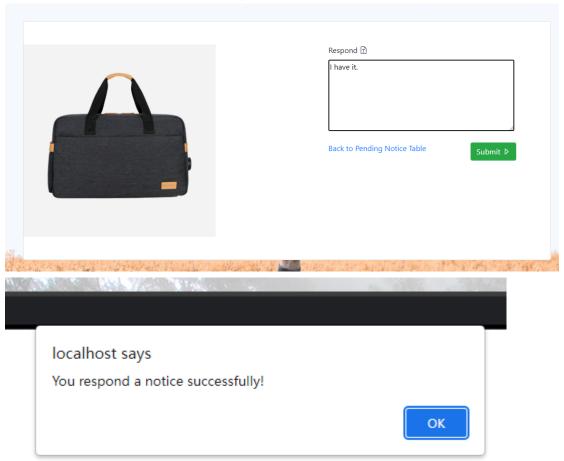
Users can see all pending notices on the Pending Notices page and can view the details of each notice and reply to the notice.

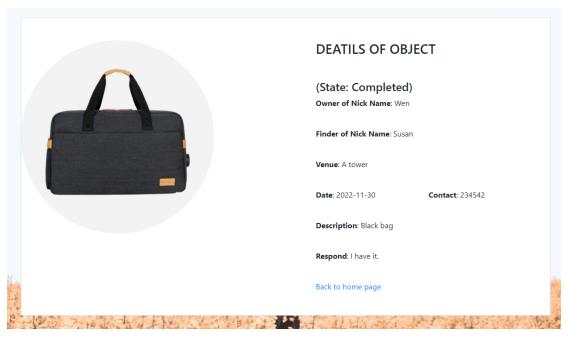


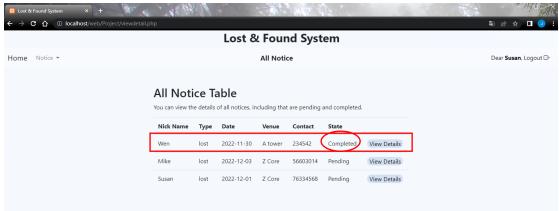
Once the user has clicked on the "view details" button, they can see the nickname of the owner of the notice, the location of the loss, the date and contact details, and a description of the item.



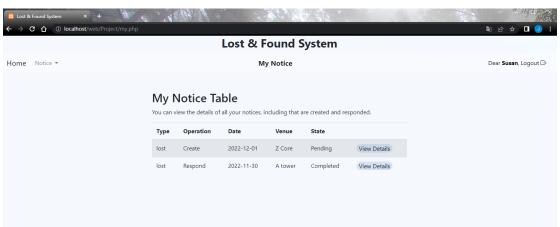
The users can then choose whether or not to reply to the item. If the users choose to reply, the notice will disappear from the pending notices table (Users can still view its details in the "All Notice Table" page or, if they have answered it themselves, they can also view it in the "My Notice Table" page.), its status will be changed to "Completed" and the nickname of the person who replied and the reply will appear on the notice details.



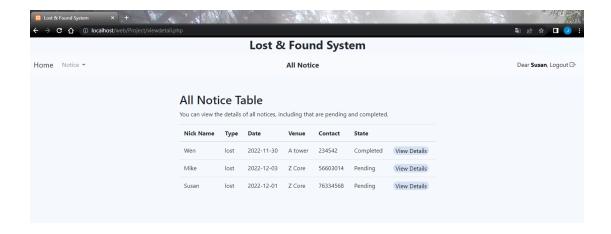




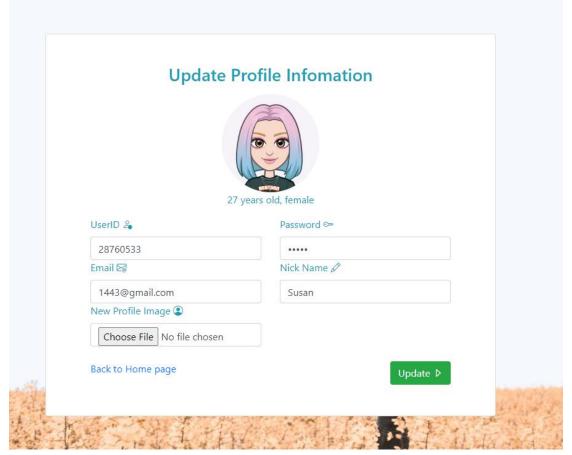
Users can also click on "View My Notice" in the top navigation bar to see all their notices, including those they have created or replied to. They can view the details of each of their notices.



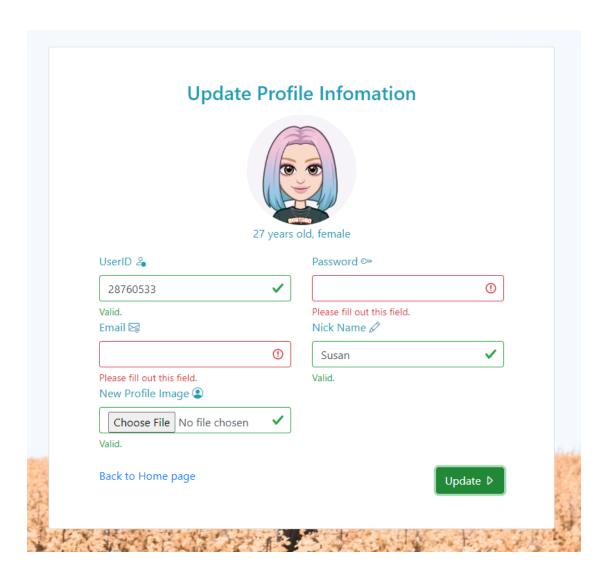
When the users want to view the details of all notices, the users can click on "View Notice Details" to view all notices, whether completed or not.



Furthermore, if users wish to change their personal information, such as their avatar, email address, nickname, password, etc., they can click on "*Update Profile Information*" to go to your personal information page and change your information.

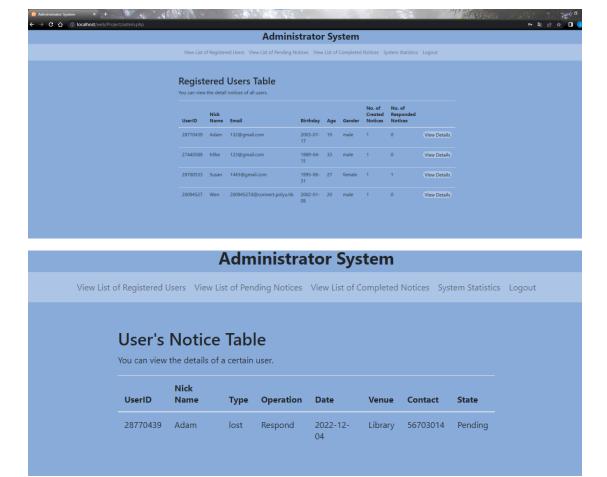


When the users have any of the input boxes empty, if the user chooses to click "*Update*", the empty box will be prompted for the users to enter. But if users do not want to change their avatar, users can choose not to upload any files and click "*Update*" to keep your previous avatar. If the users want to update a certain piece of information, for example just the nickname or email, then just change that piece of information and click "*Update*".



Admin Operation

When the administrator logs in successfully, he/she will see a table of registered users in ascending order by their nickname directly, with statistics on the details of all registered users, including the number of notices they have created and the number of notices they have replied to. The administrator can also click on "View Details" to see details of all pending or completed notices created by each user.



Administrators can also click on "View List of Pending Notices" in the top navigation bar to see all pending notices in the system, or "View List of Completed Notices" to see all completed notices in the system.

) Ondin	NL C							
Dondin	NI C							
Dondin	NI C							
	a Notice	c Table						
	g Notice							
ou can view a	ll pending notice	S.						
UserID of	UserID of	Nickname of	Nickname of					
creator	replier	creator	replier	Туре	Date	Venue	Contact	State
27440588		Mike		lost	2022-	Z Core	56603014	Pending
				.000			50005011	· cmamg
27440300					12-03			
		Sucan		lost		7 Core	76224569	Pending
28760533		Susan		lost	12-03 2022- 12-01	Z Core	76334568	Pending
		Susan		lost	2022-	Z Core Library	76334568 56703014	Pending Pending

		Adm	inistratoı	r Sys	tem			
View List of	Registered Users	View List of Pend	ling Notices View	List of Co	ompleted I	Notices Sy	stem Statist	ics Logout
Comple	eted Not	ices Table	<u> </u>					
	ll completed noti UserID of replier		Nickname of replier	Туре	Date	Venue	Contact	State

If the administrator would like to view a statistical chart of all notices by age, he/she can click on "System Statistics" above to access the chart page.



User Interface

I use Bootstrap to layout and decorate the page and set up user validation.