# EIE4432 WEB SYSTEMS AND TECHNOLOGIES Individual Project Online lost-and-found system

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# 1. Function Specification

Functions	
	or not
User registration with user id, nick name, email, profile image, gender, and	Yes
birthday	
Users update personal information, including nick name, email and profile	Yes
image	
Users login with user id and password	Yes
The admin uses default id "admin" and password "adminpass" to login in	Yes
Users reset password with user id, email and birthday	Yes
Remember login status using cookie	Yes
Users logout and delete cookie	Yes
Users creates a notice with the following information: type (lost/found), date,	Yes
venue, contact, description, and image	
Users view a list page of all pending notices in the system. Each notice has	Yes
"respond" and "view" buttons	
Users view a list page of all notices that are created or responded by the user	Yes
Users respond to a notice by sending a message in the textbox to the owner	
of the notice. The notice will be marked as completed	
Admin views a list page of all registered users in the ascending order of users'	Yes
nick name, showing the number of notices each user created and responded,	
respectively.	
Admin views two list pages of all pending or completed notices in the system	Yes
Admin views a list page of all pending or completed notices in the system	Yes
created by a user, specified by the user id	
Admin uses a chart to show the statistics of the number of notices in different	Yes
age ranges among users	

## 2. Database Design

#### **Entity Relationship Diagram:**

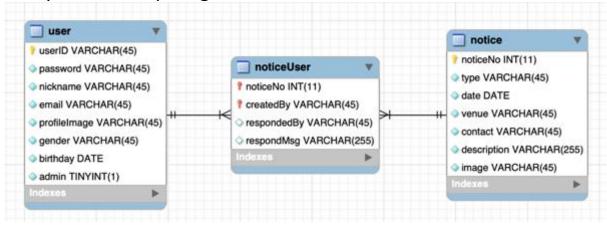


Table `user` is used to store the personal information of the users.

Table 'notice' is used to store the details of the notices.

Table `noticeUser` is used to store the relationships between the users and the notices, more specifically, it stores the user who created the notice and the user who responded to it. Also, it stores the responded message.

#### Table `user`

Column Name	Description
userID (PK)	It is the primary key that identify the specific user.
password	It is the field to store the password of user.
nickname	It is the field to store the nickname of user.
email	It is the field to store the email of user.
profileImage	It is the field to store the profile image of user.
gender	It is the field to store the gender of user.
birthday	It is the field to store the birthday of user.
admin	It is the field to store the role of user.
	0 is for user, 1 is for admin. The default value is 0.

### Table `notice`

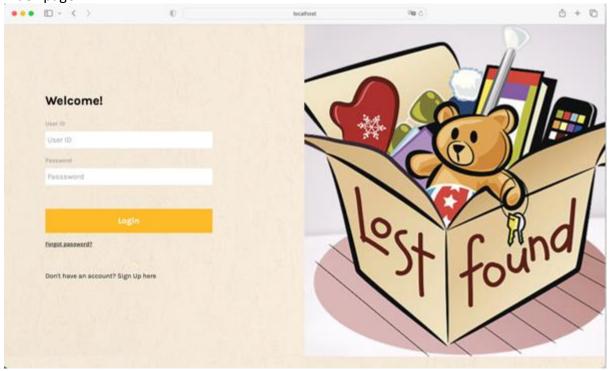
Column Name	Description
noticeNo (PK)	It is the auto-increment primary key that identify the specific notice.
type	It is the field to store the type (either lost or found) of notice.
date	It is the field to store the date when the user lost or found the item.
venue	It is the field to store the venue where the user lost or found the item.
contact	It is the field to store the contact info of the user who created the item.
description	It is the field to store the description of item.
image	It is the field to store the image of item.

### Table `noticeUser`

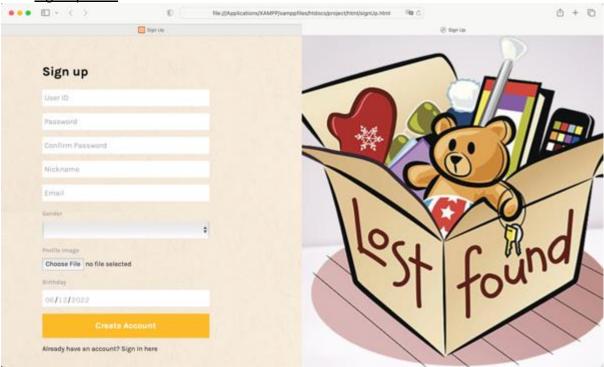
Column Name	Description
noticeNo (PK)	It is the composite primary key (noticeNo + createdBy) that identify the
	specific relationship between the user and the notice (created or
	responded to).
	It is the foreign key that refers to the noticeNo in table `notice`.
createdBy (PK)	It is the composite primary key (noticeNo + createdBy) that identify the
	specific relationship between the user and the notice (created or
	responded to).
	It is the foreign key that refers to the userID in table `user`.
respondedBy	It is the field to store the user who responded to the notice.
	It can be null.
	If it is not null, the notice is a completed notice.
respondMsg	It is the field to store the responded message.
	It can be null.

## 3. Demonstrate all functions

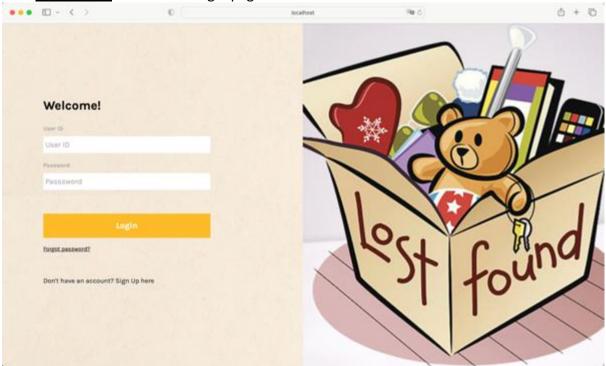
Index page:



Click Sign Up here:



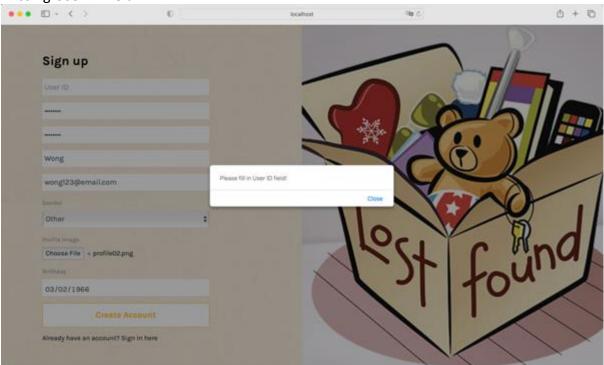
#### Click <u>Sign in here</u> to return to login page:



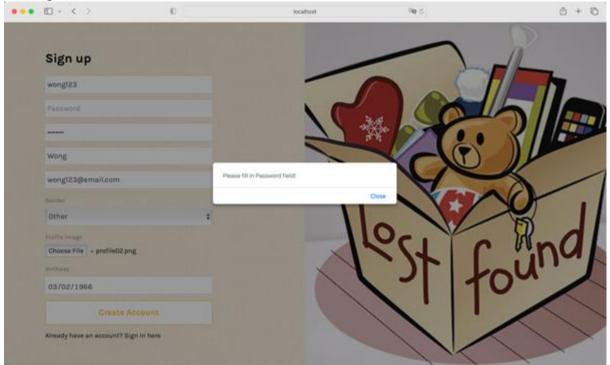
#### Sign up

To create an account, you need to fill in all the information fields. The data you have entered will be verified. A pop-up notification will appear if there is an error

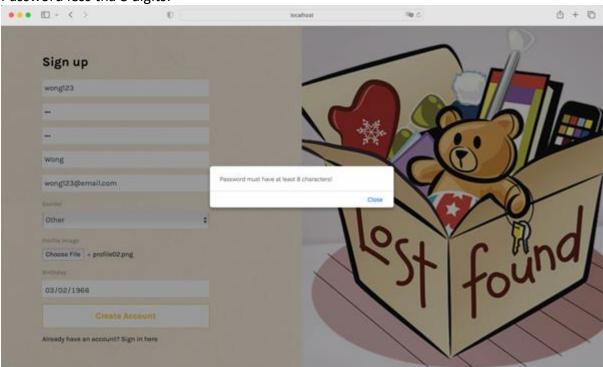
#### Missing User ID field:



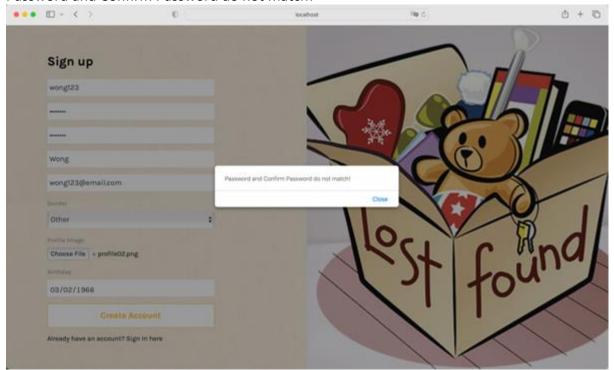
#### Missing Password field:



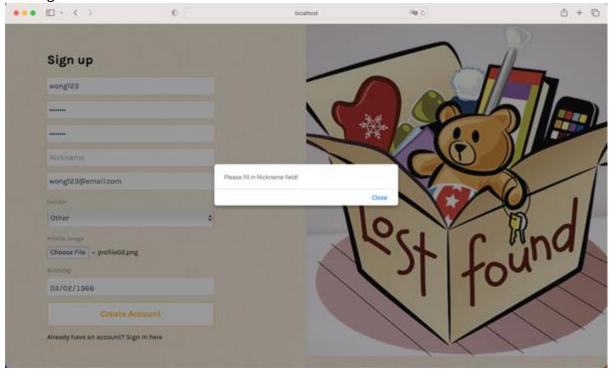
#### Password less tha 8 digits:



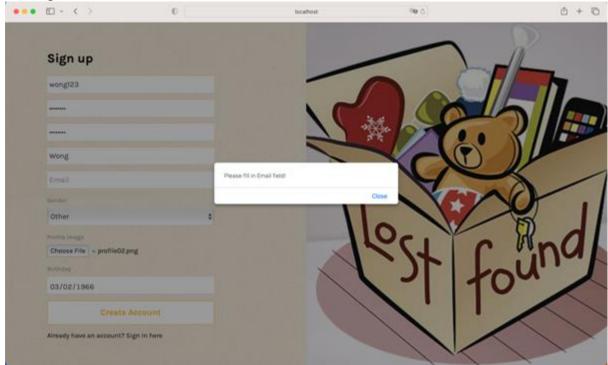
#### Password and Confirm Password do not match:



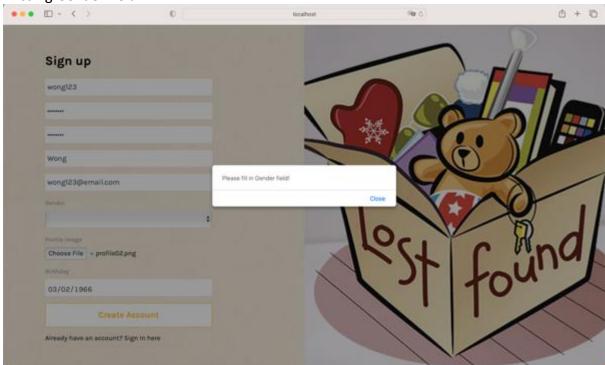
#### Missing Nickname field:



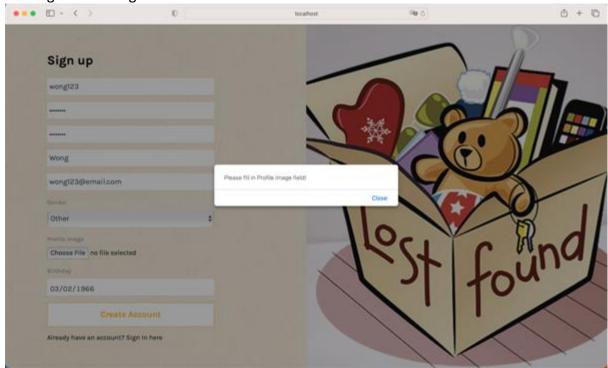
#### Missing Email field:



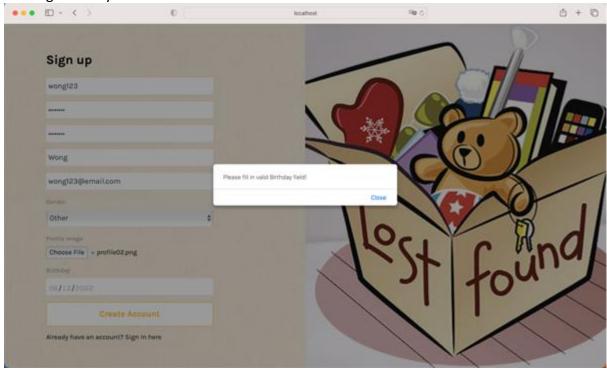
#### Missing Gender field:



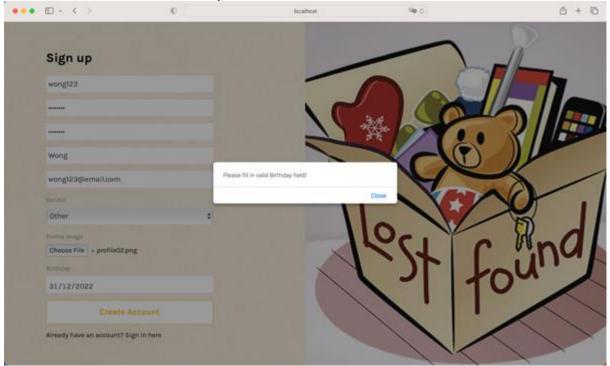
#### Missing Profile Image field:



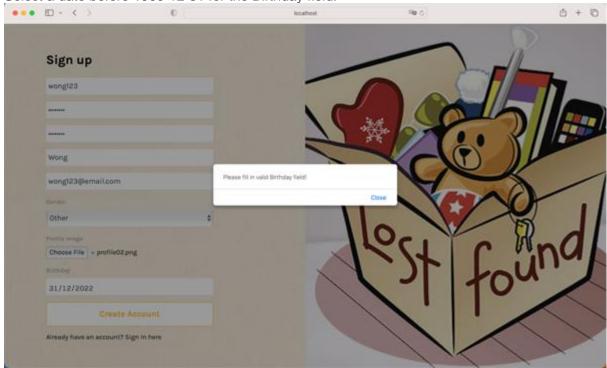
#### Missing Birthday field:



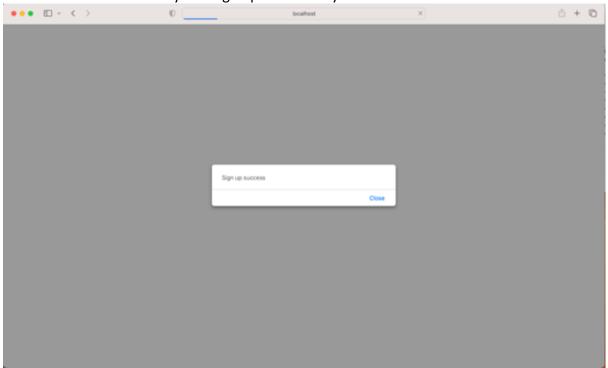
### Select a future date for the Birthday field:



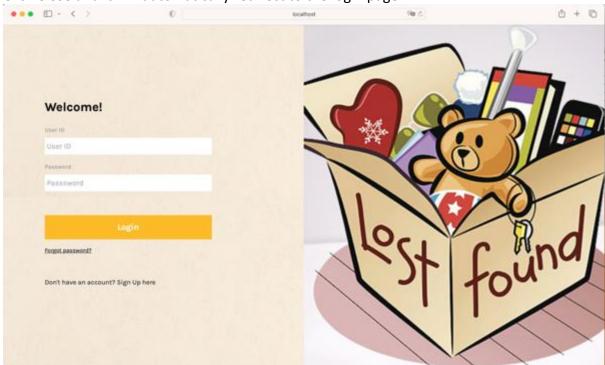
Select a date before 1900-12-31 for the Birthday field:



Fill in all the fields correctly and sign up successfully:

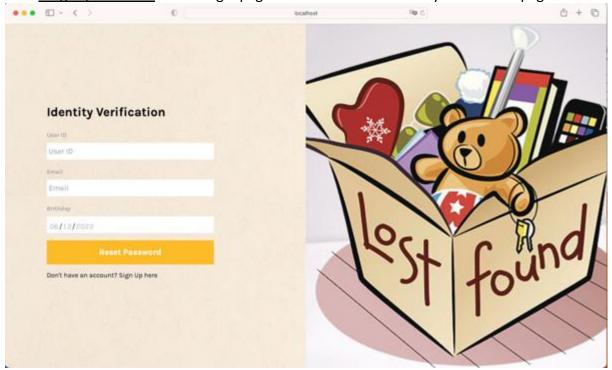


Click Close and it will automatically redirect to the login page:

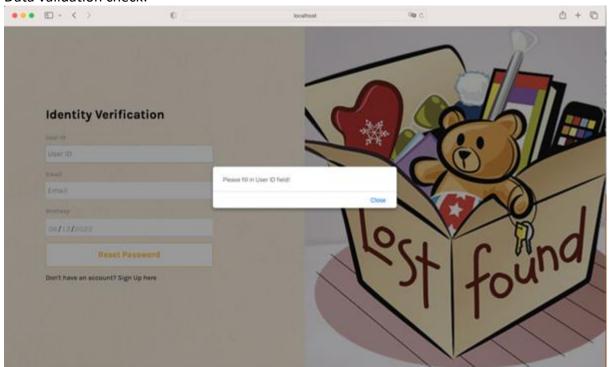


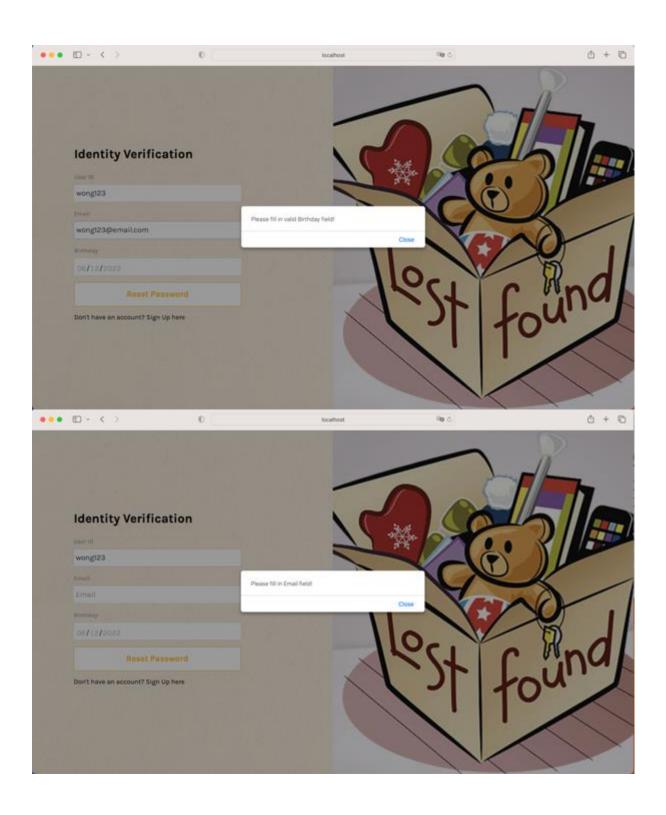
#### Forgot and reset password

Click Forgot password? on the login page to redirect to the identity verification page:

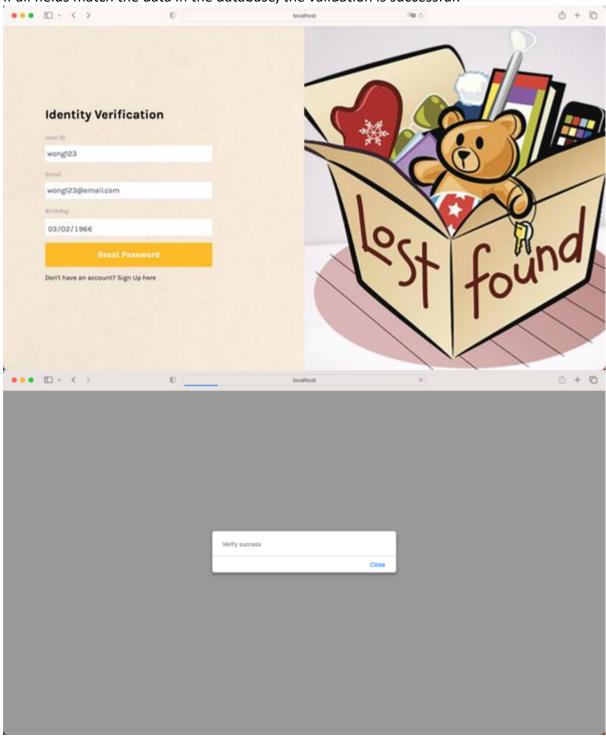


#### Data validation check:

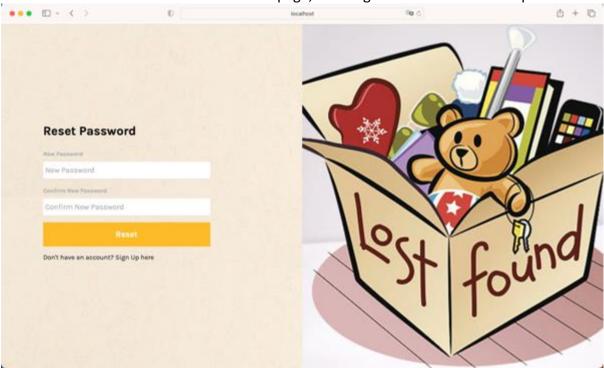




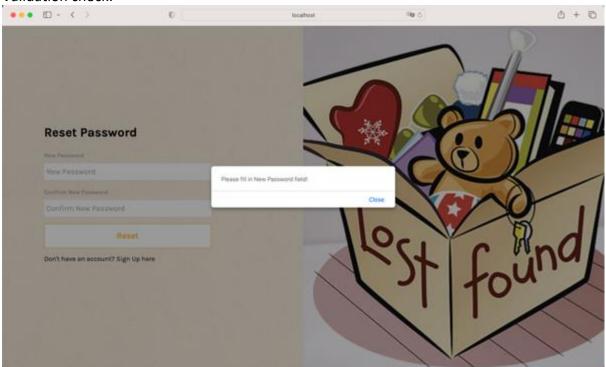
If all fields match the data in the database, the validation is successful:

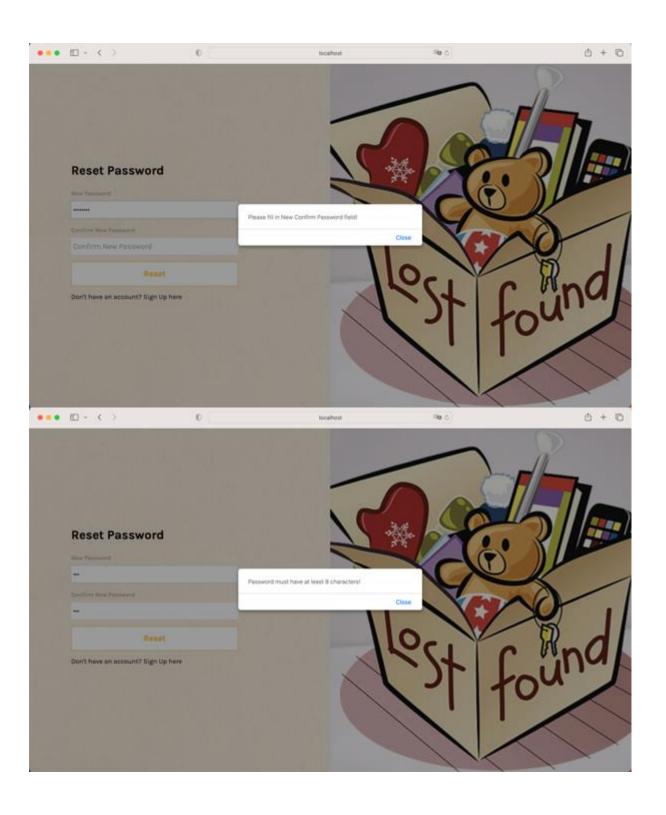


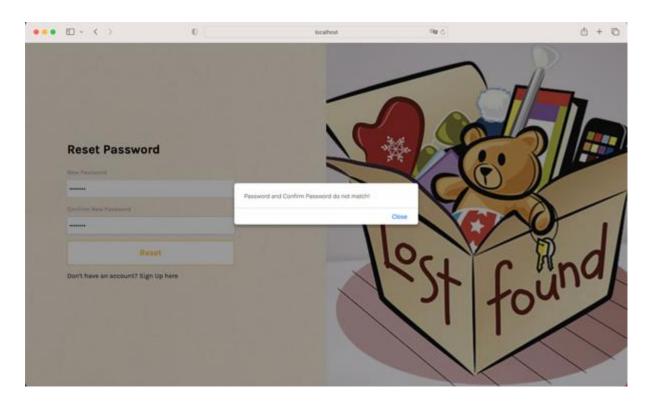
It will then redirect to the Reset Password page, allowing the user to reset their password:



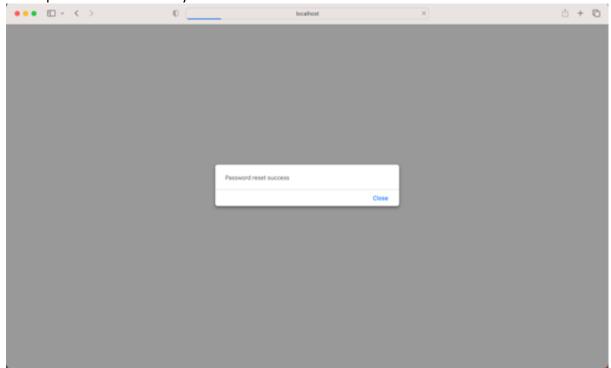
#### Validation check:





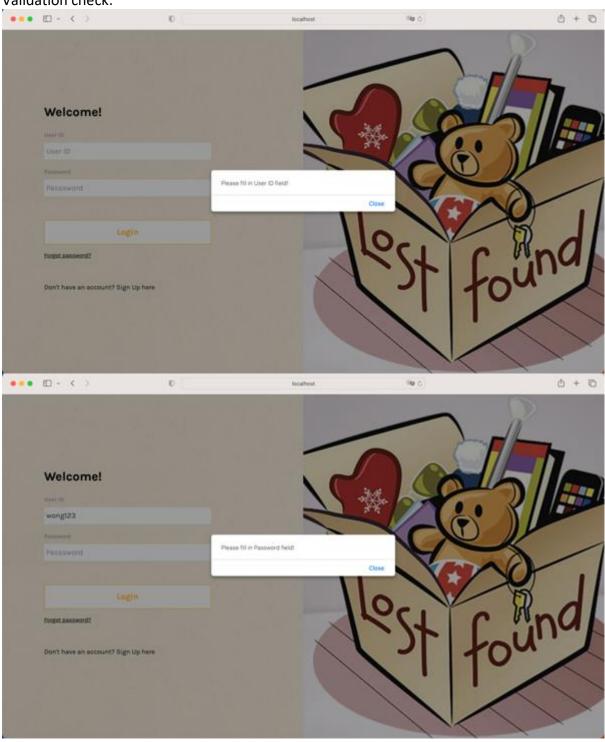


Reset password successfully:

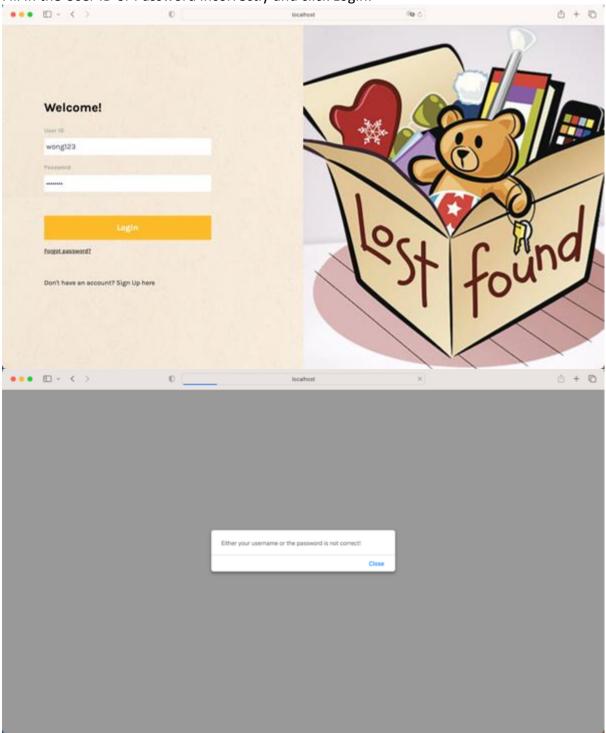


#### **Login**

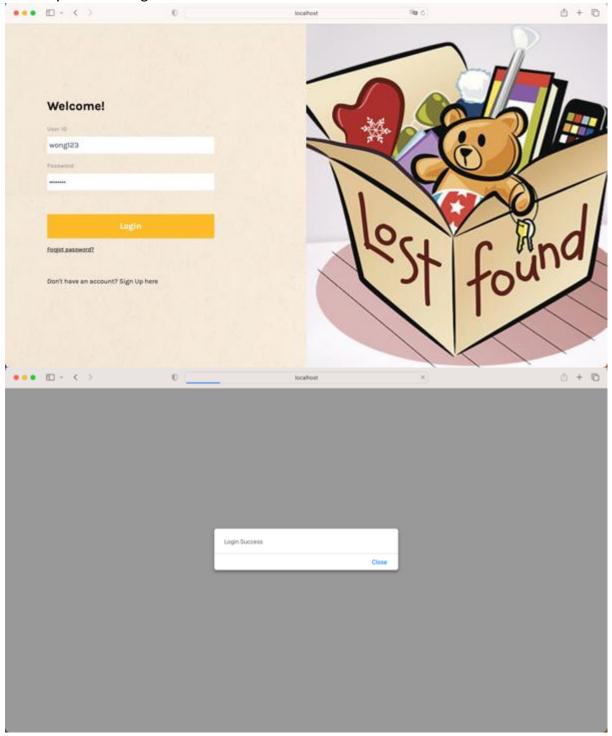
#### Validation check:



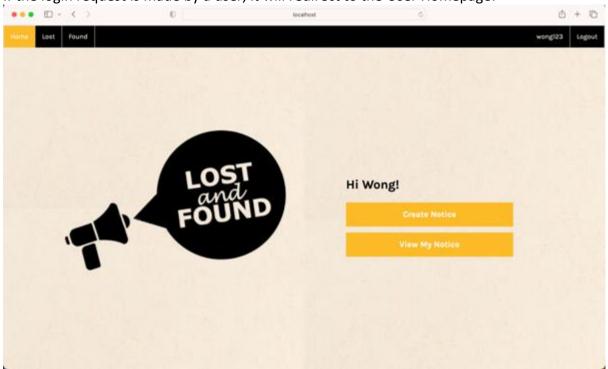
Fill in the User ID or Password incorrectly and click Login:



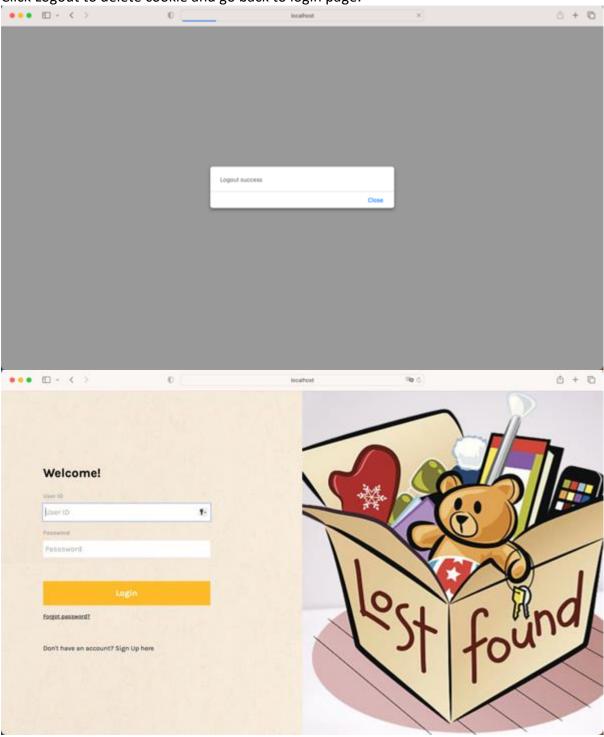
Click Close and it will automatically redirect to the login page. Fill in the User ID or Password correctly and click Login:



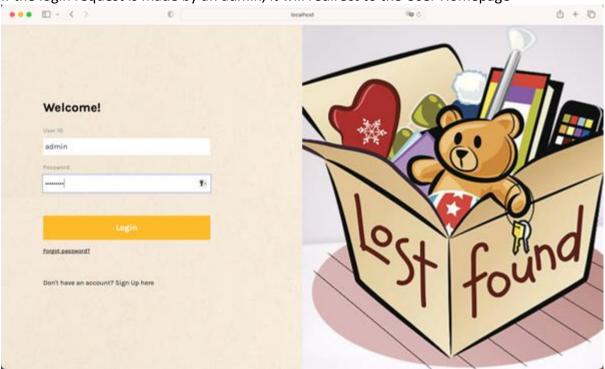
If the login request is made by a user, it will redirect to the User Homepage:

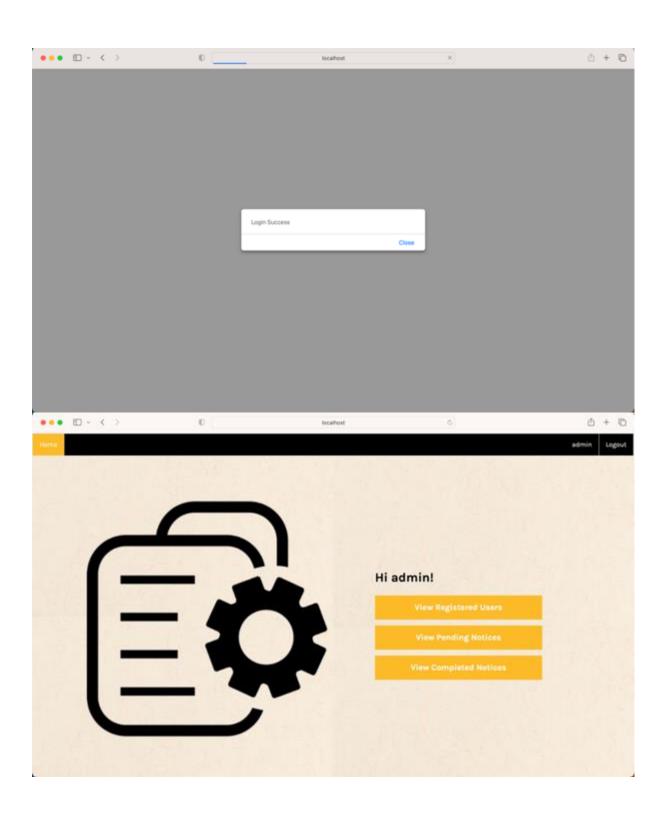


Click Logout to delete cookie and go back to login page:

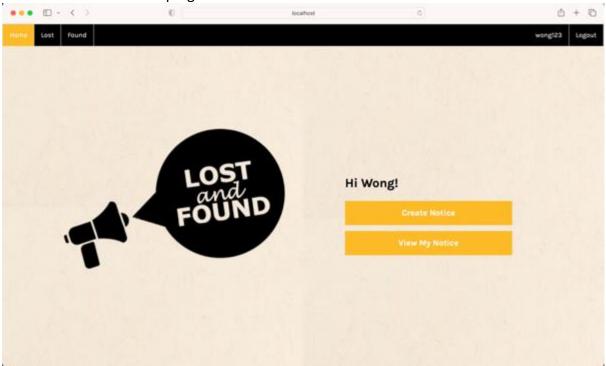


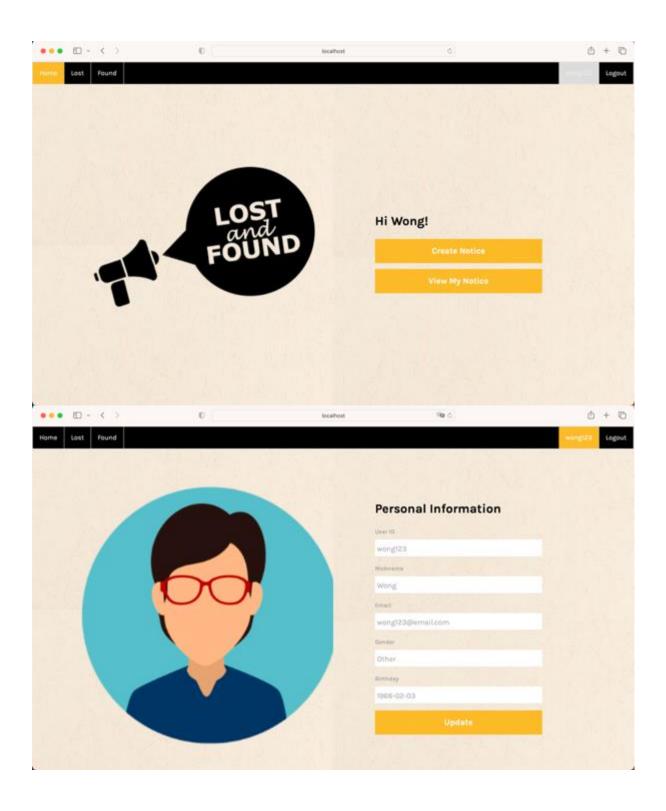
If the login request is made by an admin, it will redirect to the User Homepage



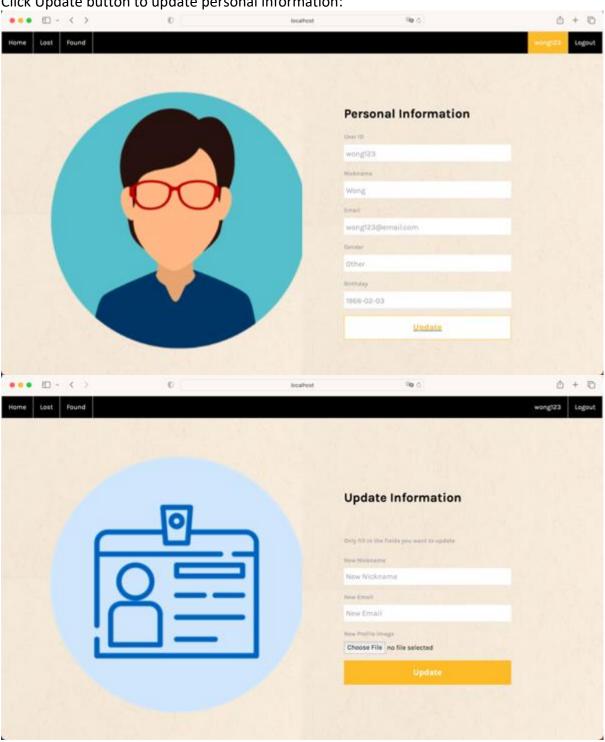


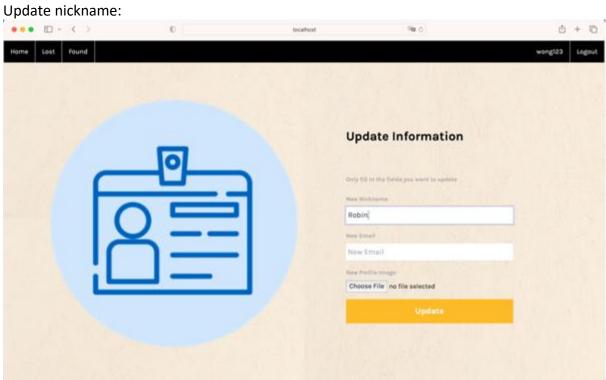
Update personal information
Click the user ID at the top right hand corner:

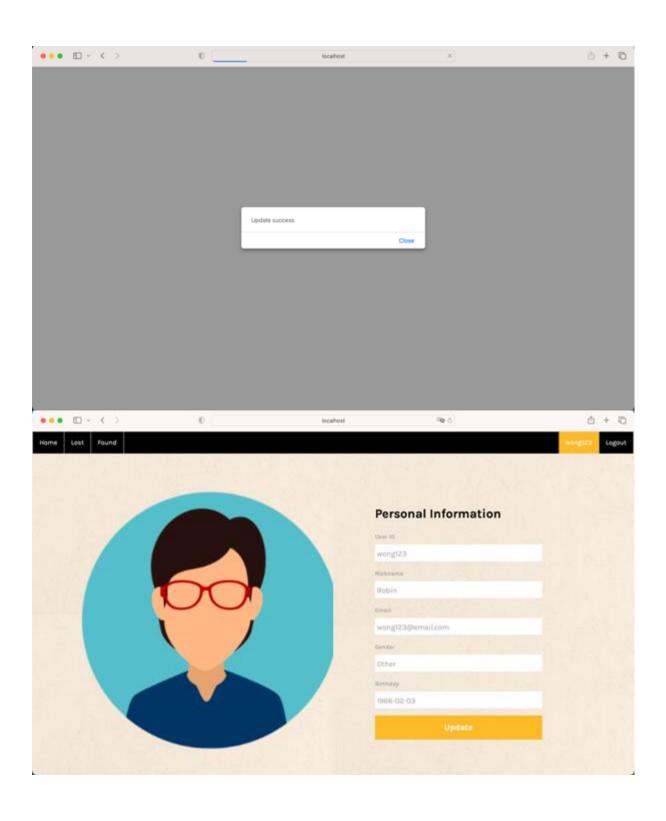


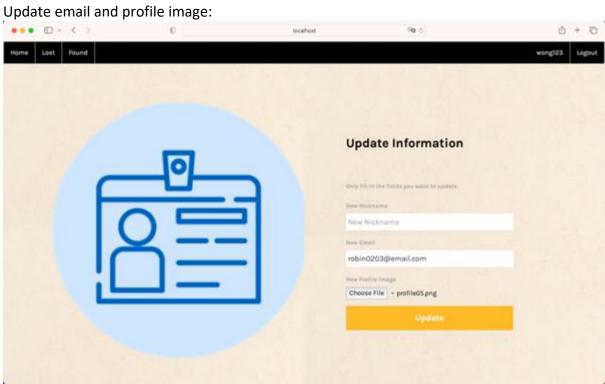


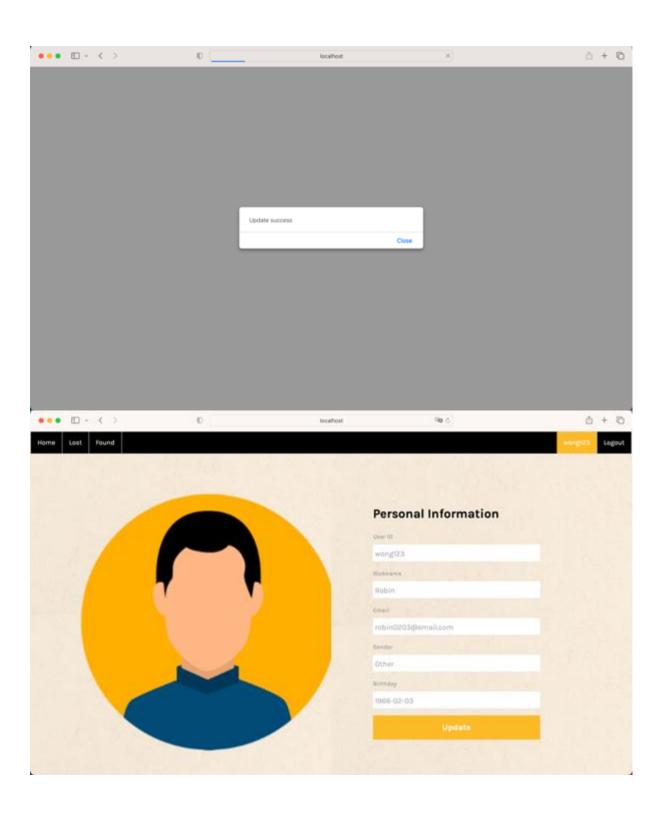
#### Click Update button to update personal information:







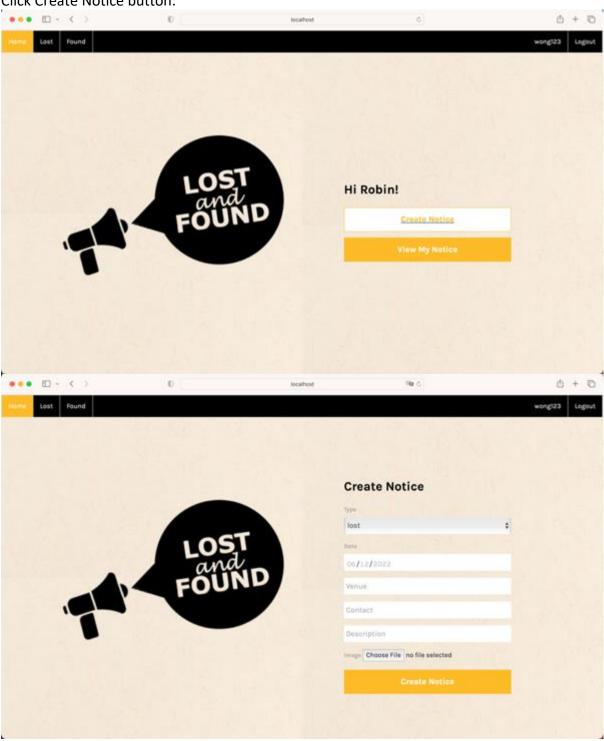




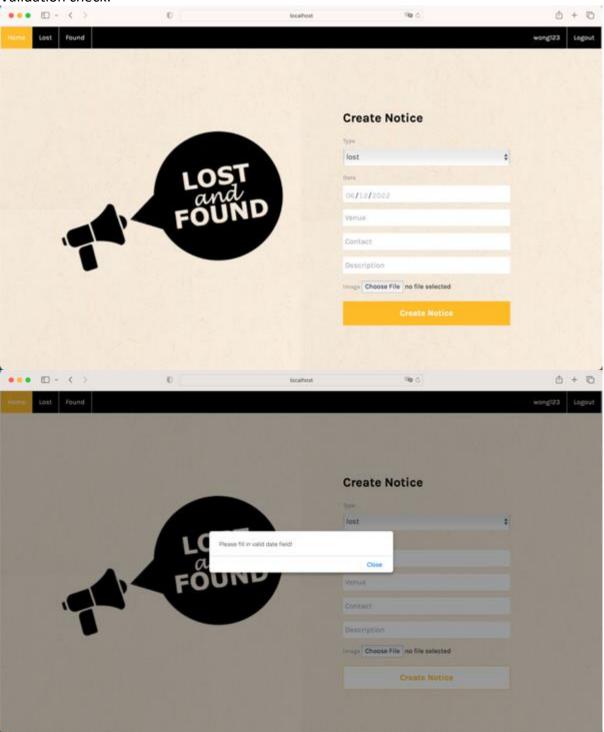
## **User operations**

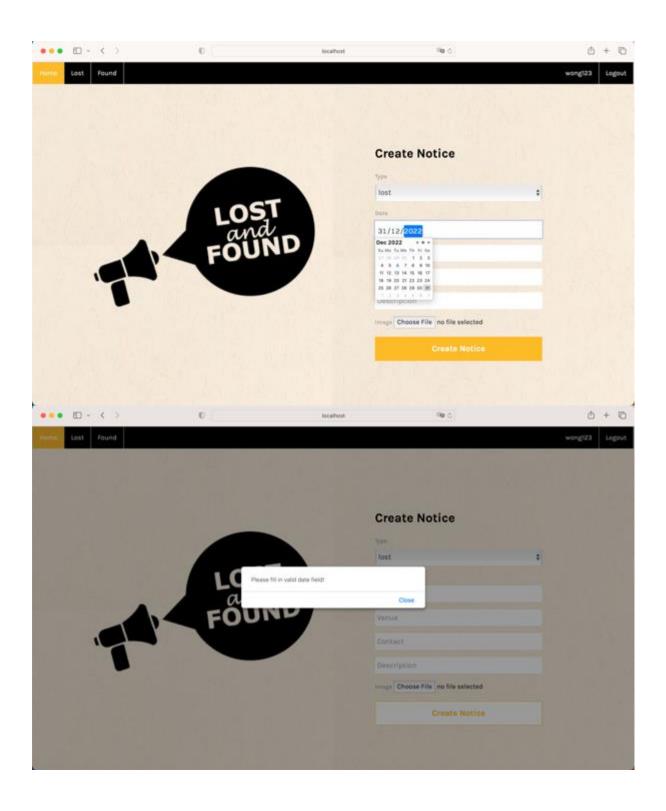
#### **Create notice**

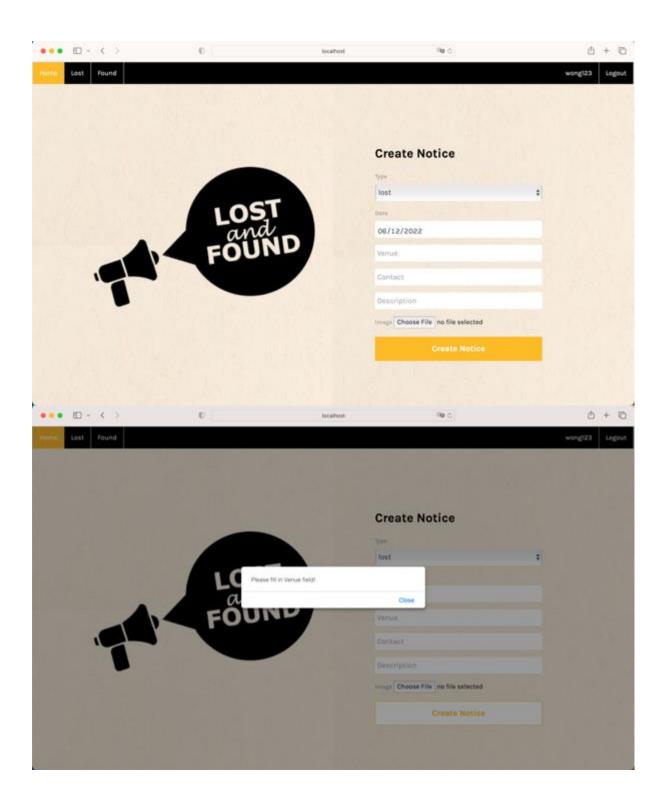
Click Create Notice button:

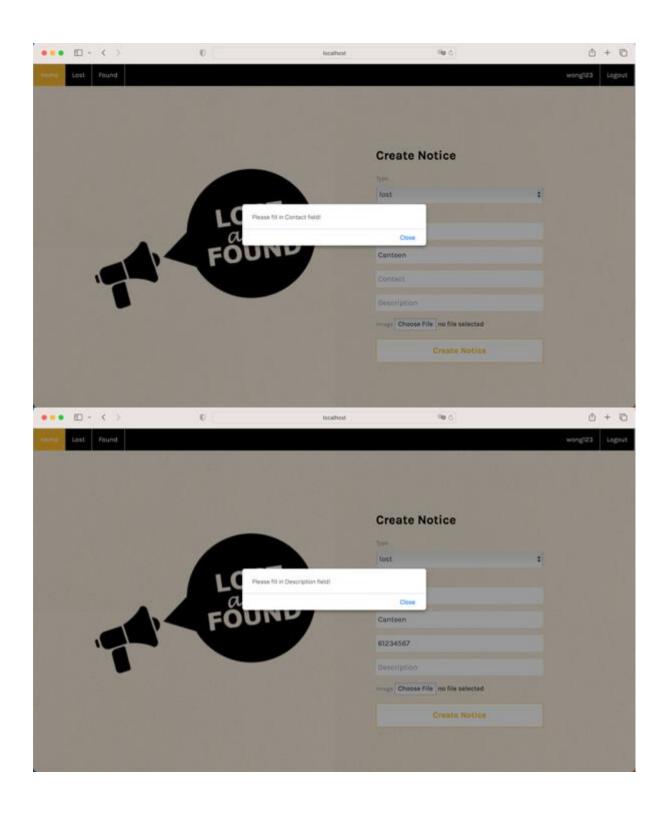


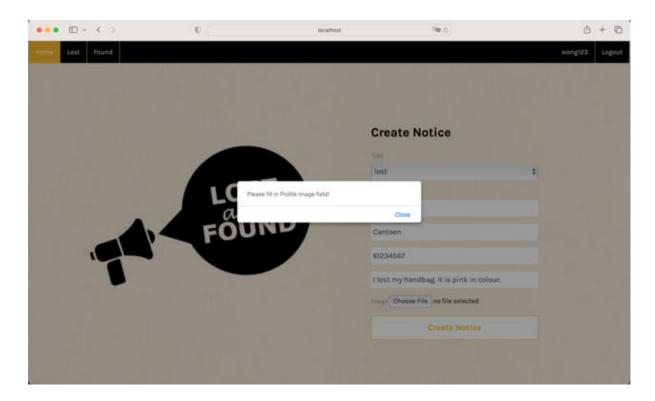
#### Validation check:



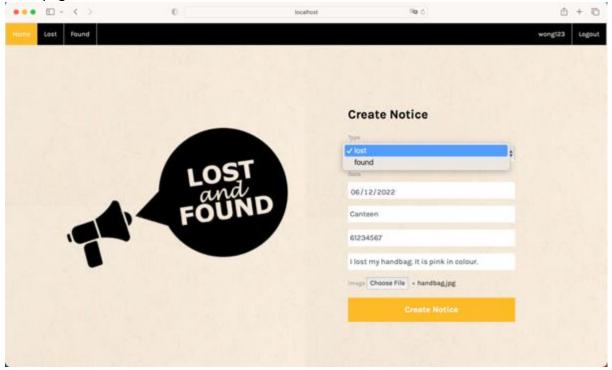


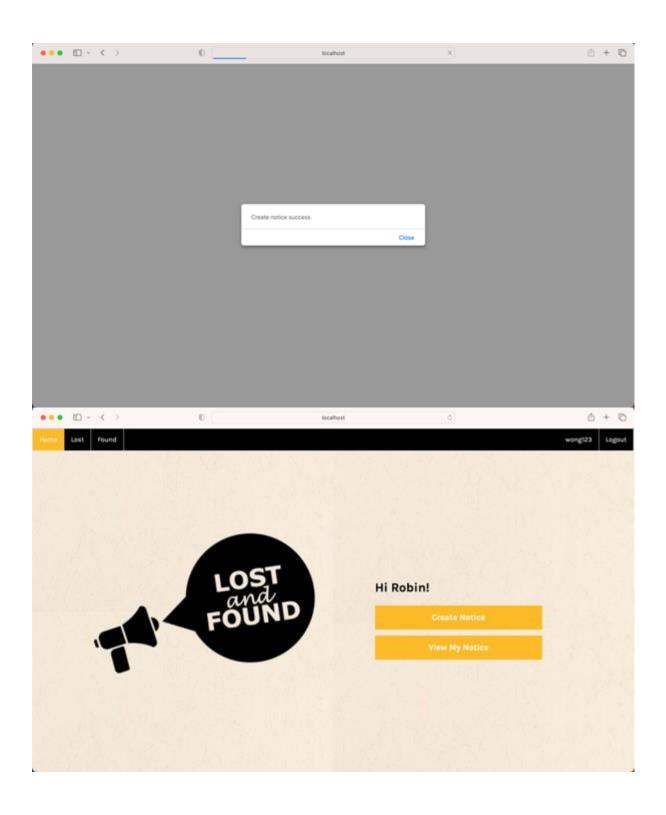


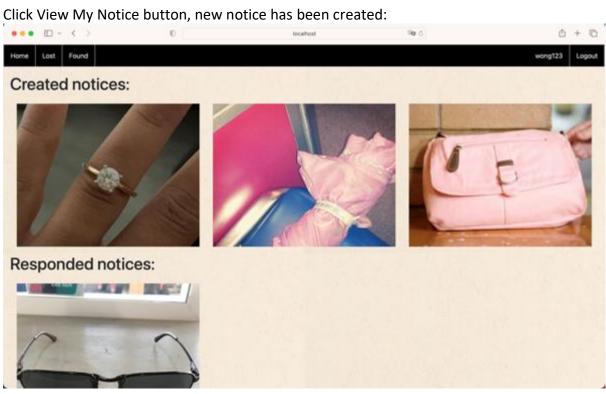




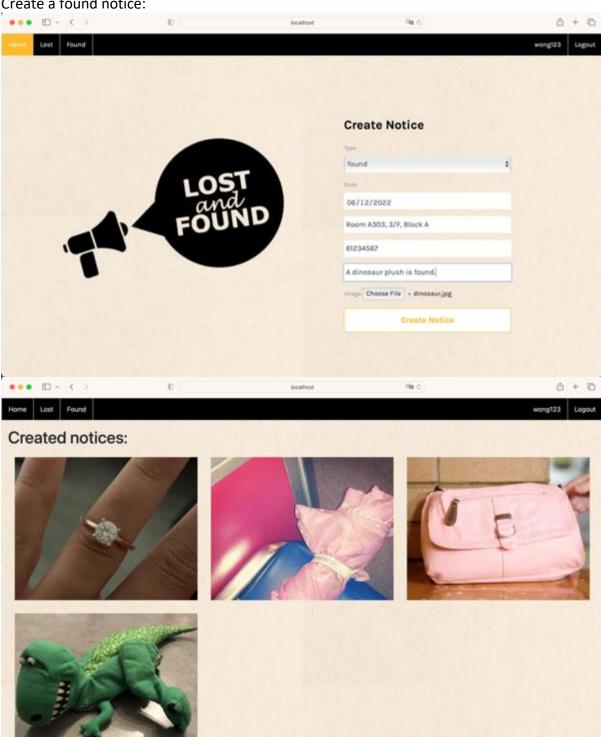
Select notice type, fill in all fields and click Create Notice button. It will then return to user homepage:







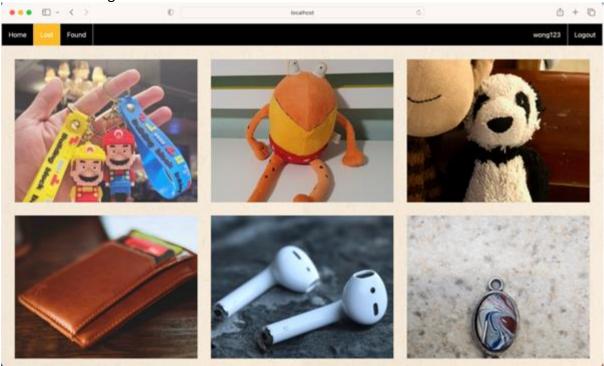
#### Create a found notice:



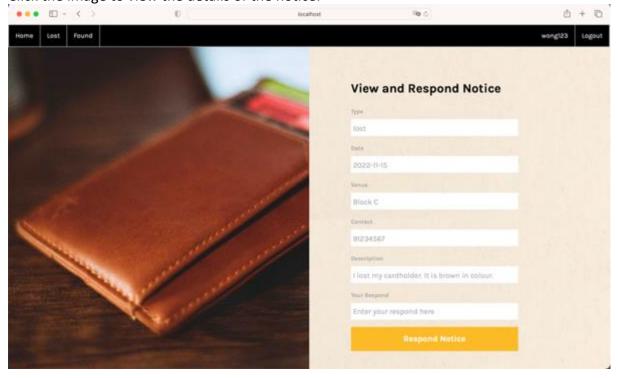
### View and respond to notice:

#### **Lost Notice:**

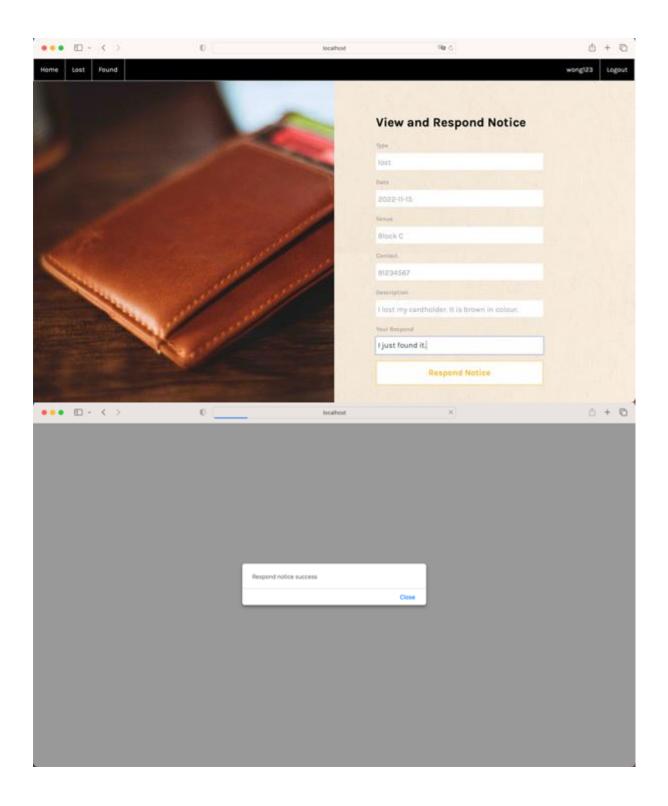
Click Lost in navigation bar:



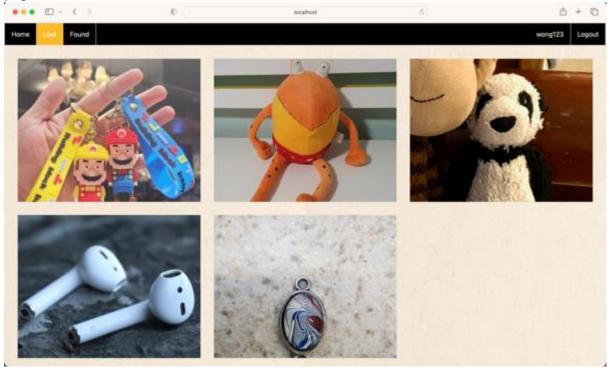
Click the image to view the details of the notice:



If you would like to respond to this notice, enter your response and click the Respond Notice button:

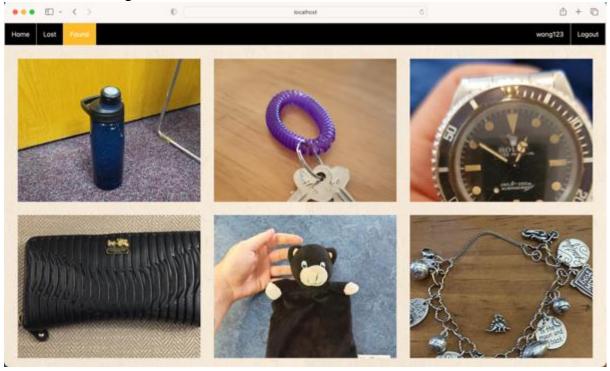


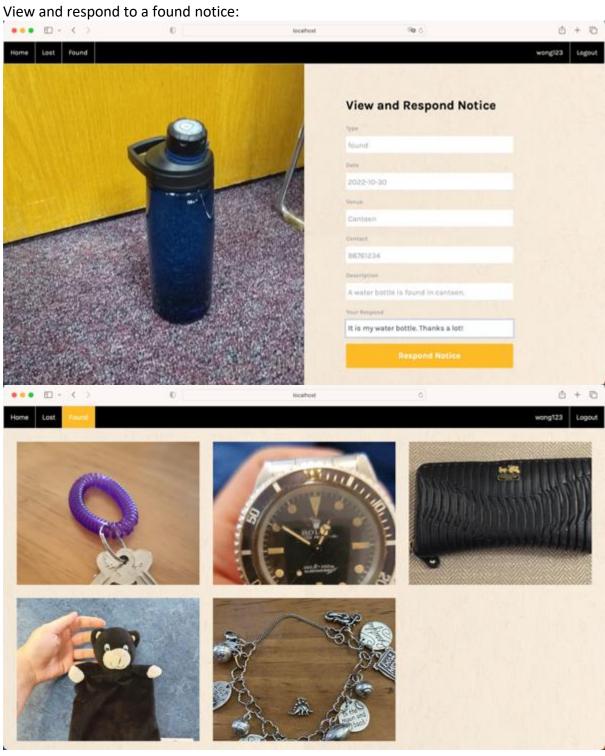
Since this notice has become a completed notice, it would no longer be displayed in Lost page:



### **Found Notice**

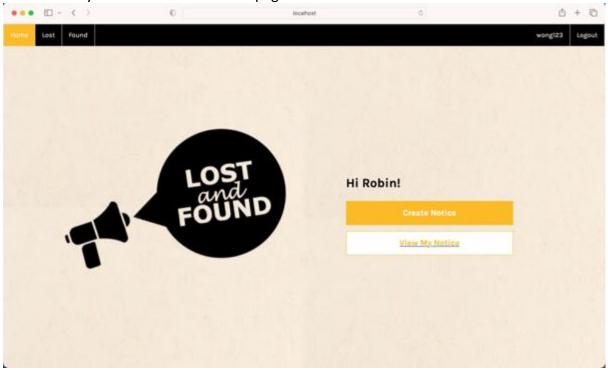
Click Found in navigation bar:



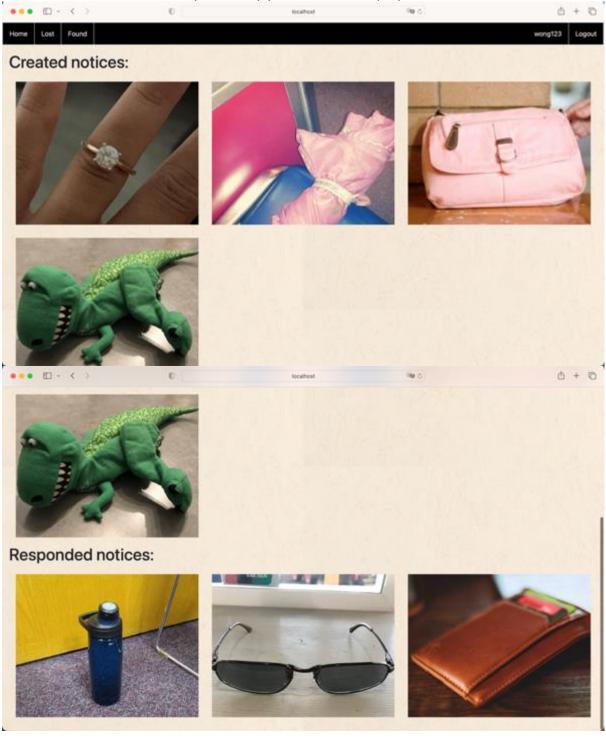


### **View my notices**

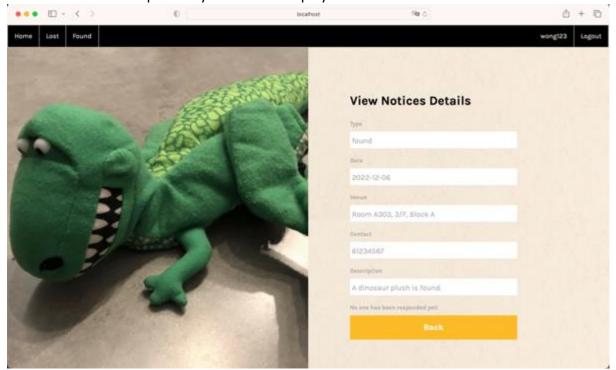
Click View My Notices button on homepage:



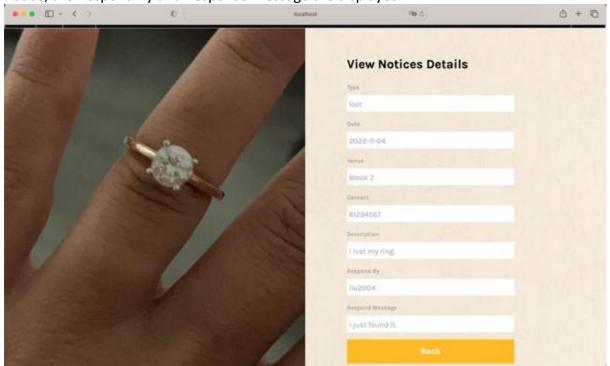
All notices that created or responded by you would be displayed:



Click the image to view details of notice. If there is no response to this notice, a message "No one has been responded yet!" will be displayed above the back button:



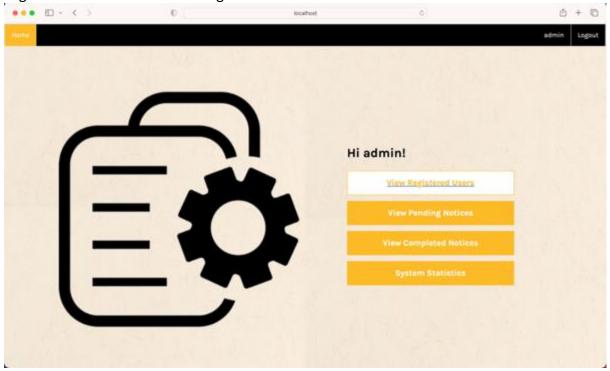
Click the Back button and select another notice. Since someone has responded to this notice, the Respond By and Response Message are displayed:



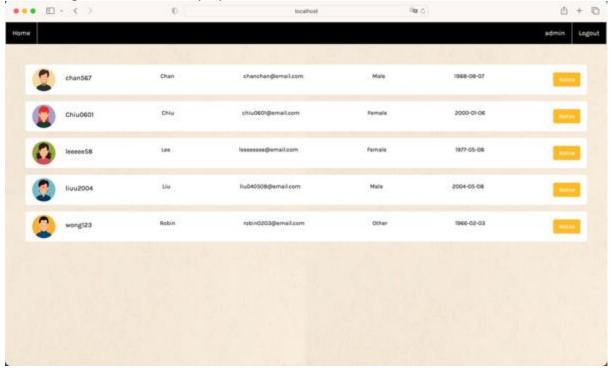
# **Admin operations**

## **View list of registered users:**

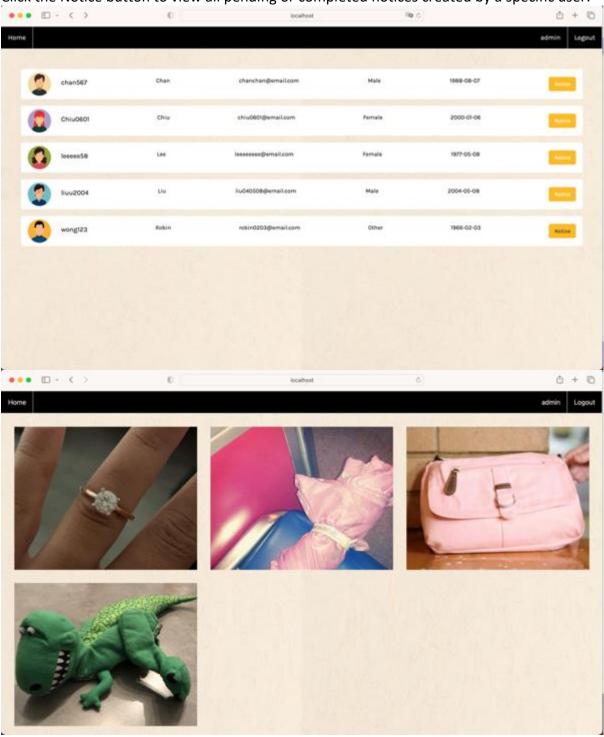
Login as admin and click View Registered Users button:



A list of registered users is displayed:



Click the Notice button to view all pending or completed notices created by a specific user:



Click the image to view the details of the notice: · · · · · · · · · · 0 + 0 **View Notices Details** Wongt23 Sper lost 2022-11-04 Block 2 61234567 float my ring Huu2004 Respond House, I just found it. **View Notices Details** Wong123 found Date 2022-11-05 Room AIOS, 1/F, Block A

61234567

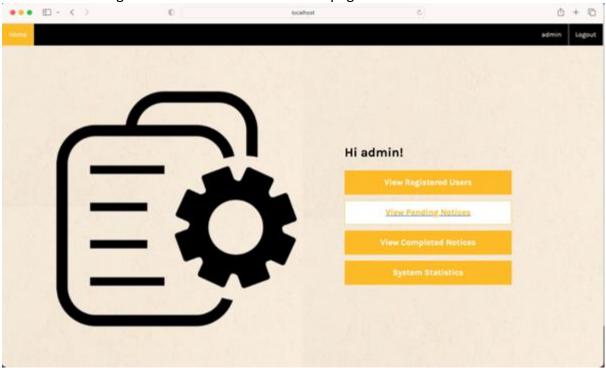
An umbrella is found.

He are has been respended yet.

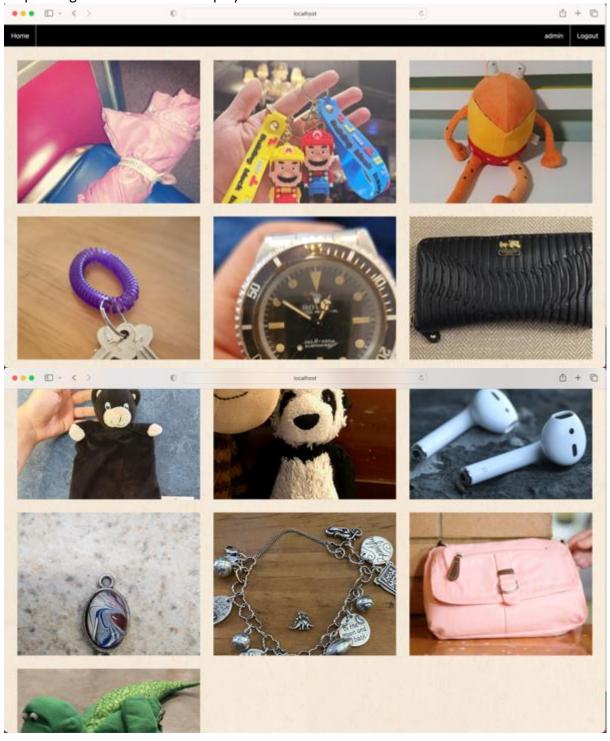
# View list of pending/completed notices

## View pending notices

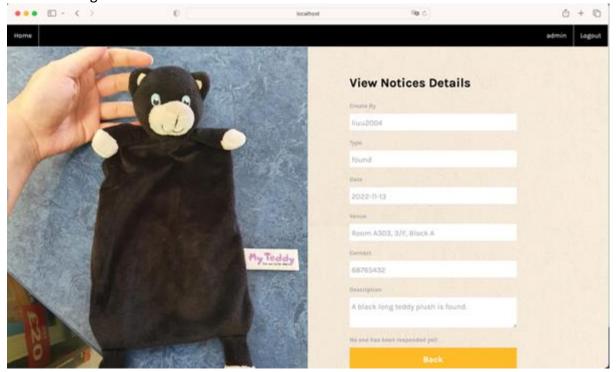
Click View Pending Notices button on admin homepage:



# All pending notices would be displayed:

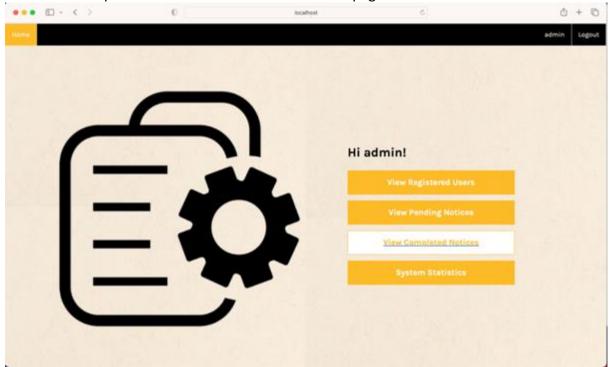


Click the image to view the details of the notices:

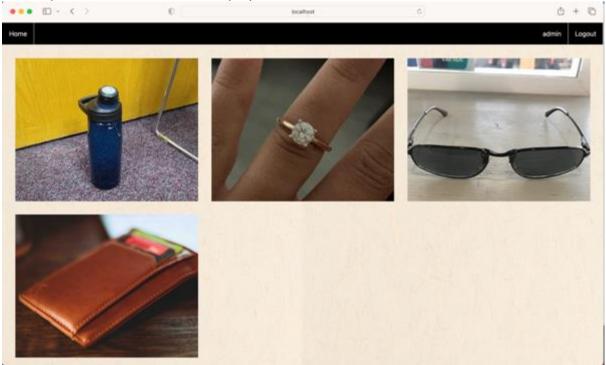


#### **View completed notices**

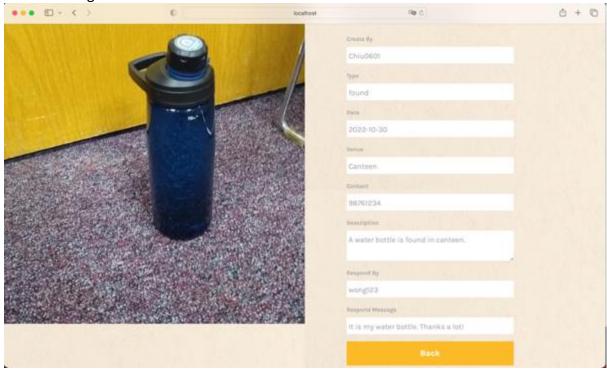
Click View Completed Notices button on admin homepage:



### All completed notices would be displayed:

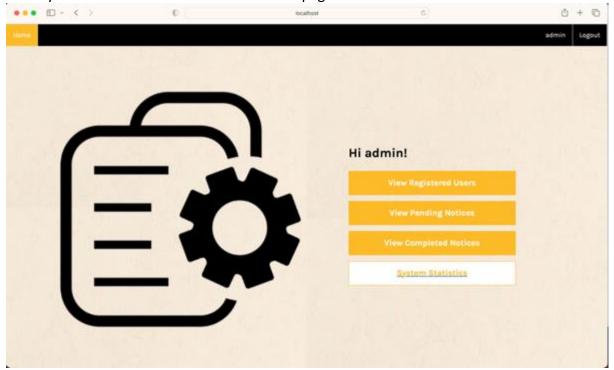


### Click the image to view the details of the notices:



## **System statistics**

Click System Statistics button on admin homepage:



A chart is displayed to show the statistics if the number of notices in different age ranges:

