HORNETS HIVES

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A SOCIAL MEDIA WEB- BASED APPLICATION PROJECT

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TITLE AND LOGO

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INTRODUCTION

Why Hornets Hives?

Cavite State University's students are mainly known as hornets—this product's name is mainly influenced by it. This web application, Hornets Hive, from the word hive itself from a beehive: is a space where subjects are engrossed in an activity. In this expanse, people can link with each other like any social media application does. However, this application is exclusive for CvSU's students and for CvSU's students only.

Significance of Hornets Hives

The transition from college to career includes many challenges, such as adjusting to a professional environment, the high costs of student loan repayment and independent living, and changes in social support networks. Many of these challenges affect a young person's emotional wellbeing; however, limited attention has been paid in the literature or at the practice level to the emotional wellbeing of college graduates as they transition from college to career. (L Golden, J Moser, A Vella-Riplee, 2020) Therefore, due to responsibilities given for adaption of late adolescence to early adulthood, college students are prone to stress considering that they're about to be involved in a whole new environment—this, however, are not offered much emphasis on account of expectation that lies on their hands by themselves and loved ones.

The way in which a person perceives stress is an important factor in how they handle their stress. When students fail to understand it, it can become more difficult to cope with stress. In Dexter et al. (2018) study, students agreed most commonly with the statement "creating better health in one area of my life spills in to other areas of my life" when asked to respond to statements about their perceptions' of stressing their lives (p.3). Stress and lack of coping mechanisms create a problem with college students that may be detrimental to their success and overall health. This is experienced when a college student is overwhelmed with stress and they do not properly deal with it. This may be from lack of knowledge or pure inability to cope because the amount of stress may be debilitating. People who are socially integrated and have strong social ties live happier, longer lives. The link between social connection and well-being is commonly

explained in terms of the benefits of receiving care and support from others.

Accordingly, Hornet's Hive will provide a freedom wall where students can engage socially and reach out with their fellow students. This can help regulate their emotions be it negative or positive by sharing ideas, perception, and muses. By delivering messages, it evaluates and enhances communication skills towards people they have in the same school to effectively communicate issues, recommendations, opinions and feedbacks—this can lessen the potential conflict and will raise the chances of better stress management for students during the school year.

The role played by social support in postgraduate taught students' adjustment to university, and how social media contributes to this support. Thematic analysis indicated that participants benefitted most from specialised support from peers dealing with similar academic challenges (CJ McLaughlin, E Sillence, 2018). Furthermore, people are increasingly using social media platforms in order to inform others about their mental states, solicit social support, as well as keep records of their daily activities, preferences, and interests. In this application, a freedom wall provided solely for CvSU's students will benefit the understanding between students regarding issues, events, and emotional stress given that they share similar academic concerns for they're under the same university and management. Hornets Hives purpose is significantly for better management in: academic stress, events, issues, and concerns.

Having a relation and connection with people you're in the same space and interest builds unity, and unity creates harmony. My application is helpful for survival as per college students tend to carry the stress with the shift to adulting and for their future—with this, it can lessen the baggage for it provides organized information and linking with co-students who can possibly share the same interest as them. They can stand to get the freedom with the negativity and positivity that will radiate throughout their school years.

How to use Hornets Hive?

Hornets Hive is a freedom wall in order for students to express themselves by posting, viewing and messaging. Users can post status and images and comments— and are free to edit or delete their content. It provides search engine for convenience in finding the other users and posts—it makes it easier for the users to look anything relevant in the purpose of this application. For personal communication, users can connect personally through private messaging—it allows user to connect deeply with like-minded students or even friends. For concerns with forgetting, editing personal information, and recovering account, this application provides the secure recovery and management of personal information of the user in order for safe and firm usage in this app. Hornets Hive provides a huge respect with confidentiality of information of individual users with support of privacy act. Furthermore, all of the users are able to see all the posted contents related or unrelated with their interests.

MAIN PAGE
- Information about the website
- Includes:
    1. JOIN (log in and sign up link)
    2. HOME (about website and features)
    3. CONTACT (location)
    4. ABOUT US (review and developer recommendation)

SIGN UP PAGE
- Create an account to be saved in the database and to be able to login.
- Includes:
    1. First Name
    2. Last Name
    3. Password
    4. Email
    5. Country (Drop-down)
    6. Gender (Drop-down)
    7. Birth-date
    8. ALREADY HAVE AN ACCOUNT (redirect you to login page)

LOG IN PAGE

- To be able to log in from the account you must have a created account saved in the database
- Includes:
    1. EMAIL (login using email)
    2. PASSWORD
    3. FORGOT PASSWORD (link / redirect you to another page)
    4. DON'T HAVE AN ACCOUNT (link / redirect you to sign-up page)

FORGOT PASSWORD PAGE

- If you forgot your account password you can access or change it here.
- Includes:
    1. EMAIL (existing email that you forgot your password)
    2. SOMEONE (a question is displayed in the form you must answer)
        a. If you do not turn on the recovery account inside your profile the default answer is : mydefaultrecovery
        b. If you ever turn on the recovery and put something in there then your answer must be the same person name you input inside.

CHANGE PASSWORD PAGE

- After confirming the email and the recovery name in the forgotten password page it will redirect you to change password page.
- Includes:
    1. NEW PASSWORD (input your new password)
    2. RE-ENTER PASSWORD (confirm your new password)

NAVIGATION BAR

- PROFILE NAME (redirect to profile page)
- HOME (home page)
- FIND PEOPLE (redirect to find people page)
- MESSAGES (redirect to messages page)
- LOGOUT (log out / direct to main page)
- SEARCH POST (redirect to the result page)

HOME PAGE

- UPLOAD STATUS AND IMAGE (select image button / post button)
    a. SELECT IMAGE BUTTON / POST BUTTON
        1. If you want to post a picture just simply select the select image button and it will redirect you to your files.
        2. After choosing an image to upload you will notice that the picture you choose is not displayed, but no worry it was actually hold in that area unless you click post button.
        3. You can add status with image in it then click post button or you can just status something without image.
- POSTS
    a. When a user post something, it will automatically add on the newsfeed of the home page and everyone can view their posts and comment.
    b. If you click the username in a certain post it will redirect you to their profile, inside you will see their other posts and basic information about them along with their cover and profile photo.
- COMMENT
    a. If you click comment in any post in the home page it will redirect you to a View Post Page.
    b. Inside you can comment anything on the post, after commenting the user name and the date you commented will be displayed along the post.
- PAGINATION
    a. If a post on the news feed reach a 4 post a pagination will activate where you can see the old post by clicking the numbers below or by clicking the Last Page Button and if you want to go back just simply click the First Page Button to see the latest posts.
- SIDE NAVIGATION (find new people)
    a. A display of all the user of the system are displayed in the right side of the screen.
    b. Just like a suggestion of people who might you know?
    c. You can click their name to see their profile.

PROFILE PAGE

- CHANGE BUTTON
    a. SELECT COVER AND UPDATE COVER, select cover photo in your file, after choosing a photo you might notice that it's not taken an effect yet on your cover photo, you must click the CHANGE BUTTON again then click UPDATE COVER to update and take effect the photo you've choose.
    b. SELECT PROFILE AND UPDATE PROFILE, select profile photo in your file, after choosing a photo you might notice that it's not taken an effect yet on your profile photo, you must click the CHANGE BUTTON again then click UPDATE PROFILE to update and take effect the photo you've choose.
- YOUR POSTS
    a. You can see all your posts here in profile page.
    b. You can VIEW your profile and it will redirect you to VIEW POSTS and you will see your own posts and can view other user comments.
    c. You can EDIT you post by clicking the button.
    d. You can DELETE your post and the comments associated within.
- EDIT PROFILE
    a. can change the following: then click UPDATE BUTTON
        - first name
        - last name
        - username
        - description
        - relationship status
        - password
        - country
        - gender
        - birthdate
    b. forgotten password (TURN ON) button:
        1. After clicking the turn on button, a pop-up form will appear and ask you a question.
        2. You must remember what person name you input inside to be able to use the recovery account.
        3. Click submit after writing your recovery name or Close if you don't want to put anything.

FIND PEOPLE

- SEARCH AREA AND BUTTON
    a. Inside the FIND PEOPLE PAGE you can view all the users of the social media website.
    b. You can search a specific people name or username in the search area to display a specific user.

MESSAGES

- You can view all the users in the left side of the screen by clicking one of them you can message them.
- You can also view at the right corner the basic information of the user you click on the left side.
- Type anything in the text area then click SEND BUTTON to send a message.

LOGOUT

- Log you out or redirect you to the main page.

SEARCH POSTS

- You can search a certain posts from the user.
- Just type a word that are related to a post in the SEARCH POST area then click SEARCH BUTTON.
- It will redirect you to RESULT PAGE where you can see all the related post you search.

DATABASE FLOW

Database and Tables

SOCIAL_NETWORK (Database Name)

- tables
    1. users
    2. posts
    3. comments
    4. user_messages

USERS

- play a major role in the web system
- contains basic information: (data will be taken from the user in signup)
    1. user_id (primary key)
    2. f_name (first name)
    3. l_name (last name)
    4. user_name (username)
    5. describe_user (description)
    6. Relationship (relationship status)
    7. user_pass (password)
    8. user_email (email)
    9. user_country (country)
    10. user_gender (gender)
    11. user_birthday (birthdate)
    12. user_image (user profile photo)
    13. user_cover (user cover photo)
    14. user_reg_date (date of registration)
    15. posts (check if the user posted something or not by default it was written "no")
    16. recovery_account (recover account)
- Other tables benefits from this part, this is where all the user detail stored.

POSTS

- save post (status/image) by the user
- contains:
    1. post_id (primary key)
    2. user_id (foreign key)
    3. post_content (status in text only)
    4. upload_image (save image file name)
    5. post_date (date posted)
- It records your status post and the uploaded image file name to the database associated with the date you posted it.

COMMENTS

- save comments coming from different user
- contains :
    1. com_id (primary key)
    2. post_id (foreign key)
    3. user_id (user_id)
    4. comment (comment content)
    5. comment author (user profile)
    6. date (commented date)
- Takes the user id from the users table and post id from posts table to identify which specific post and user you commented.
- It save your comment content in the database and view it on the post of the specific user, associated with their username and the date they commented.

USER_MESSAGES

- message process (send and receive message) from other users
- contains:
    1. id (primary key)
    2. user_to (send message (other user))
    3. user_from (reply message (current user))
    4. msg_body (message content)
    5. date (message sent/reply date)
- Takes the user id from the user table to specify which specific person to send a message.

PHP Main Functions

INSERT DATA FROM THE DATABASE ($_POST)

- insert into <tablename><value> (database function to insert data to the database)
- PHP $_POST is a PHP super global variable which is used to collect form data after submitting an HTML form with method="post". $_POST is also widely used to pass variables. Information sent from a form with the POST method is invisible to others and has no limits on the amount of information to send.

GET THE DATA FROM THE DATABASE ($_GET)

- SELECT * FROM <tablename> (display all data from the database)
- SELECT <specific row> FROM <tablename> WHERE <specific row> = <specific data> (display specific data from the database)
- $_GET The $_GET variable is used to get data from a form that is written in HTML. Also in the url $_GET variable will display the data that was taken by the $_GET variable.

DIFFERENCE IN USING GET AND POST

- $_POST : It can catch the data which is sent using POST method.
- $_GET : It can catch the data which is sent using GET method.
- $_REQUEST : It can catch the data which is sent using both POST & GET methods.

STORING OR PRESERVING A DATA ($_SESSION)

- $_SESSION are a simple way to store data for individual users against a unique session ID.
- Used to store variables of the current session. The purpose of the function $_SESSION [] is to store data that you would like to preserve across page loads and to store variables of current session.

HOLDING THE ATTRIBUTE OF FILE BEING UPLOADED ($_FILES)

- $_FILES is a two dimensional associative global array of items which are being uploaded by via HTTP POST method and holds the attributes of files such as: Attribute. Description. [name] Name of file which is uploading.
- It is being used in the database to hold the image file name in uploading an image

posts and changing cover and profile photo.

THE ISSET FUNCTION

- used to check if a variable exists in the code or not. It means we check the value of any particular variable. We use the isset function to check if any variable that is passed, exists in the code and also possess some value.

THE MOVE_UPLOADED_FILE

- Function moves an uploaded file to a new destination.
- If the destination file already exists, it will be overwritten.

THE STRLEN()

- Returns the length of a string.
- It takes a string as a parameter and returns its length

THE QUERY() / MYSQLI_QUERY()

- Performs a query against a database.

THE MYSQLI_FETCH_ARRAY()

- Function is used to fetch rows from database and store them as an array.

Database Connection

POSTS – USERS

- The connection between the posts table and users table is one of the main function that works in our social media web base system.
- The post feature in our system benefits in this connection
- The posts table will connect to the primary key of the users table where all the information regards the user detail is stored. It define who uploaded a certain post that are distinct to other users post.

COMMENTS – POSTS AND COMMENTS - USERS

- The comment feature plays a significant role in this connection.
- To identify which user commented on a certain post, the comments table would have a connection to the primary keys of users table and post table.
- It acts as a location to know who posted it and what post it is.

USER_MESSAGES – USERS

- To have a working messaging system the program must identify which user is replying in a certain message and which user would receive this message.
- The user_messages table connects to the primary key of the users table in which the primary key of the user id is distinct and have no in common, this will become an identifier to know whose person would receive a message from the user.

DATABASE DICTIONARY

Comments:

Field Name	Data Type	Field Length	Constraints	Default	Description
com_id	int	11	Primary Key	none	unique id for comment
post_id	int	11	foreign key	none	foreign key of posts table
user_id	int	11	foreign key	none	foreign key of user table
comment	varchar	255	Not null	none	comment of the user
comment_author	varchar	255	Not null	none	the user who posted a comment
date	timestamp		Not null	current_timestamp()	time and date of comment

Posts:

Field Name	Data Type	Field Length	Constraints	Default	Description
post_id	int	11	primary key	none	unique id for posts
user_id	int	11	foreign key	none	foreign key of user table
post_content	varchar	255	not null	none	the content of a post
upload_image	varchar	255	not null	none	attached image
post_date	timestamp		not null	current_timestamp()	date and time of post

Users:

Field Name	Data Type	Field Length	Constraints	Default	Description
user_id	int	11	primary key	none	unique id for users
f_name	text		not null	none	first name of user
l_name	text		not null	none	last name of user
user_name	text		not null	none	username of user
describe_user	varchar	255	not null	none	brief description about the user
Relationship	text		not null	none	status of user
user_pass	varchar	255	not null	none	password of user
user_email	varchar	255	not null	none	email address of user
user_country	text		not null	none	country of the user
user_gender	text		not null	none	gender of the user
user_birthday	text		not null	none	birthday of the user
user_image	varchar	255	not null	none	display picture
user_cover	varchar	255	not null	none	cover photo of account
user_reg_date	timestamp		not null	current_timestamp()	date and time of when the user registered
posts	text		not null	none	posts of the user
recovery_account	varchar	255	not null	none	for the recovery of account

User_Messages:

Field Name	Data Type	Field Length	Constraints	Default	Description
id	int	11	Primary Key	none	unique id for messages
user_to	int	11	foreign key	none	the person to send a message
user_from	int	11	not null	none	the person who messages
msg_body	varchar	200	not null	none	the message
date	timestamp		not null	current_timestamp()	date and time of sent message

DATABASE SCHEMA

comments	
com_id	int (11)
post_id	int (11)
user_id	int (11)
comment	varchar (255)
comment_author	varchar (255)
date	timestamp

posts	
post_id	int (11)
user_id	int (11)
post_content	varchar (255)
upload_image	varchar (255)
post_date	timestamp

users	
user_id	int (11)
f_name	text
l_name	text
user_name	text
describe_user	varchar (255)
Relationship	text
user_pass	varchar (255)
user_email	varchar (255)
user_country	text
user_gender	text
user_birthday	text
user_image	varchar (255)
user_cover	varchar (255)
user_reg_date	timestamp
posts	text
recovery_account	varchar (255)

user_messages	
id	int (11)
user_to	int (11)
user_from	int (11)
msg_body	varchar (200)
date	timestamp

EXAMPLE CONTENTS OF DATABASE

Database

Our Database is named "social_network" and it has four tables which are "comments", "posts", "users", and "user_messages".
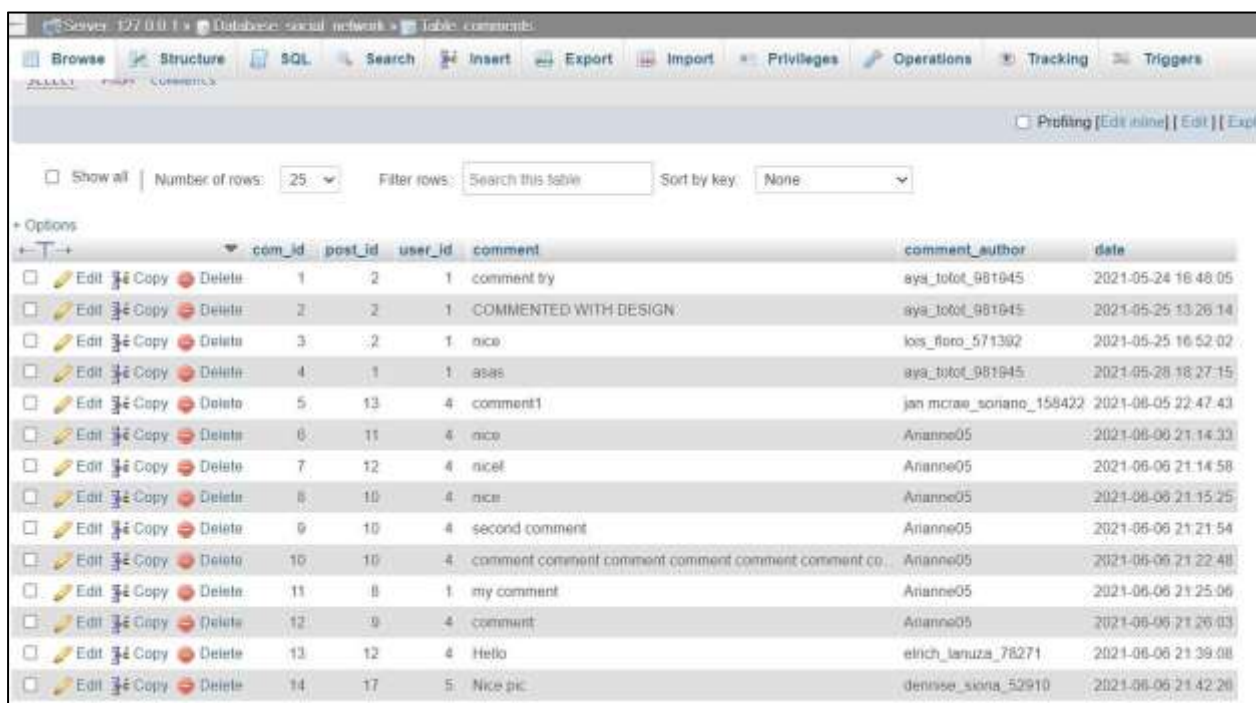
Comments (Table)

This table are for the comments of the users to a certain post by other users. It includes com_id which is the primary key of the table, post_id which is the id of the post, user_id and comment author the person who posted a comment, and the date.

Posts (Table)

This table is for the posts of the users. It includes the post_id, user_id, post_content which is the body of the post, upload_image whether the user inserted an image or not, and the post_date.

Users (Table)

This table is for the overall information of the user which is displayed in the website's profile including the recovery account.

user_email	user_country	user_gender	user_birthday	user_image	user_cover	user_reg_date	posts	recovery_account
arianne@gmail.com	Philippines	Male	2000-12-04	arianne.jpg 30	quimpo.jpg 25	2021-05-23 11:57:48	yes	ayatot
lois@gmail.com	United States	Other	2000-05-31	loi.jpg 78	loro.jpg 13	2021-05-25 14:20:09	yes	secret
soriano@gmail.com	Philippines	Male	2000-02-22	mcrae.jpg 96	soriano.jpg 26	2021-06-05 22:25:52	yes	mydefaultrecovery
lanuza@gmail.com	Philippines	Others	2000-04-24	el.jpg 98	siona.jpg 54	2021-06-06 21:37:15	yes	mydefaultrecovery
siona@gmail.com	Philippines	Female	2001-03-02	dennise.jpg 1	lanuza.jpg 24	2021-06-06 21:41:22	yes	mydefaultrecovery
dino@gmail.com	United States	Female	2001-01-05	head_turqoise.png	default_cover.jpg	2021-06-07 18:44:44	yes	mary

User_Messages (Table)

This table is for the transaction between the two users when messaging each other. user_to is the id of which the user will send message, user_from is the person who sends the message, and msg_body is for the content of the message sent.

SCREENSHOTS

Screenshot 1.0: Main page of Hornets Hives website.

Screenshot 2.0: Section of the page that shows the information about the website
including its features and unique feature.
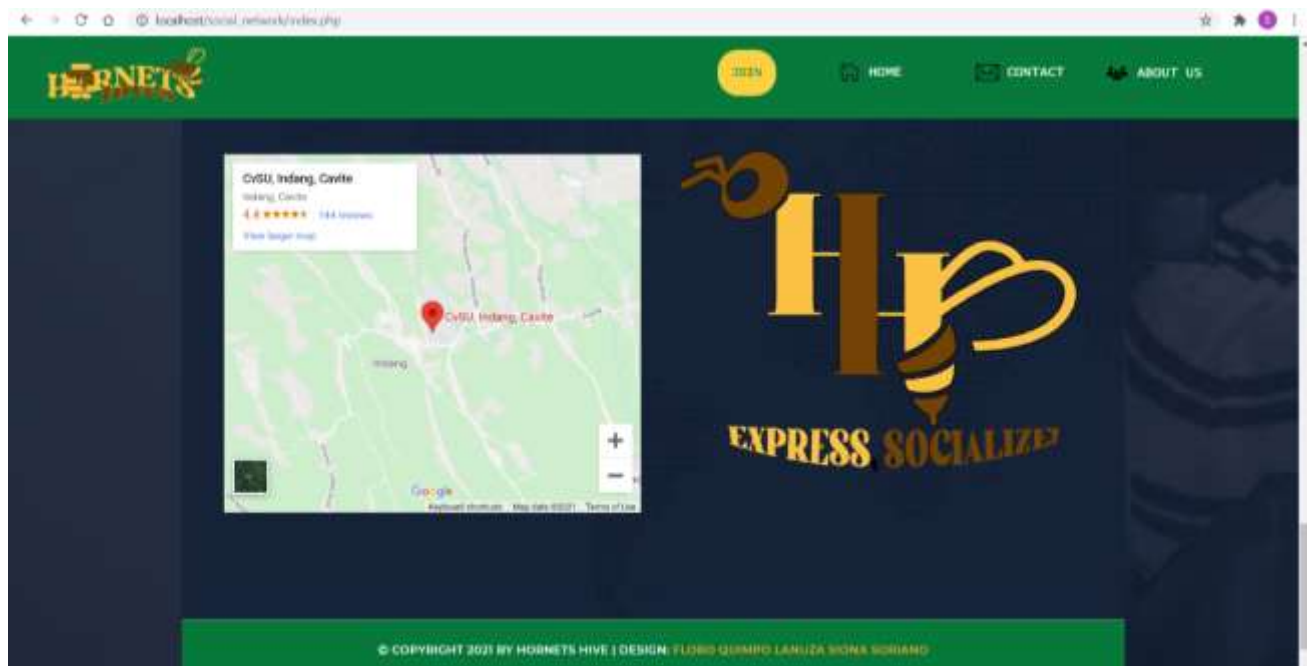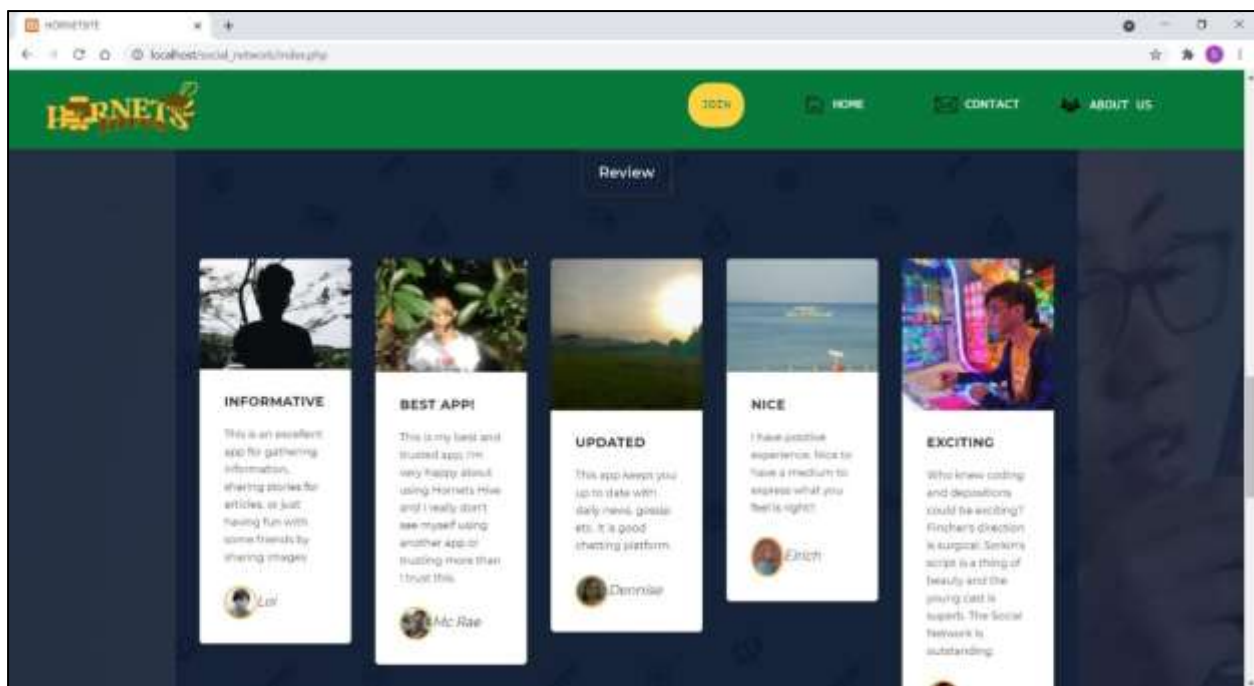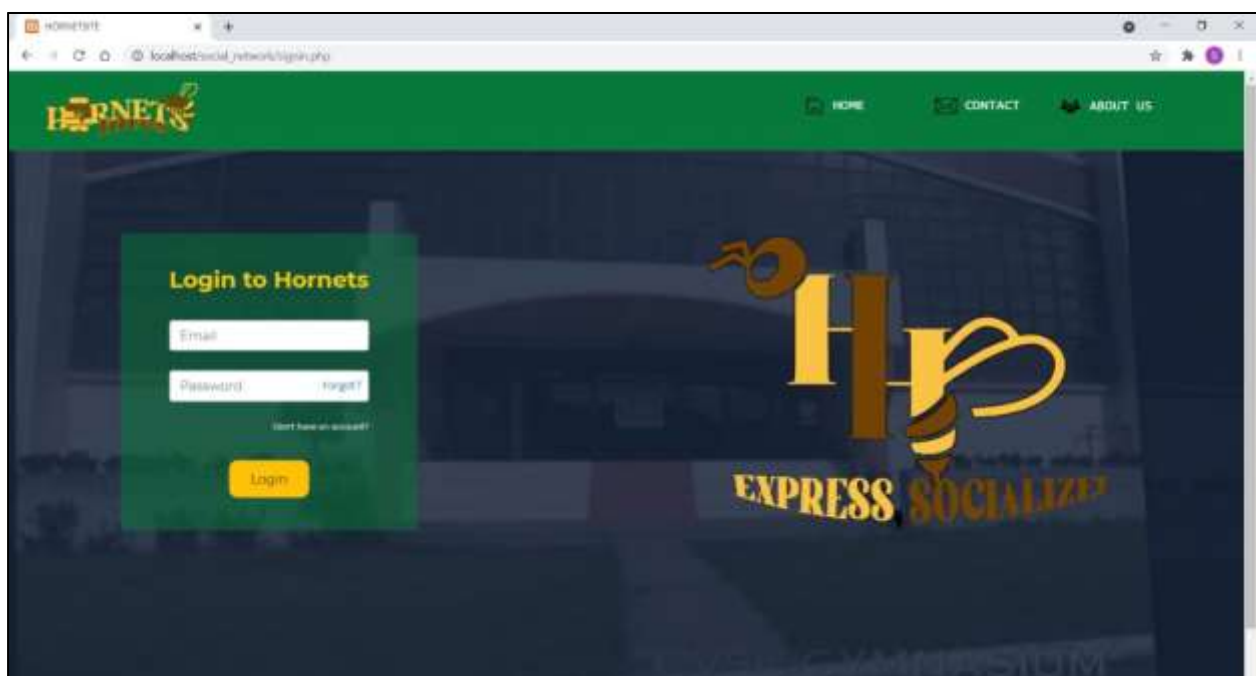
Screenshot 3.0: Review section.

Screenshot 4.0: Section where the users are going sign up or make an account. It also has a button named "Already have an account?" wherein when clicked, it will direct the user to login.php.
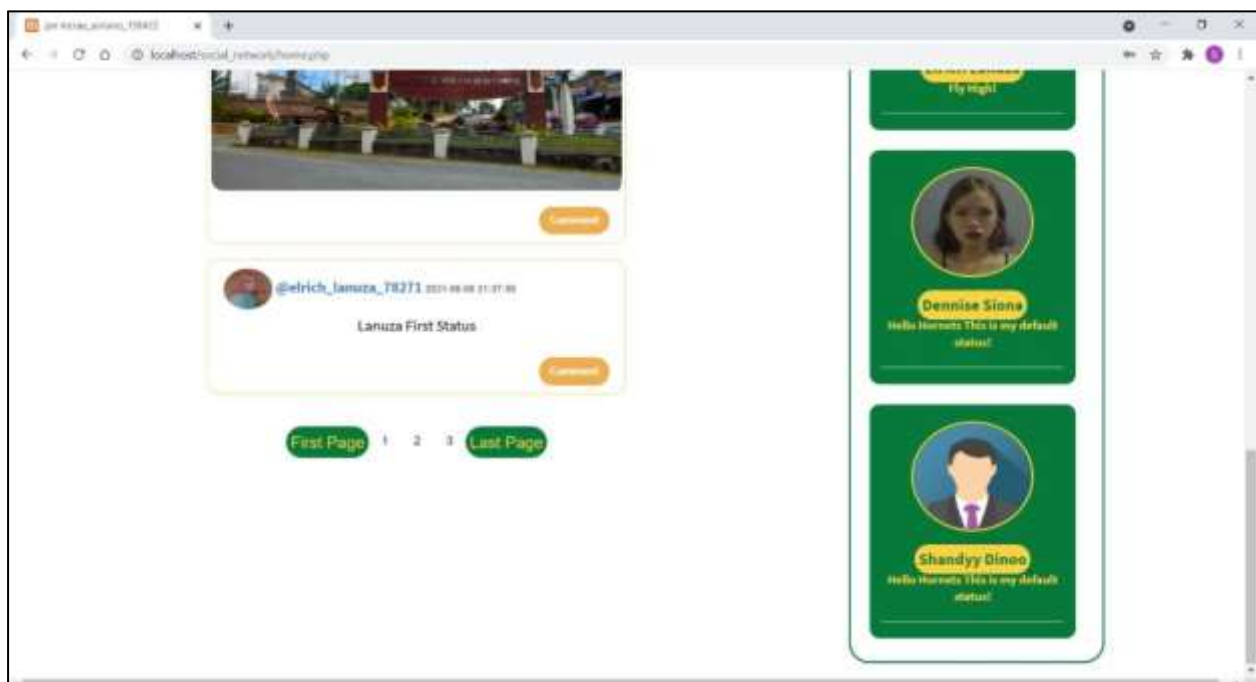

Screenshot 5.0: This is the login.php where user can type their email and password to log in if they already have an account.
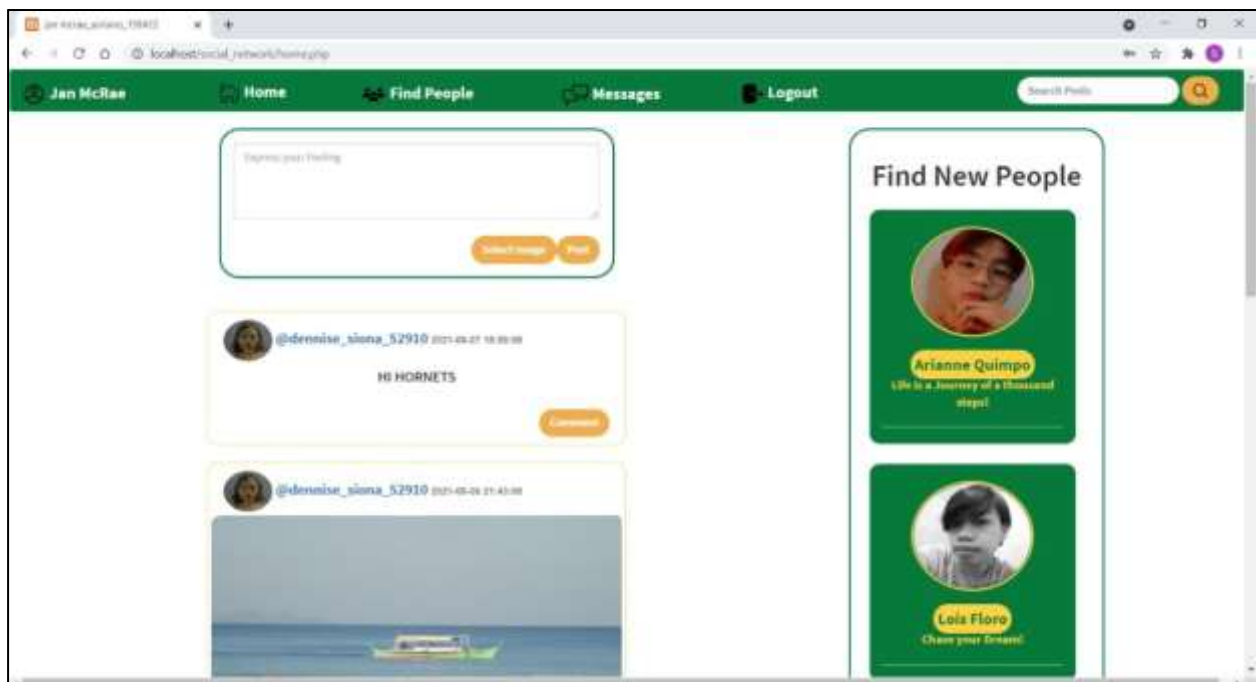
**Screenshot 6.0:** This is the home page or the news feed of the website where the user will able to see the posts of other users.

Screenshot 7.0: The button below is for checking the first page to last page or latest and oldest posts.
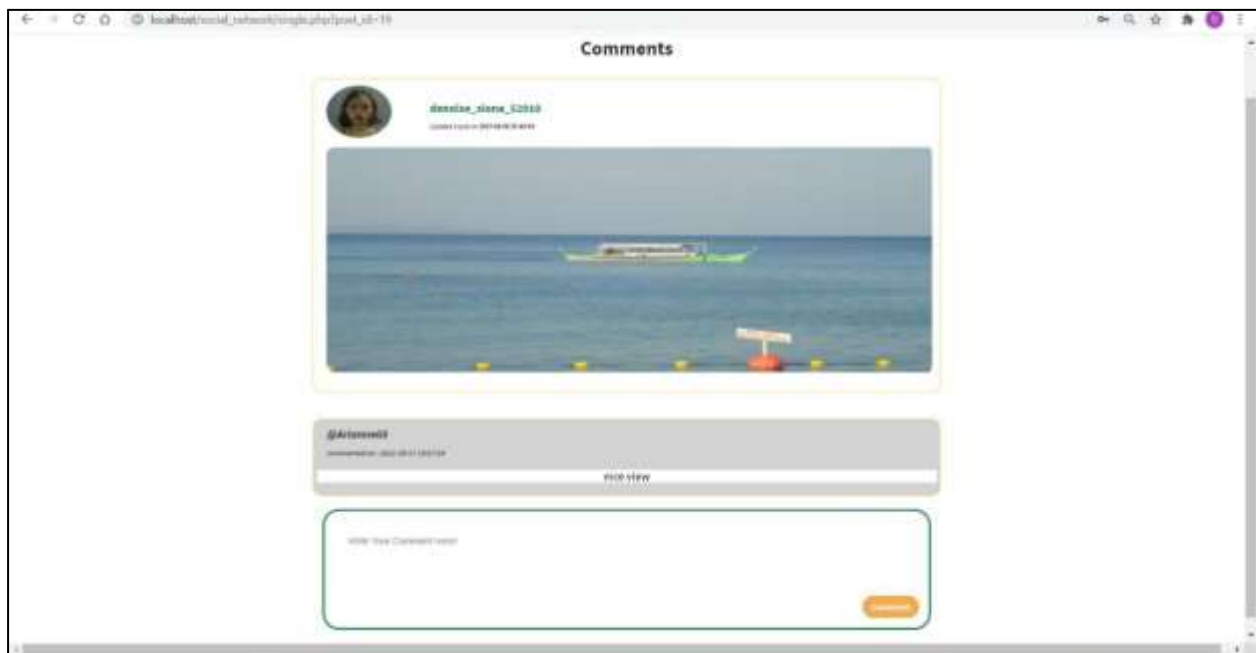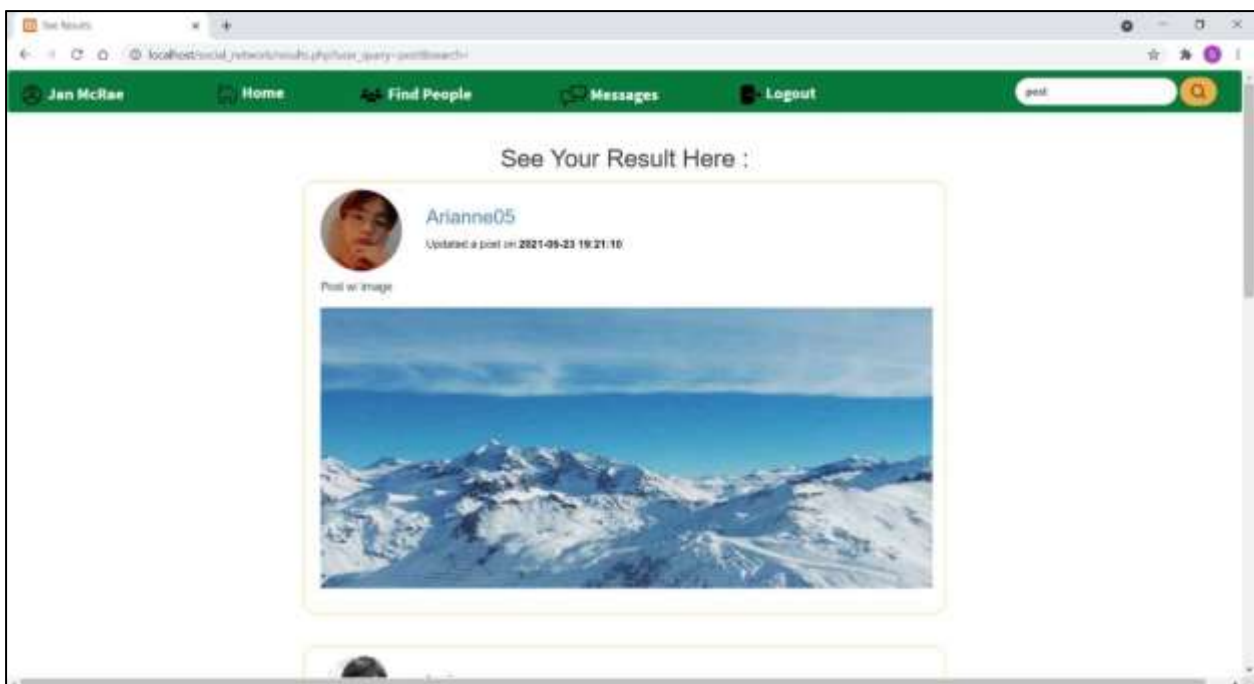
Screenshot 8.0: By clicking the "comment" button in home page of a certain post, it will direct you to the comment section where the user will be able to see comment and post a comment.
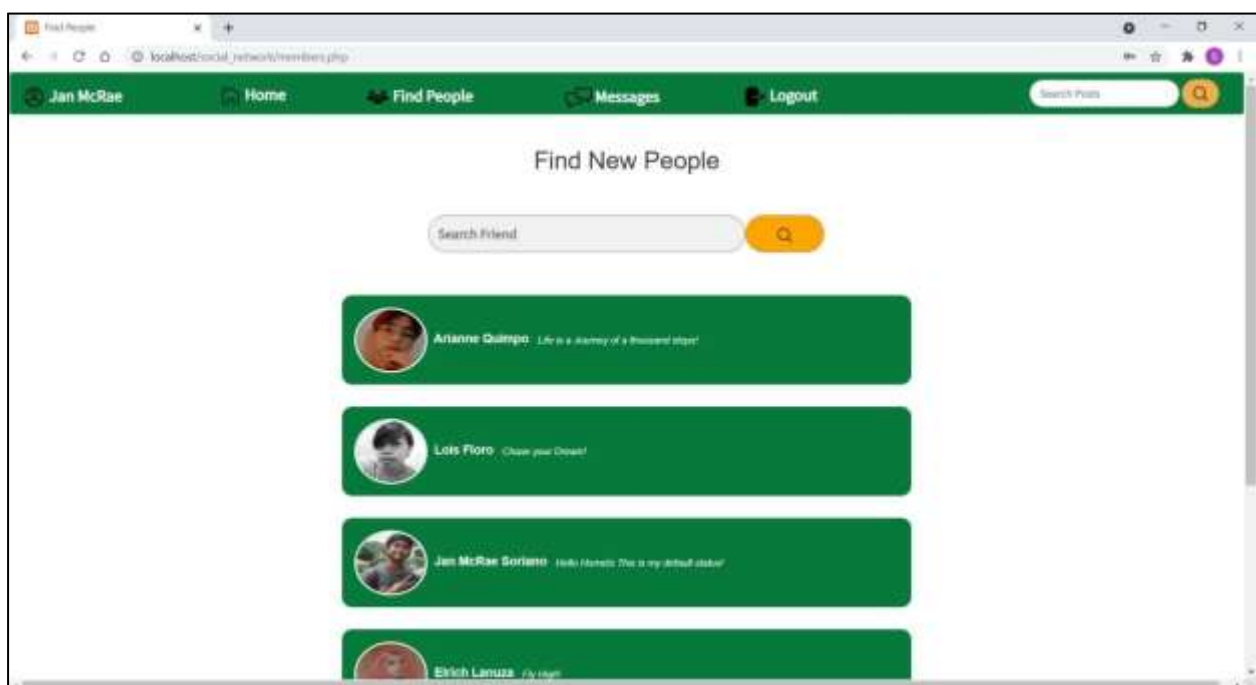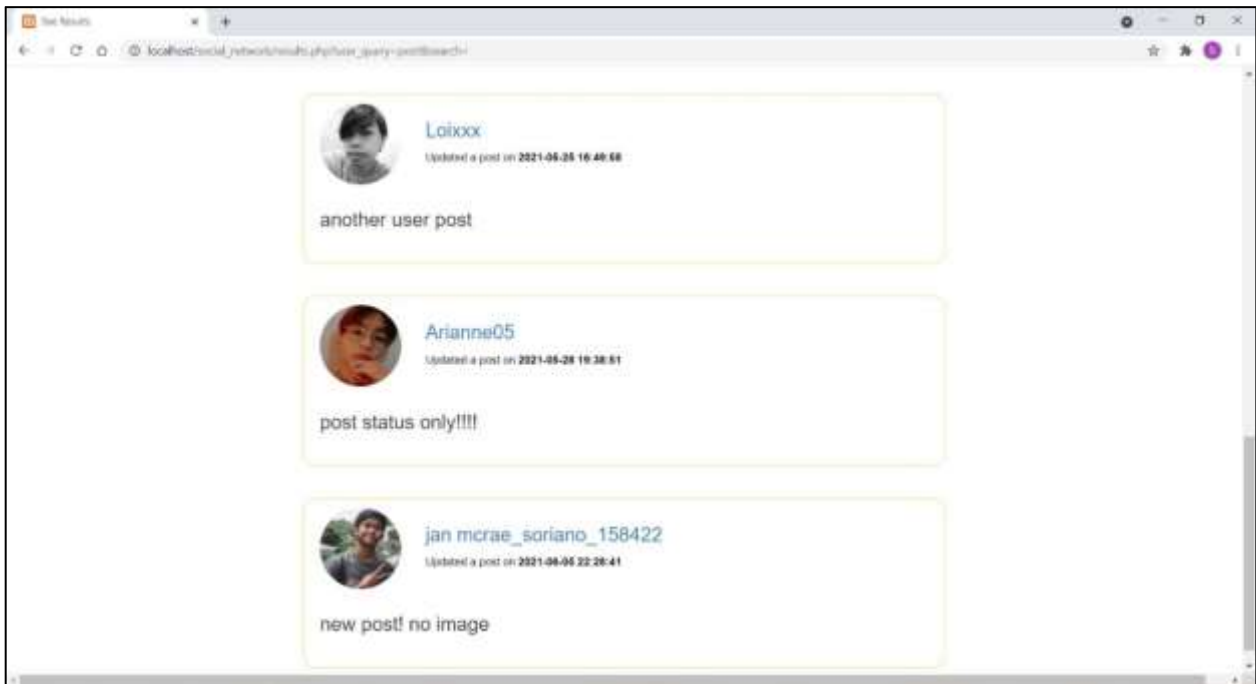

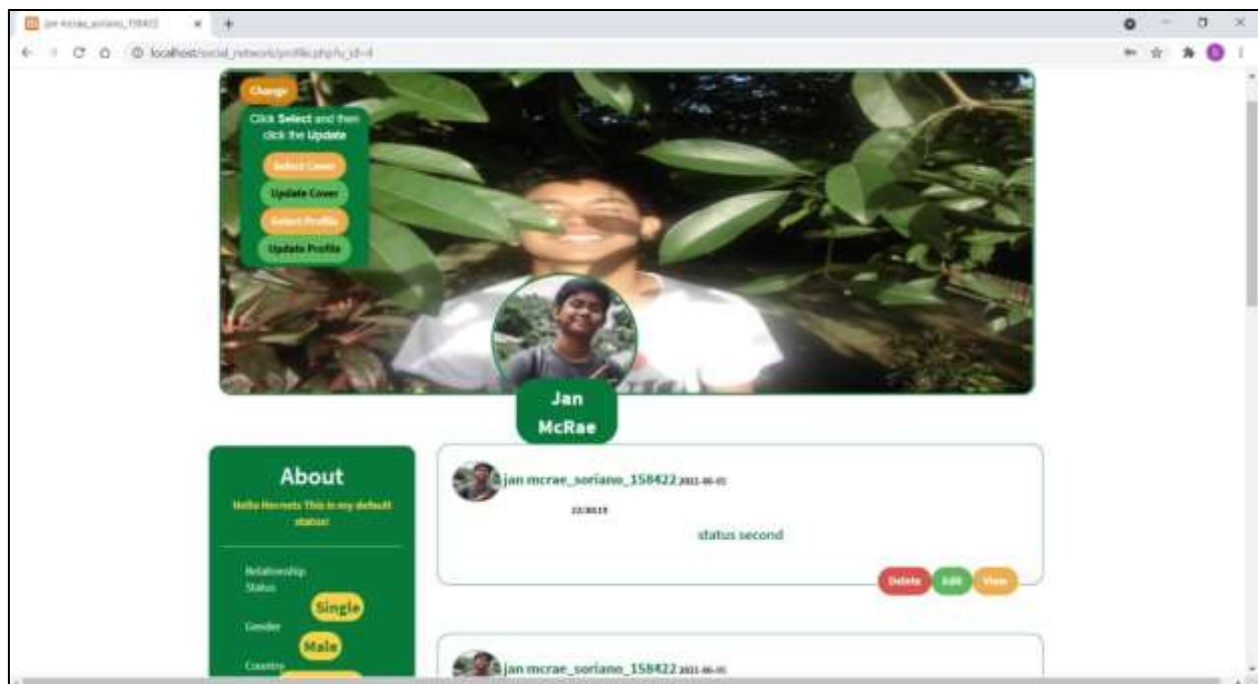**Screenshot 9.0:** This is the section where the user can search for a certain user.
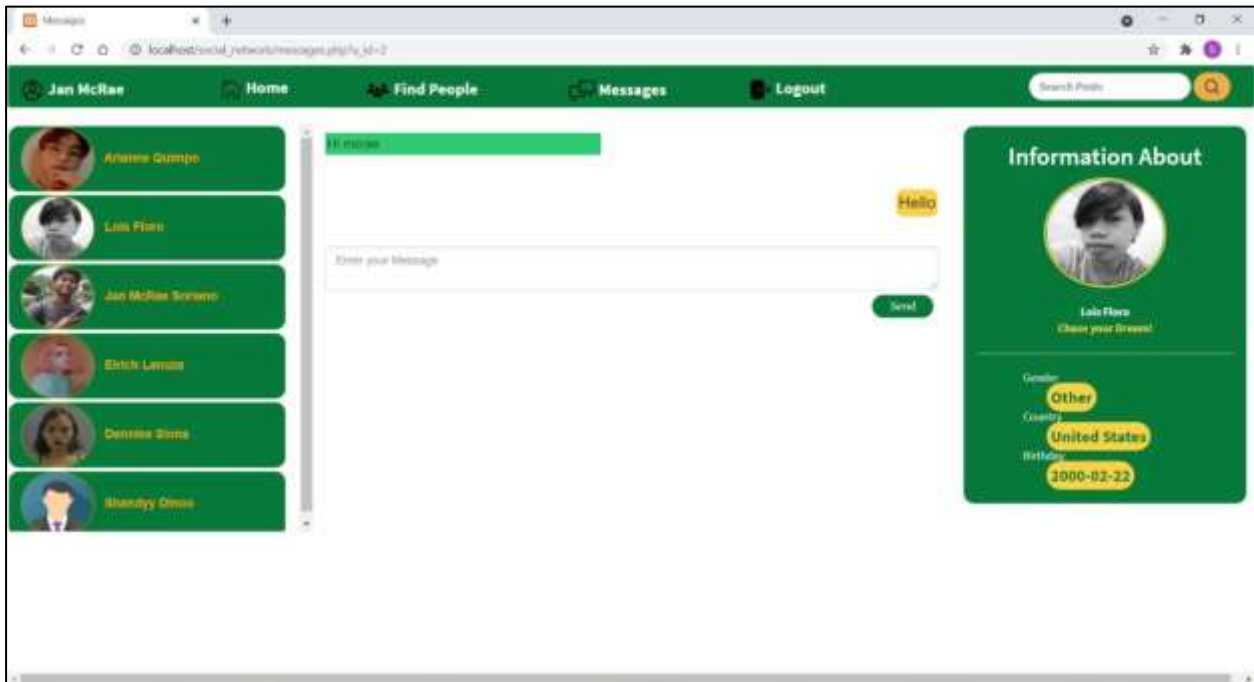
**Screenshot 10.0:** This is the messages section where the users can privately message other users.

**Screenshot 11.0:** It shows in the picture that the user searched for "post."

Screenshot 12.0: As the user searched for post, the results shown are any post that has the word "post."


Screenshot 13.0: This is the profile page of the user where it shows some details of the user. Including the profile and cover photo, posts that are posted by the user can also be seen in this section.
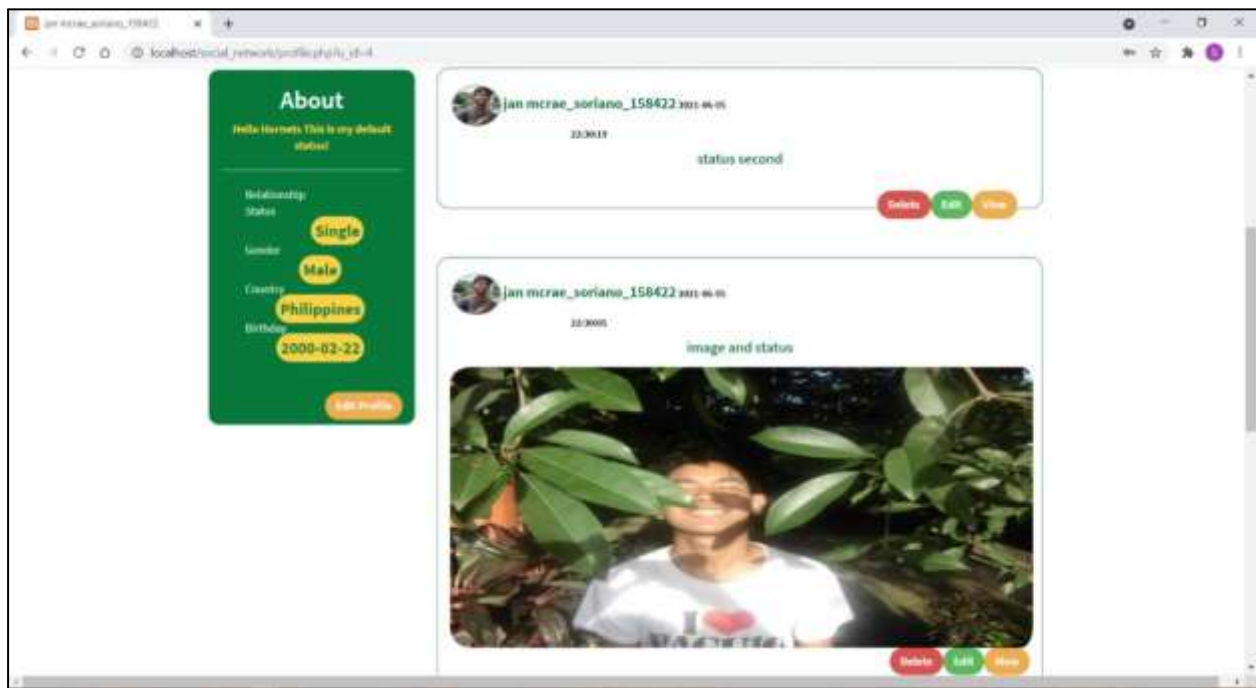
Screenshot 14.0: It also includes some information about the user that is located in "about."
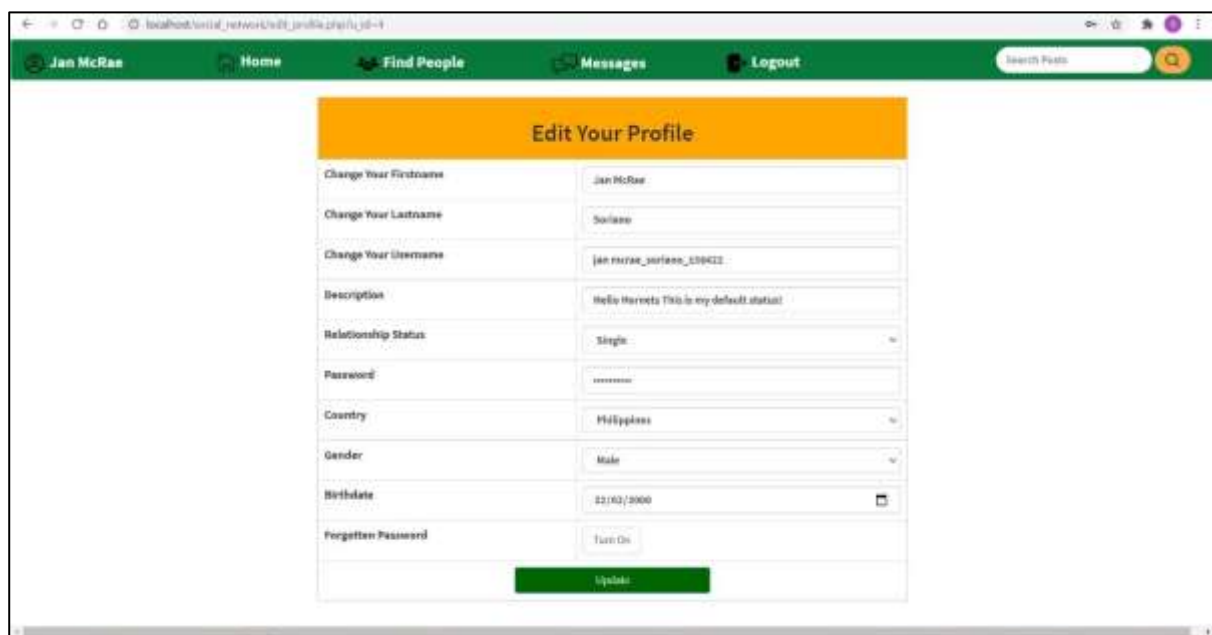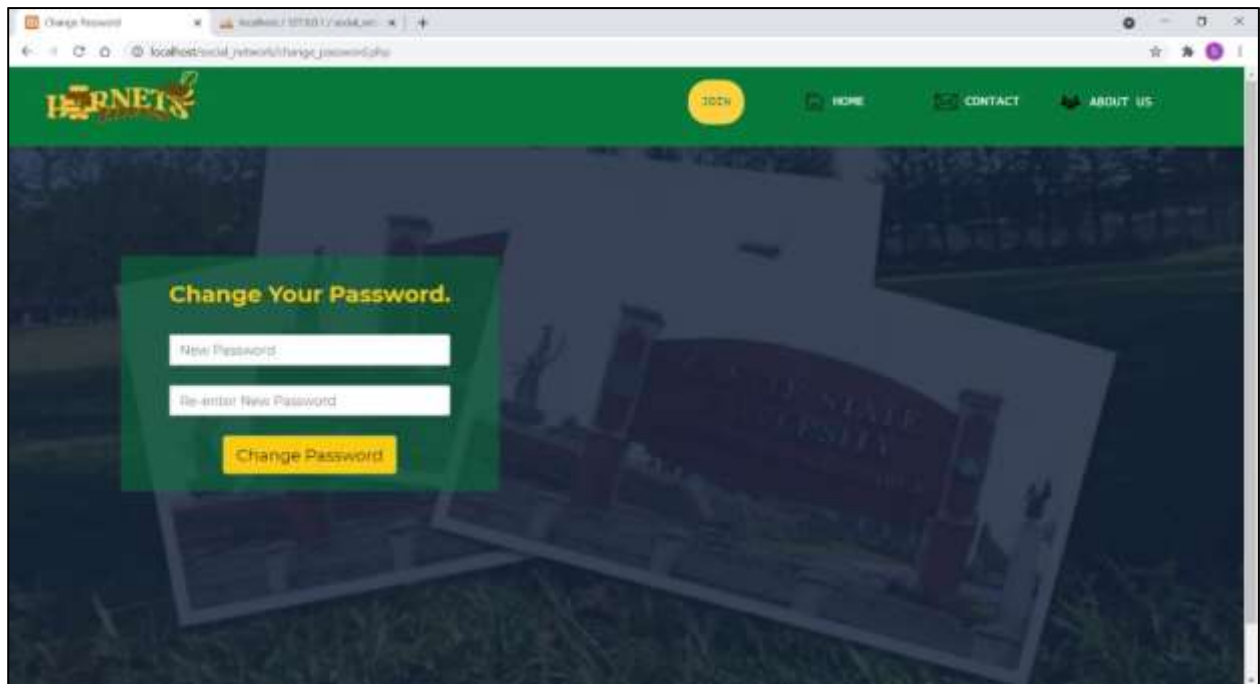

Screenshot 15.0: This is the section where the user can edit his/her profile. It also includes the "forgotten password."
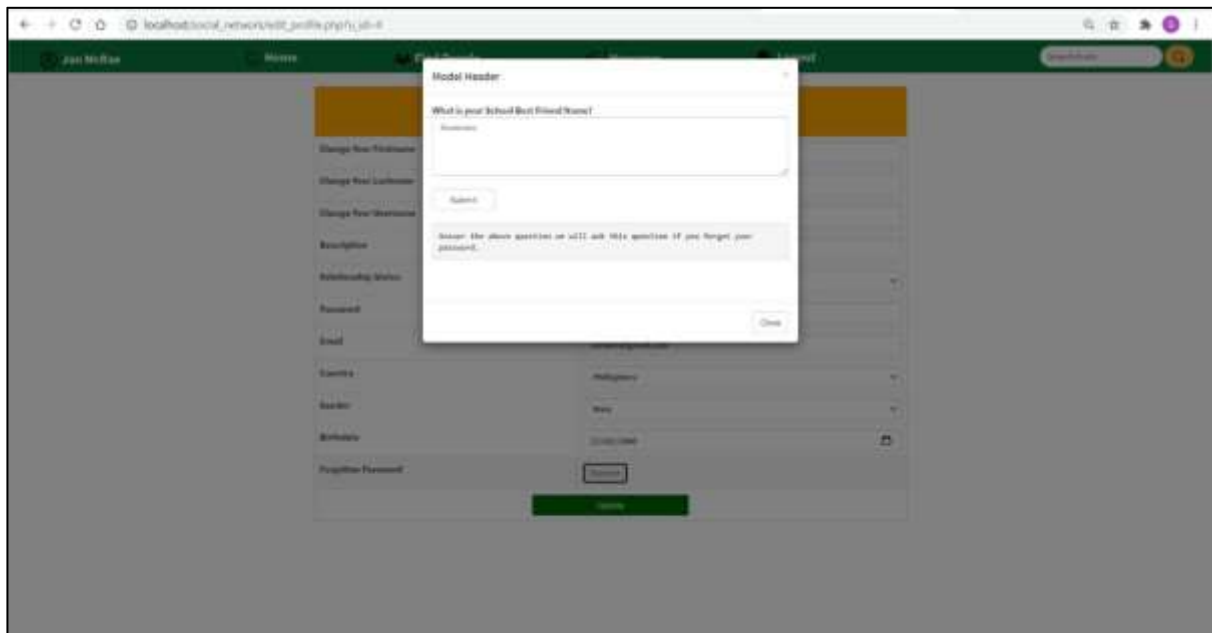
Screenshot 16.0: This is the pop up that will appear when the user clicked the "turn on" button. The user must type their answer.

Screenshot 17.0: If the user clicked the "forgot password" in log in section, it will the direct the user to forgot_password.php.

Screenshot 18.0: When the user typed the correct answer, it will direct the user to change_password.php where the user can create a new password.