

**Maharashtra Education Society's
Abasaheb Garware College
Karve Road, Pune**

Topic: -

Instagram Clone

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Existing System

Instagram (commonly abbreviated IG or Insta) is an American photo and video sharing social networking service created by Kevin Systrom and Mike Kreiger. In April 2012, Facebook acquired the Instagram.

The app allows users to upload media that can be edited with filters and organized by hash tags and geographical tagging. Posts can be shared publicly or with pre-approved followers. Users can browse other users' content by tags and locations and view trending content. Users can like photos and follow other users to add their content to a personal feed.

Users can set their account as "private", thereby requiring that they approve any new follower requests. Users can connect their Instagram account to other social networking sites, enabling them to share uploaded photos to those sites. Users can save the posts. Users can also archive their posts in a private storage area, out of visibility for the public and other users.

Instagram has Explore tab inside the app that displays popular photos, photos taken at nearby locations, and search. Instagram offers a number of photographic filters that users can apply to their images.

Instagram also has a stories feature that allows users to take photos, add effects and layers, and add them to their Instagram story. Images uploaded to a user's story expire after 24 hours.

Introduction

This is the age of contacts for interaction between people to people through social platforms in the web.

Through our proposed user can interact with their friends by chatting with them, they can see photos of their friends and like or write comments on their uploaded pictures. Users can also follow their known friends and find more friends through the suggestions show to them.

Our main aim of this system is to make the social networking site where all of our friends and family come together on one platform and share their social activities with each other and socialize with more and more people.

From technical point of view this is very user friendly website so users can use it very easily without any prior knowledge and can easily make account on it as it is free to use website.

Scope

Scope of the project is to implement the Instagram website with the functionalities like uploading the photos, giving like and comment on the friend's photo and getting notification about who commented or liked our photo.

We have also implemented the chat module to chat with their friends in real time.

Our main aim of the system was to make the system more dynamic and make the website more interactive for the users by making the changes done by the users updating in real time.

We made a website where users can also follow their friends to see uploaded photos and give feedback on them and save their photos to watch later.

Users can also change their profile photo and edit their profile.

Features

❖ Create Account :-

New user has to create the account through Sign In page with providing details like mail id, full name, username, password and date of birth.

❖ Comment :-

Users can post the comments on the uploaded pictures and also see the previous comments on particular post and view number of comments.

❖ Chat in real time :-

User can select their friends to chat with. We can also check who is currently available to chat by checking their online status when there is green dot.

❖ Post Photos :-

User can upload his / her photo on the feed, where other users can see, like and comment on it.

❖ Follow Friends :-

Users can follow their friends to see their photos and chat with them.

❖ Edit Profile :-

Users have option to edit their bio and can update their phone number.

❖ **Account Recovery :-**

If user forgets their password then they can recover it through the OTP validation.

❖ **Notifications (like and comment) :-**

User can see the notifications about who likes our photo or who commented on it.

System Requirements

➤ Hardware Requirements :-

❖ **Processor** : Intel Processor Core Duo / Pentium Processor

❖ **RAM**: 1 GB or More.

➤ Software Requirements :-

❖ **Operating System** : Linux / Windows

❖ **Coding Language**: PHP, HTML, CSS, JavaScript, AJAX, XML, Bootstrap, and JQuery.

❖ **Server** : Nginx / Xampp (Apache)

❖ **Browser** : Mozilla / Chrome

❖ **Database** : PostgreSQL

Feasibility Study

Technical Feasibility:-

All the languages and softwares we used were technically reliable and well documented and fulfil the requirements needed to make the website and develop sustainable front end for the user's environment.

Economical Feasibility:-

Servers running cost should be minimum and affordable as it is free to use social media website. Select servers with minimum maintenance cost and website must be open source

All the softwares and programming languages we used like PostgreSQL, PHP, JavaScript, HTML, CSS, Bootstrap, XAMPP, Nginx where free to use and many of them where open sourced also .

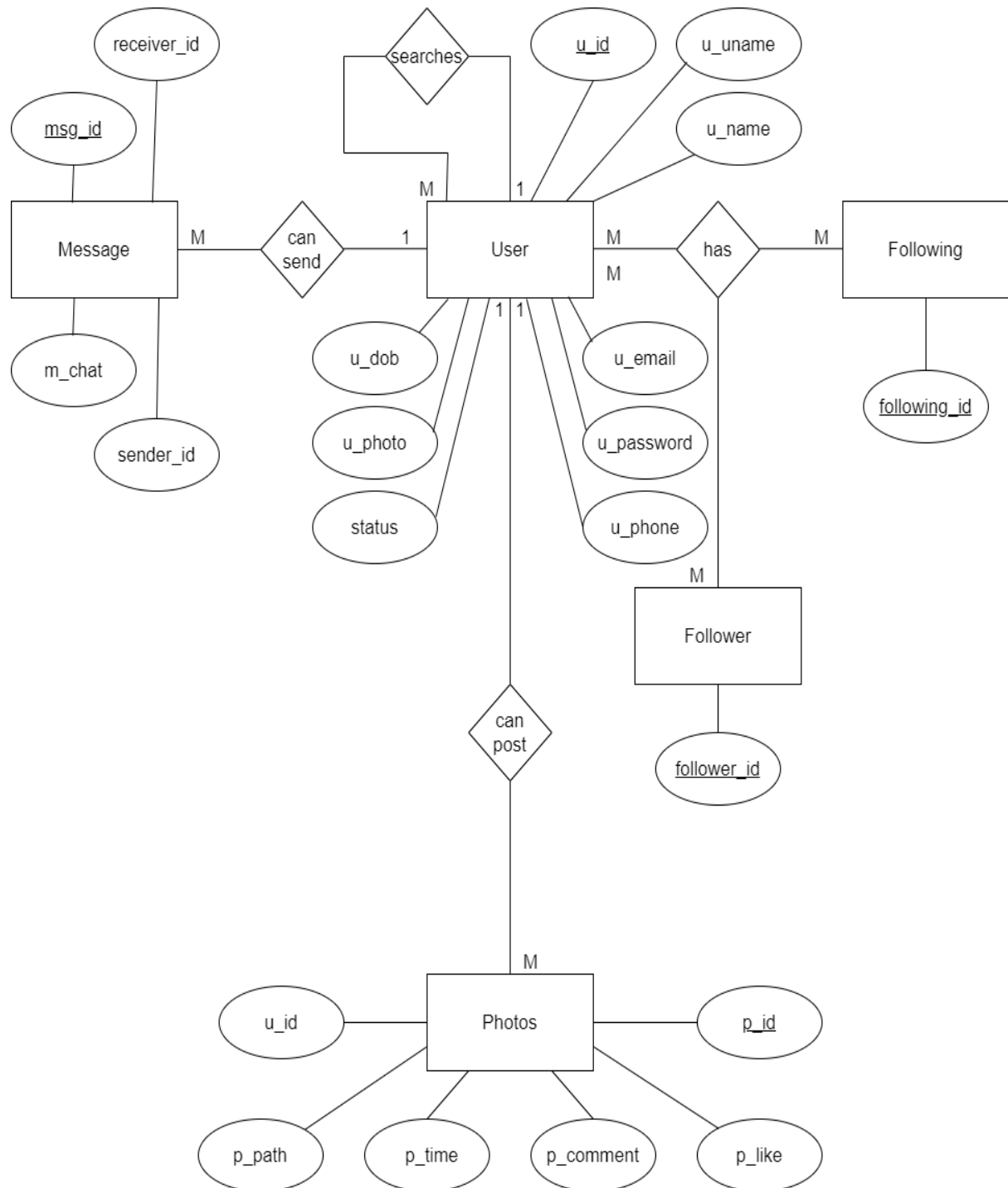
Operational Feasibility:-

We built a website which is easy to use and easy to operate all the features in the website without any prior technical or programming knowledge.

We tried to make website compatible with user's all kinds of environment (laptop/pc). No additional software is required to run the website other than web browser.

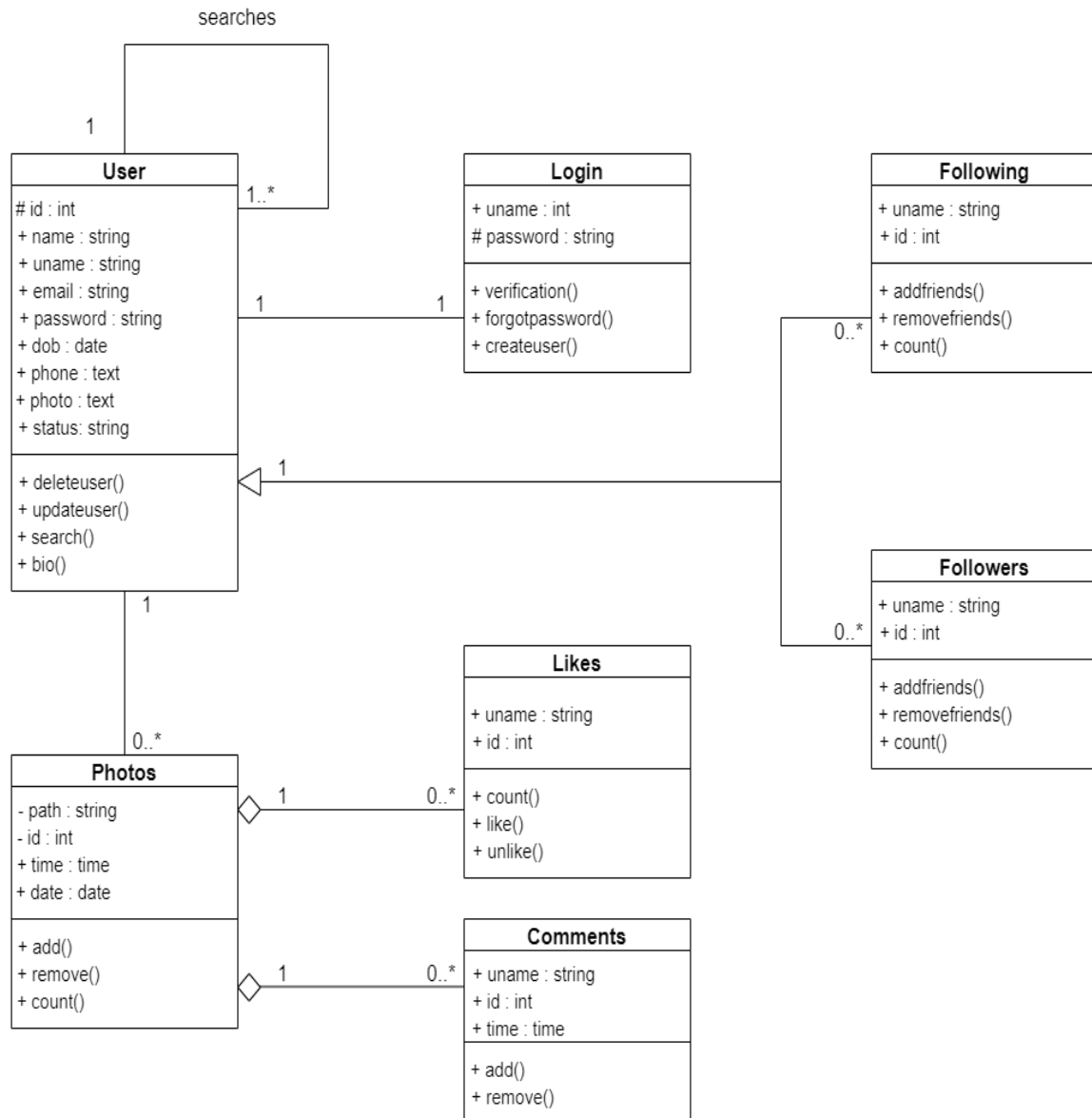
Analysis and Design

ER diagram:-

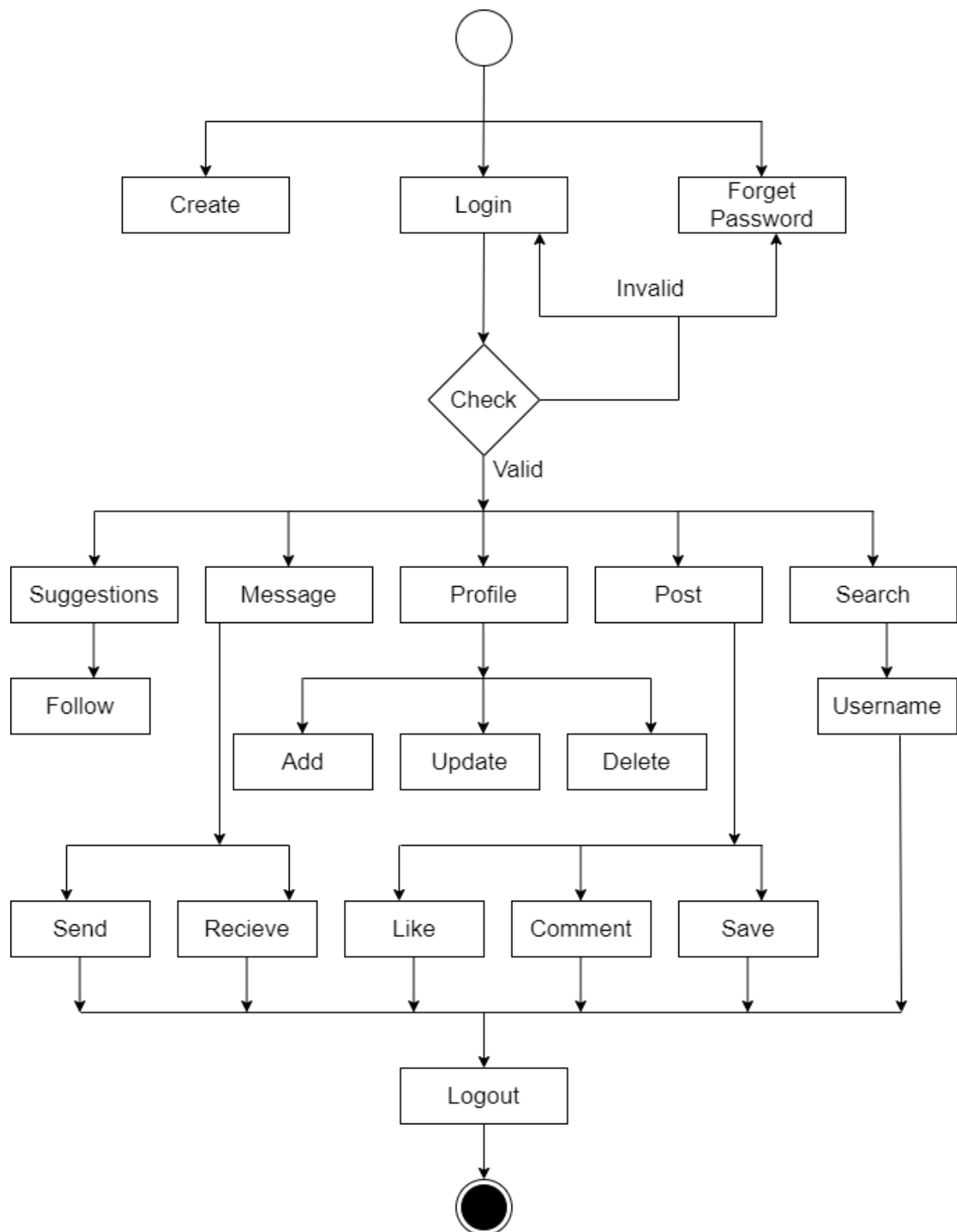


UML diagrams

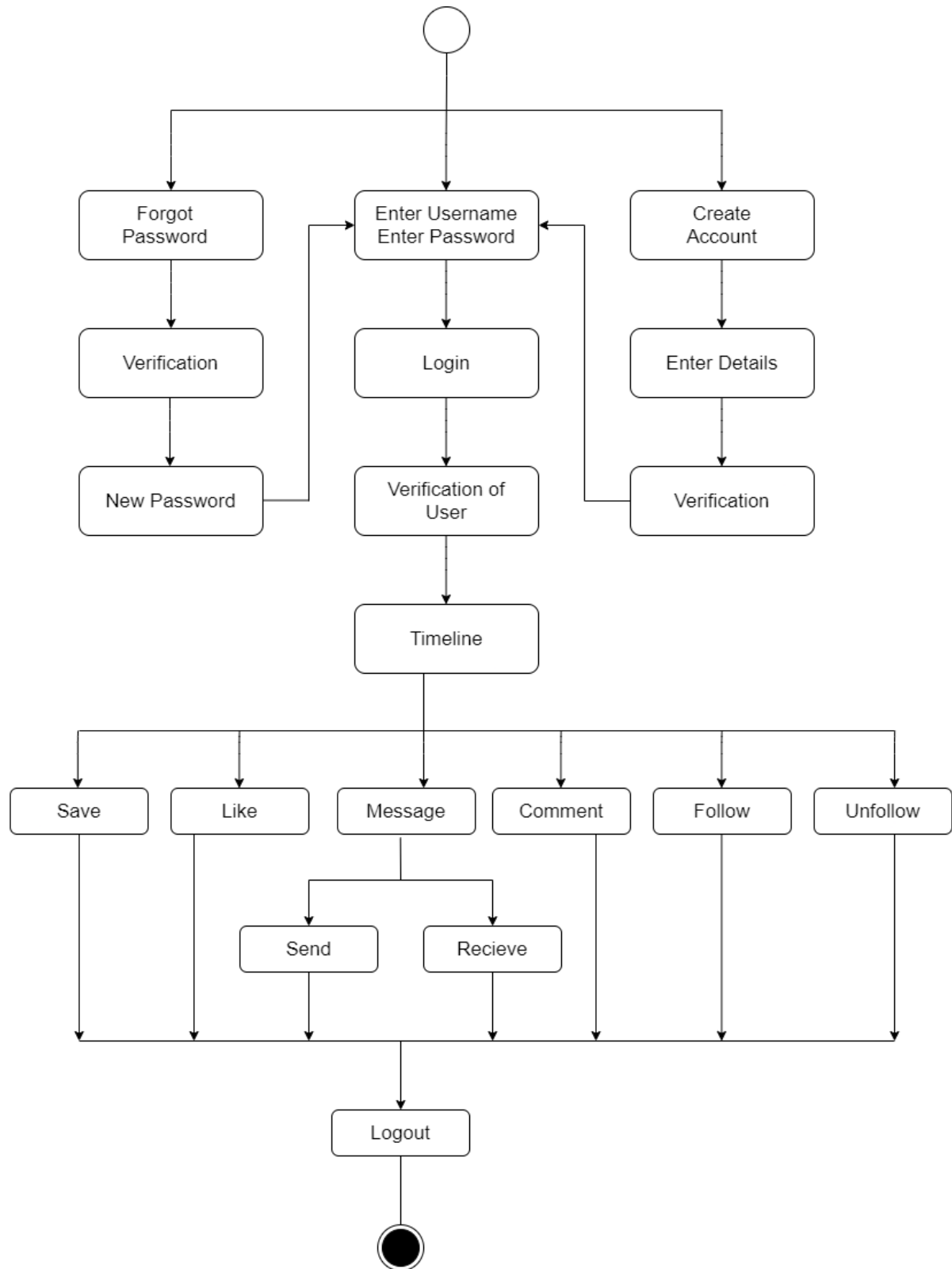
Class Diagram:-



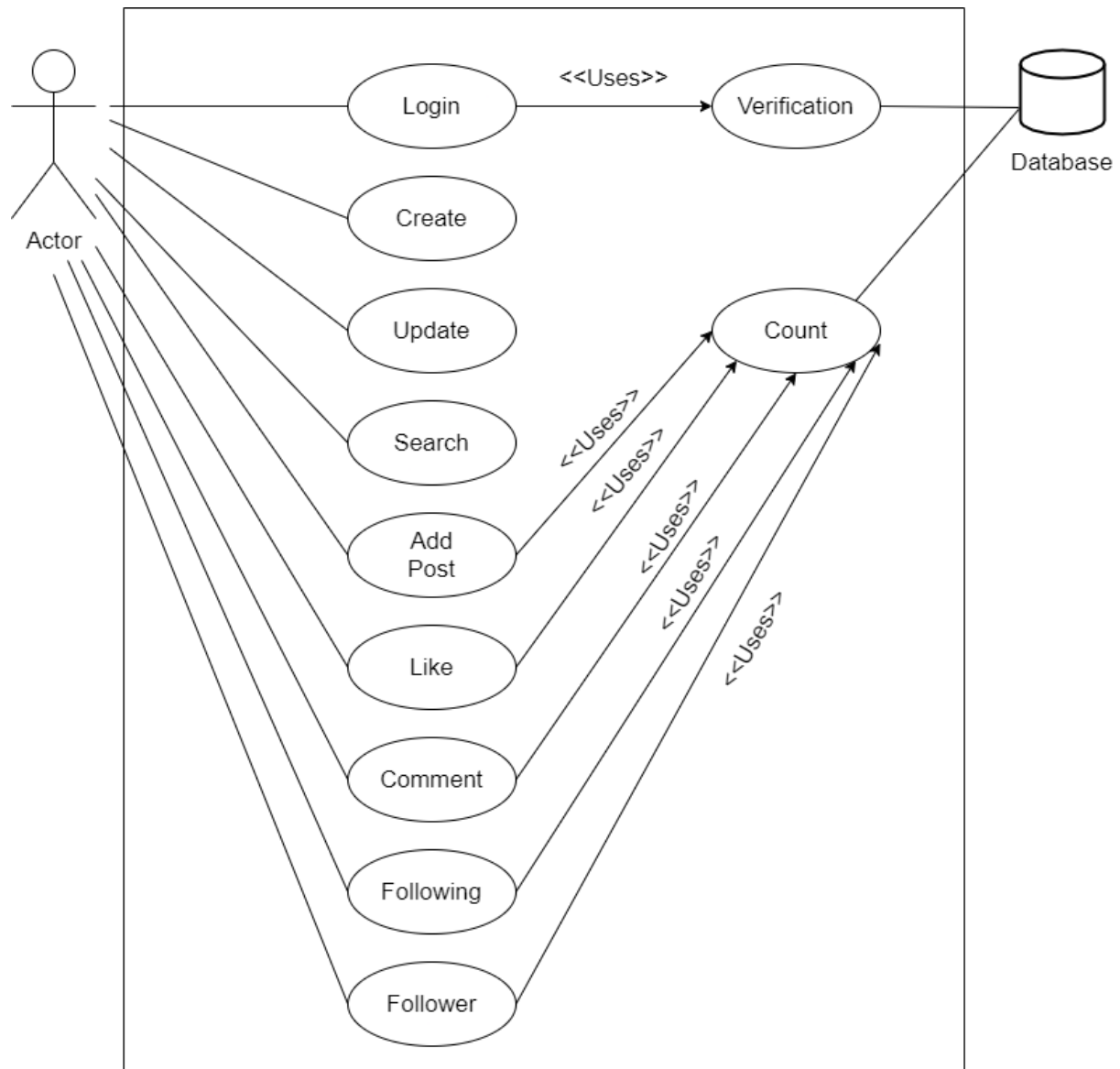
Activity Diagram:-



State Diagram:-

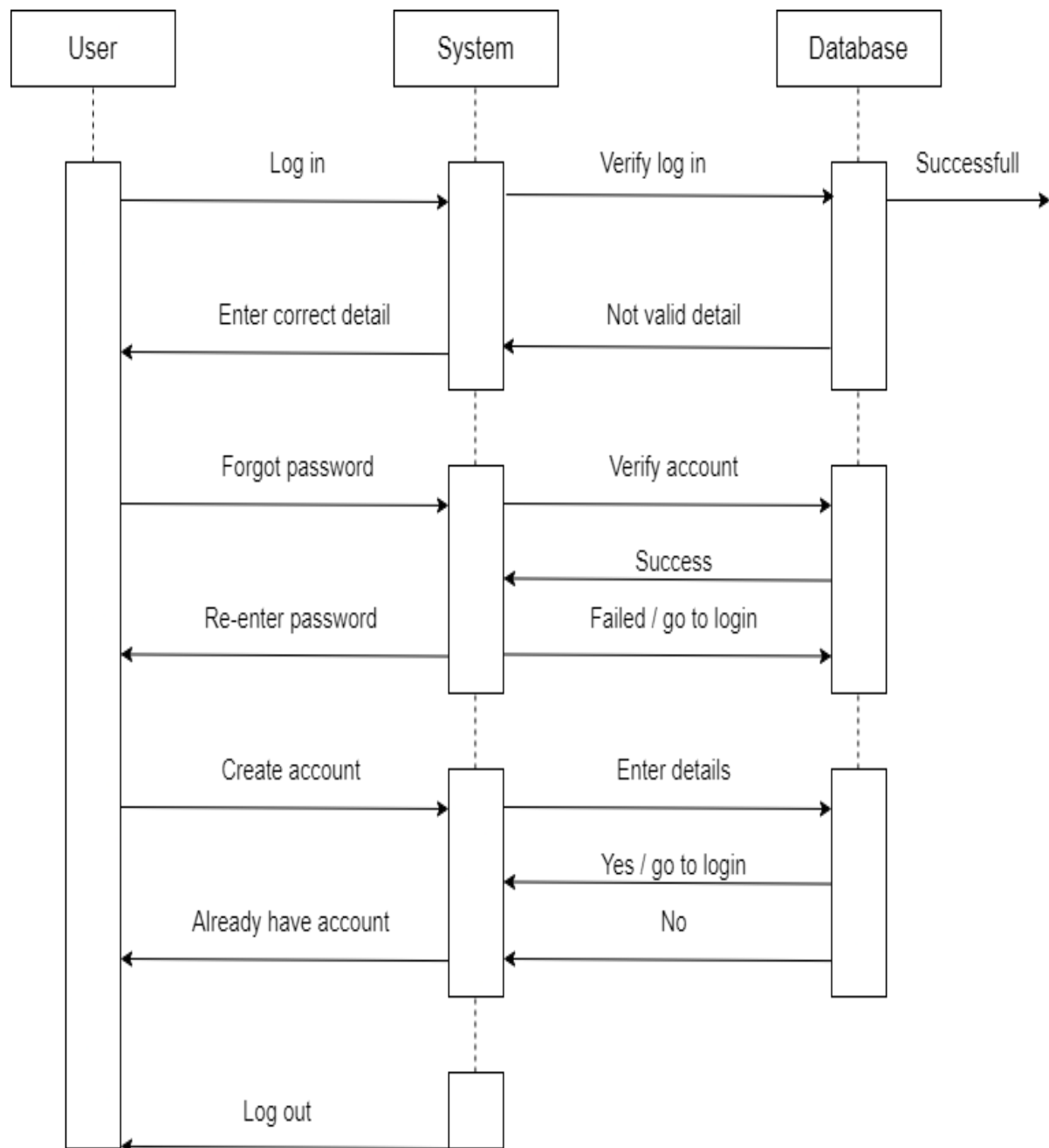


Use Case diagram:-

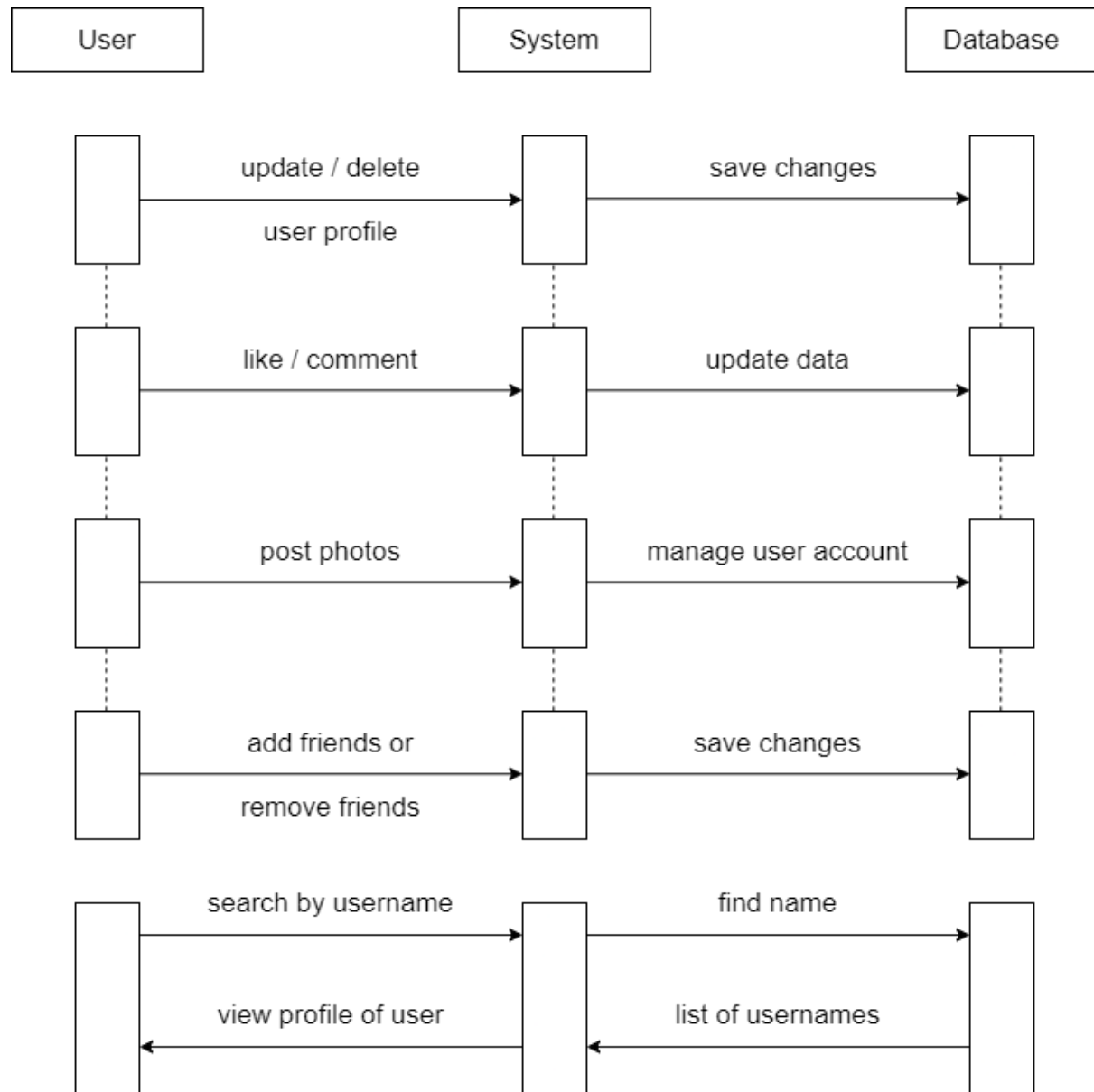


Sequence diagram:-

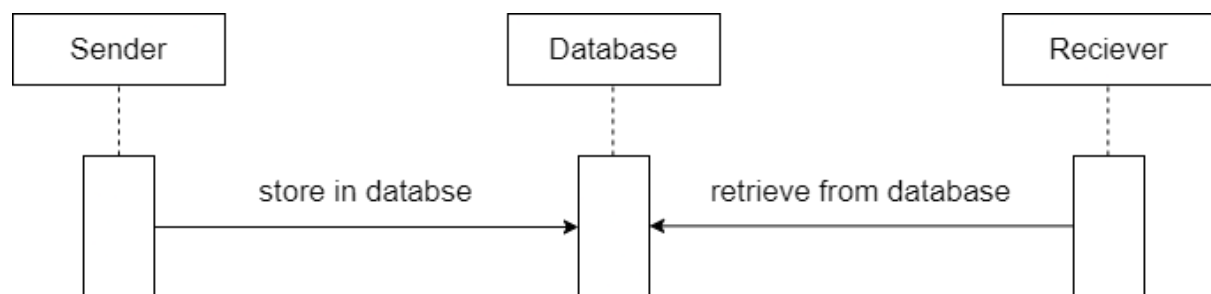
Login:-



After Login:-



Message:-



Data Dictionary

user_detail:-

Field Name	Field Type	Description
u_id	Int	User id (PRIMARY KEY)
u_uname	varchar(20)	Username
u_name	varchar(20)	User account name
u_password	varchar(20)	User password
u_email	varchar(30)	User mail id
u_phone	tel	User phone number
u_dob	date	User birthdate
u_photo	text	User profile photo
status	varchar(50)	User status

message:-

Field Name	Field Type	Description
msg_id	int	Message id (PRIMARY KEY)
sender_id	int	Sender's Id
receiver_id	int	Receiver's Id
m_chat	varchar(1000)	Message body

following_follower:-

Field Name	Filed Type	Description
following_id	int	User following id
follower_id	int	User follower id

post:-

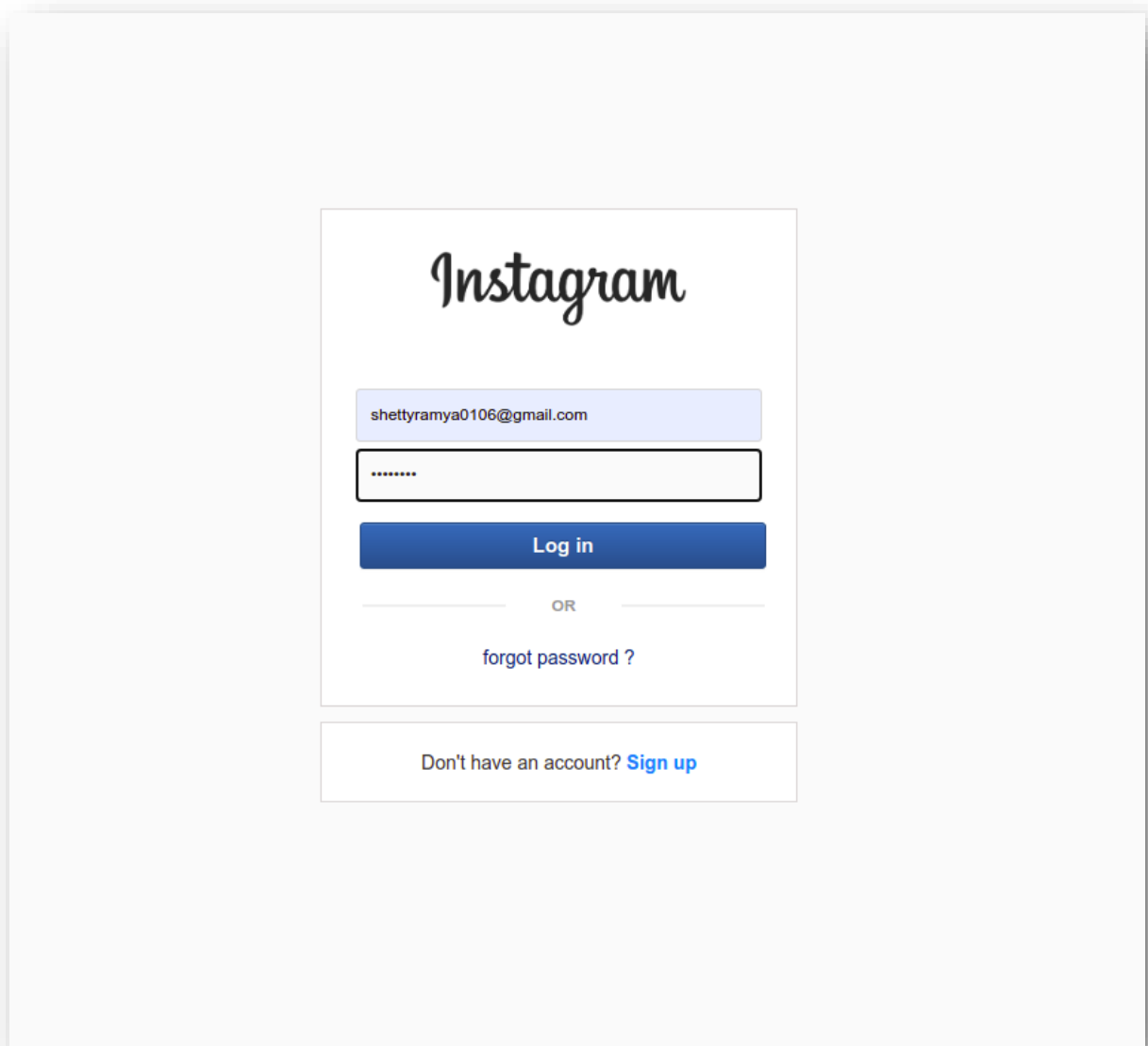
Field Name	Field Type	Description
p_id	int	Post Id(PRIMARY KEY)
u_id	int	User Id (FOREIGN KEY)
p_path	text	Post path
p_time	timestamp	Post upload time
p_comment	text	Post comments
p_like	text	Post likes

save:-

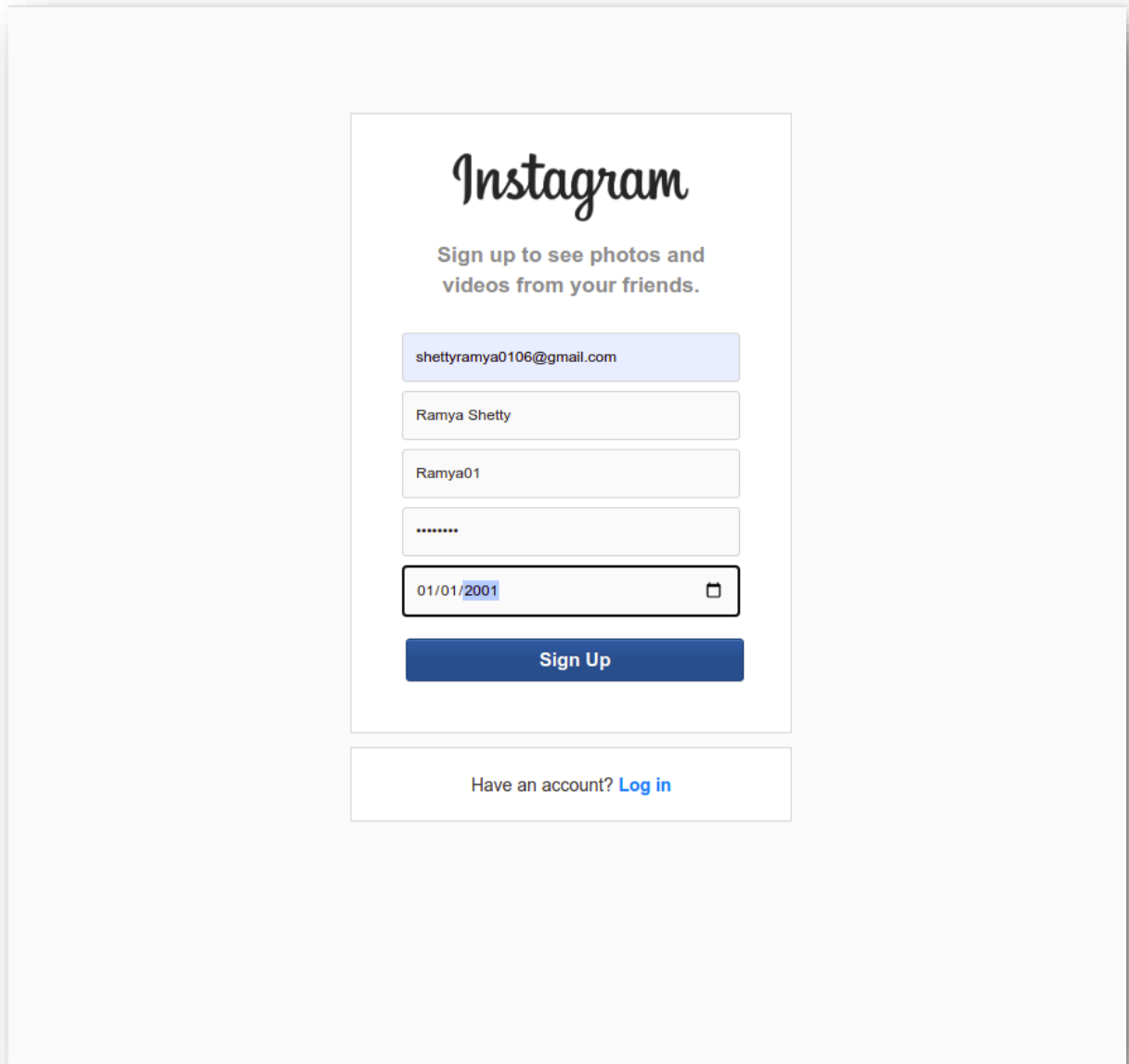
Field Name	Field Type	Description
p_id	int	Post Id (FOREIGN KEY)
u_id	int	User Id(FOREIGN KEY)

Input-Output Screens

Login Page:-

A mockup of the Instagram login page. It features the Instagram logo at the top, followed by a text input field containing the email address 'shettyramya0106@gmail.com'. Below this is a password input field with masked characters '.....'. A blue 'Log in' button is positioned below the password field. Underneath the button is a horizontal line with the word 'OR' in the center. Below the line is a link that says 'forgot password ?'. At the bottom of the form is a link that says 'Don't have an account? Sign up'.

Signup Page:-

A mockup of the Instagram signup page. It features a central white card with a light gray border and a subtle drop shadow. The card contains the Instagram logo, a sign-up prompt, and a form with fields for email, name, username, password, and birth date. A 'Sign Up' button is at the bottom of the form, and a 'Log in' link is below the card.

Instagram

Sign up to see photos and videos from your friends.

shettyramya0106@gmail.com

Ramya Shetty


Ramya01

01/01/2001

Sign Up

Have an account? [Log in](#)

Signup OTP:-




Enter Confirmation Code

Next

Have an account? [Log in](#)

Forget Password Page:-




Trouble Logging In?

Next

Have an account? [Log in](#)

OTP Page:-

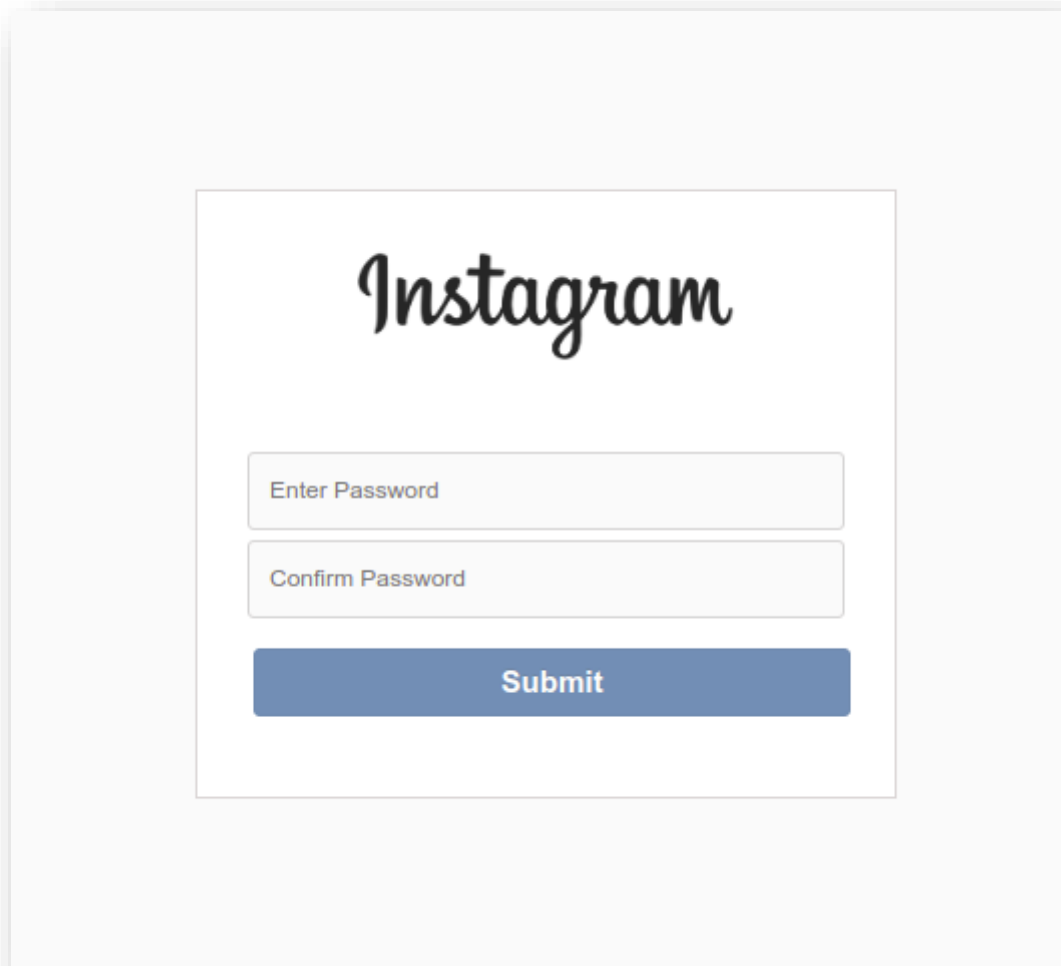


Enter Confirmation Code

Next

Have an account? [Log in](#)

New Password Page:-



The image shows a UI mockup for a 'New Password' page. It features a central white card with rounded corners and a subtle drop shadow, set against a light gray background. At the top of the card is the 'Instagram' logo in its signature script font. Below the logo are two stacked text input fields with light gray borders and rounded corners. The first field is labeled 'Enter Password' and the second is labeled 'Confirm Password'. At the bottom of the card is a solid blue rectangular button with the word 'Submit' in white, centered text.

Instagram

Enter Password

Confirm Password

Submit

Password Change Page:-

localhost says
Passord Changed

OK

Instagram

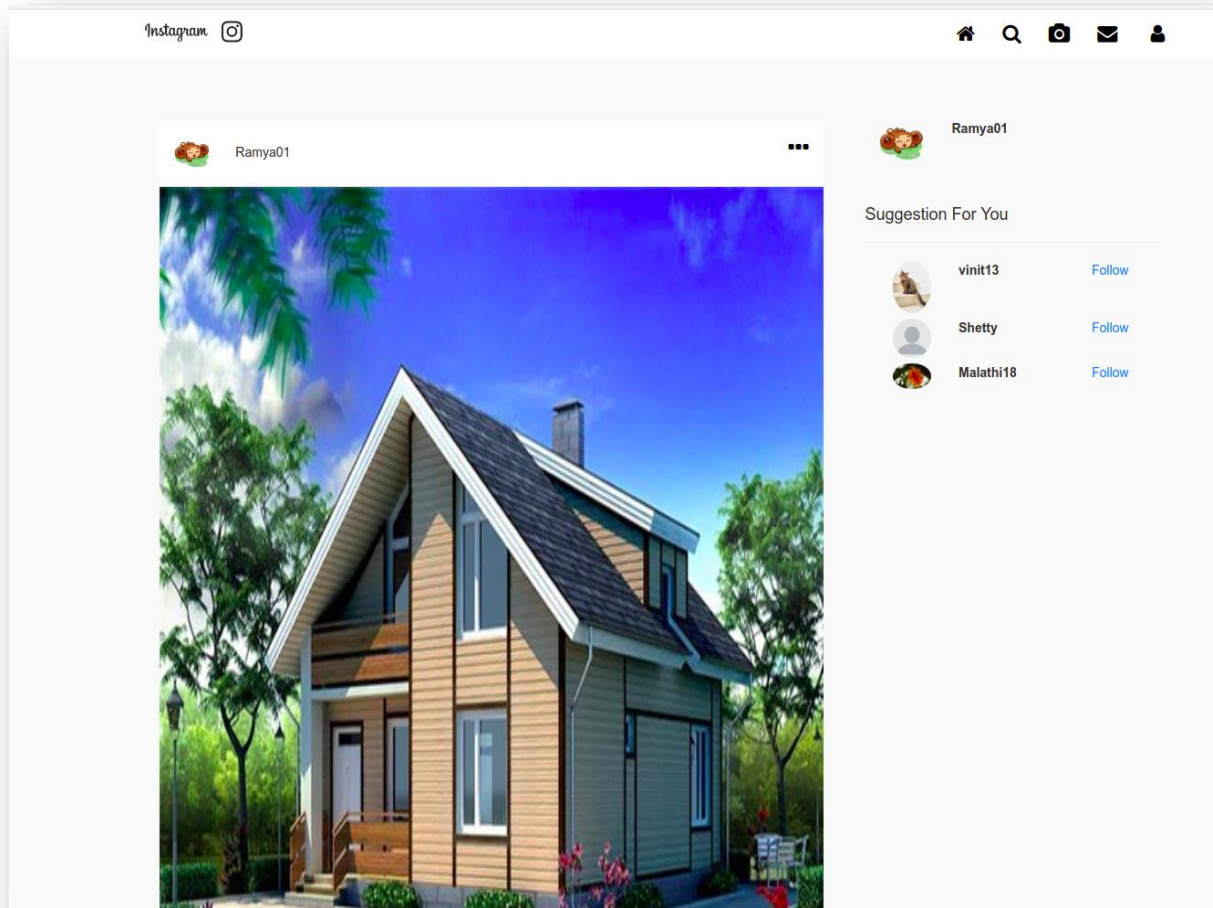
Log in

OR

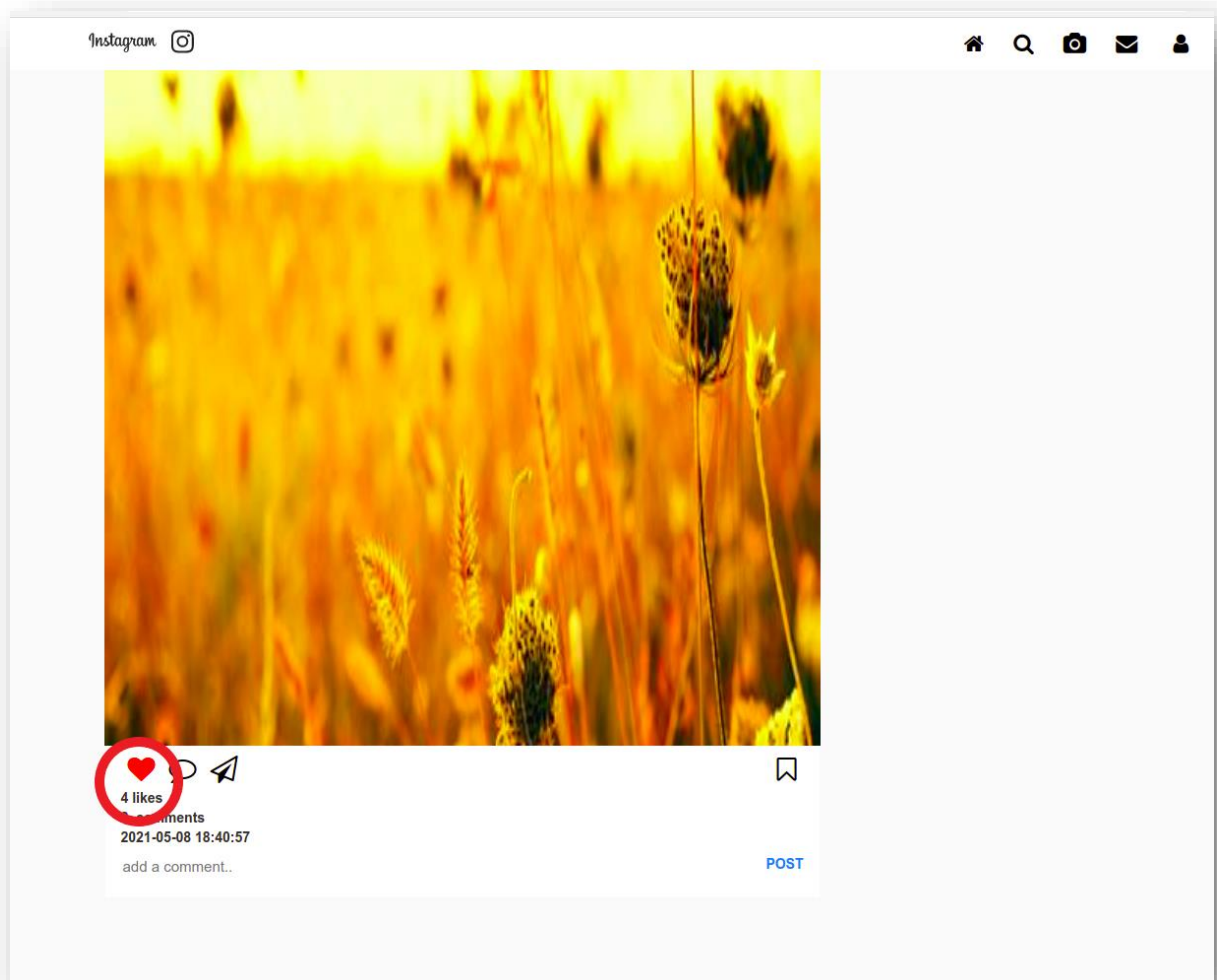
[forgot password ?](#)

Don't have an account? [Sign up](#)

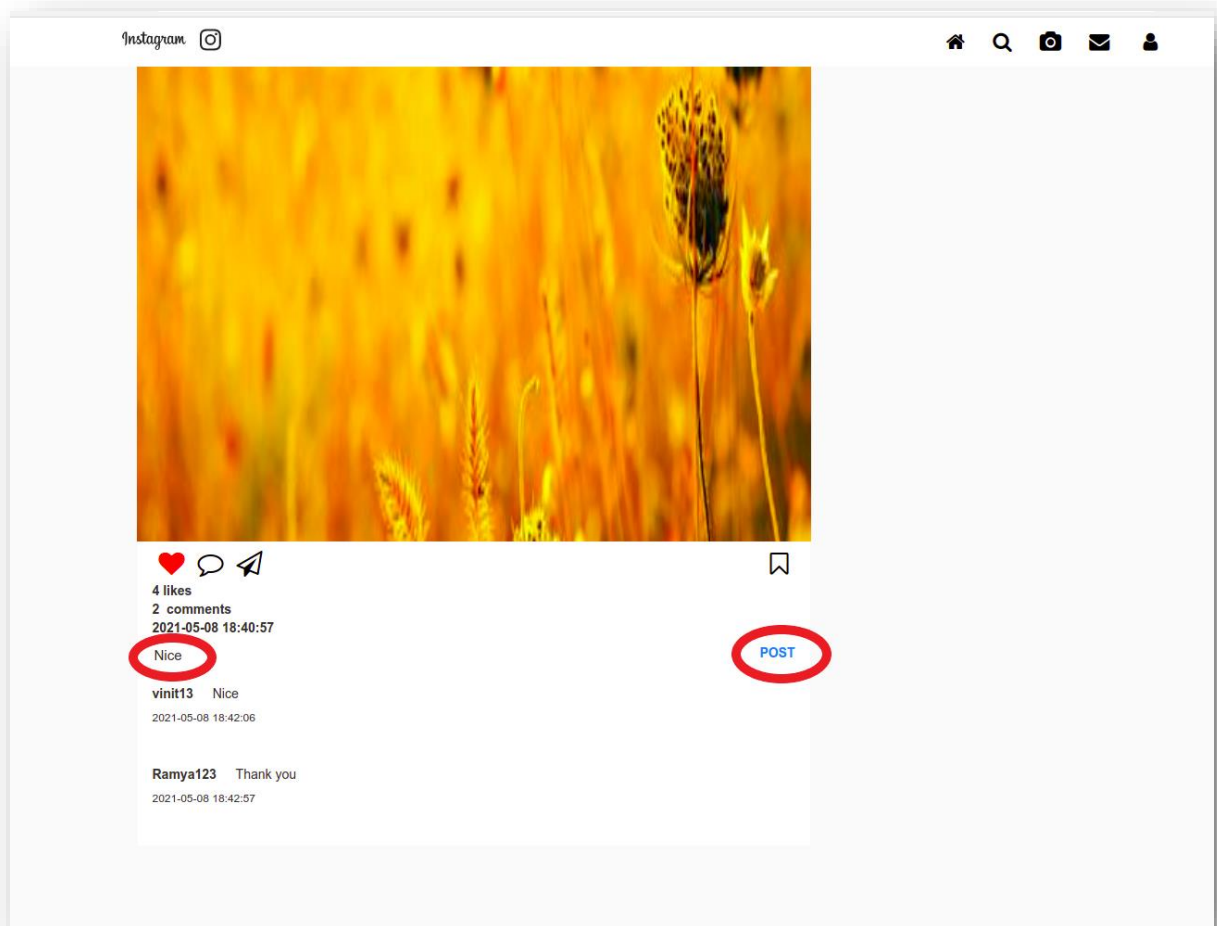
Home Page:-



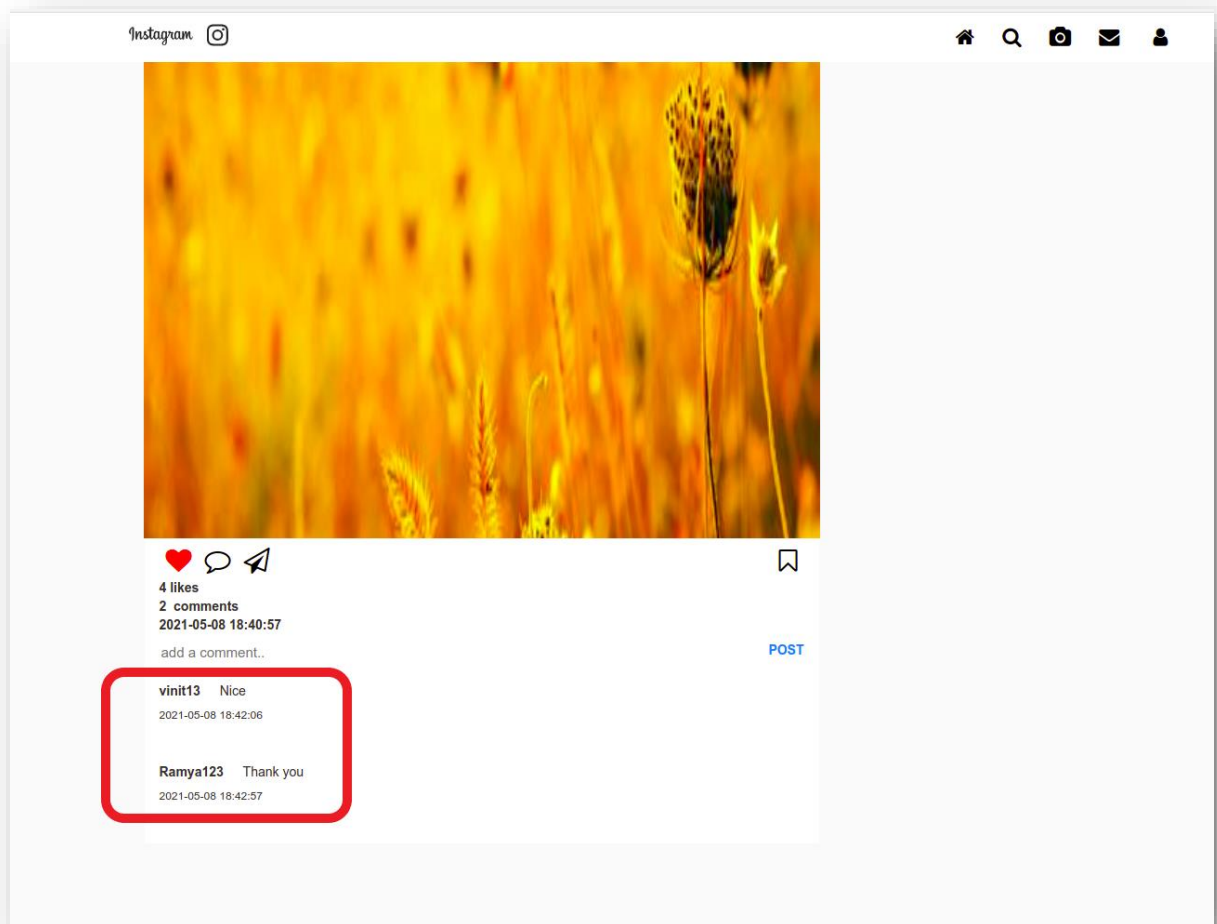
Like Post:-



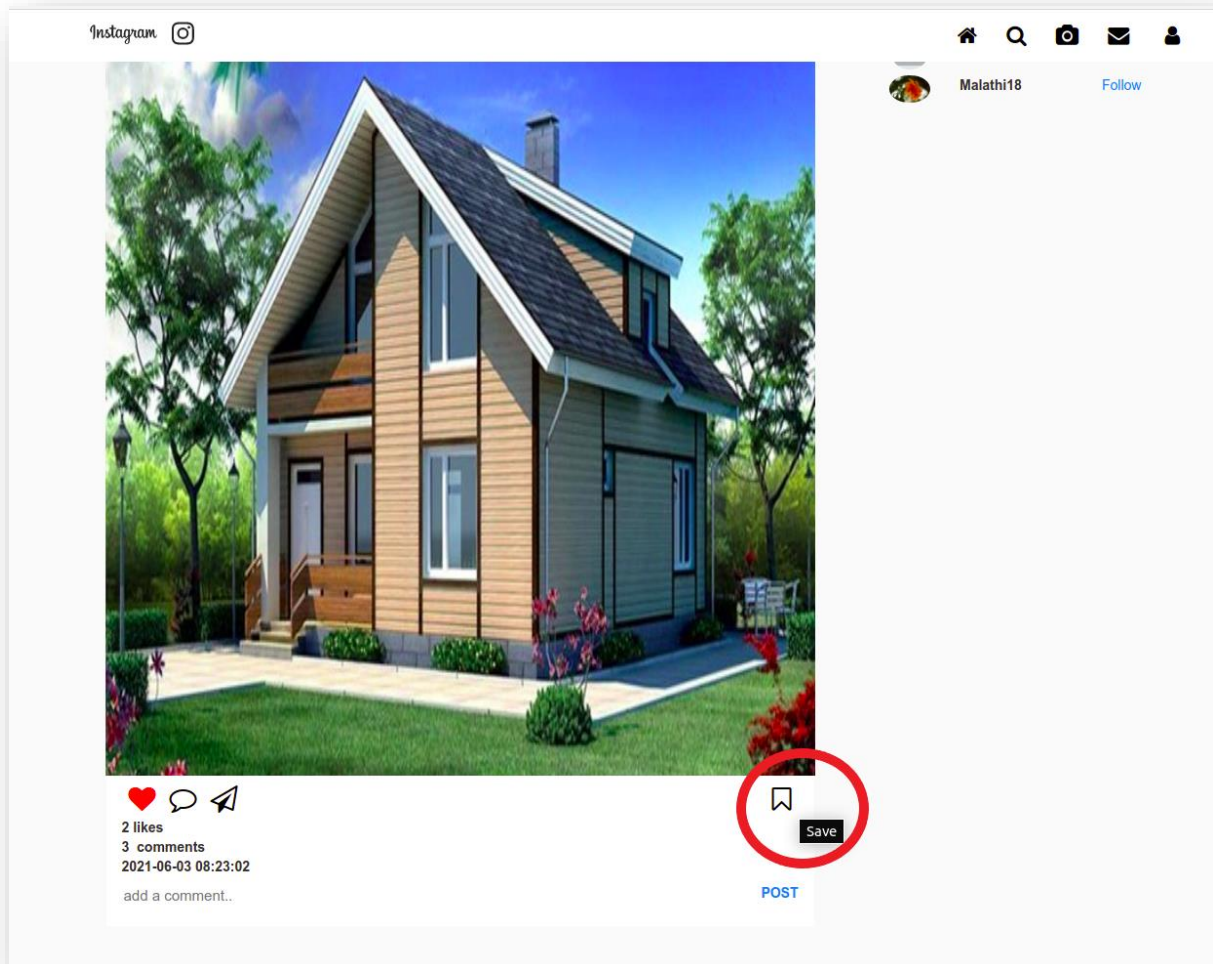
Comment Post:-



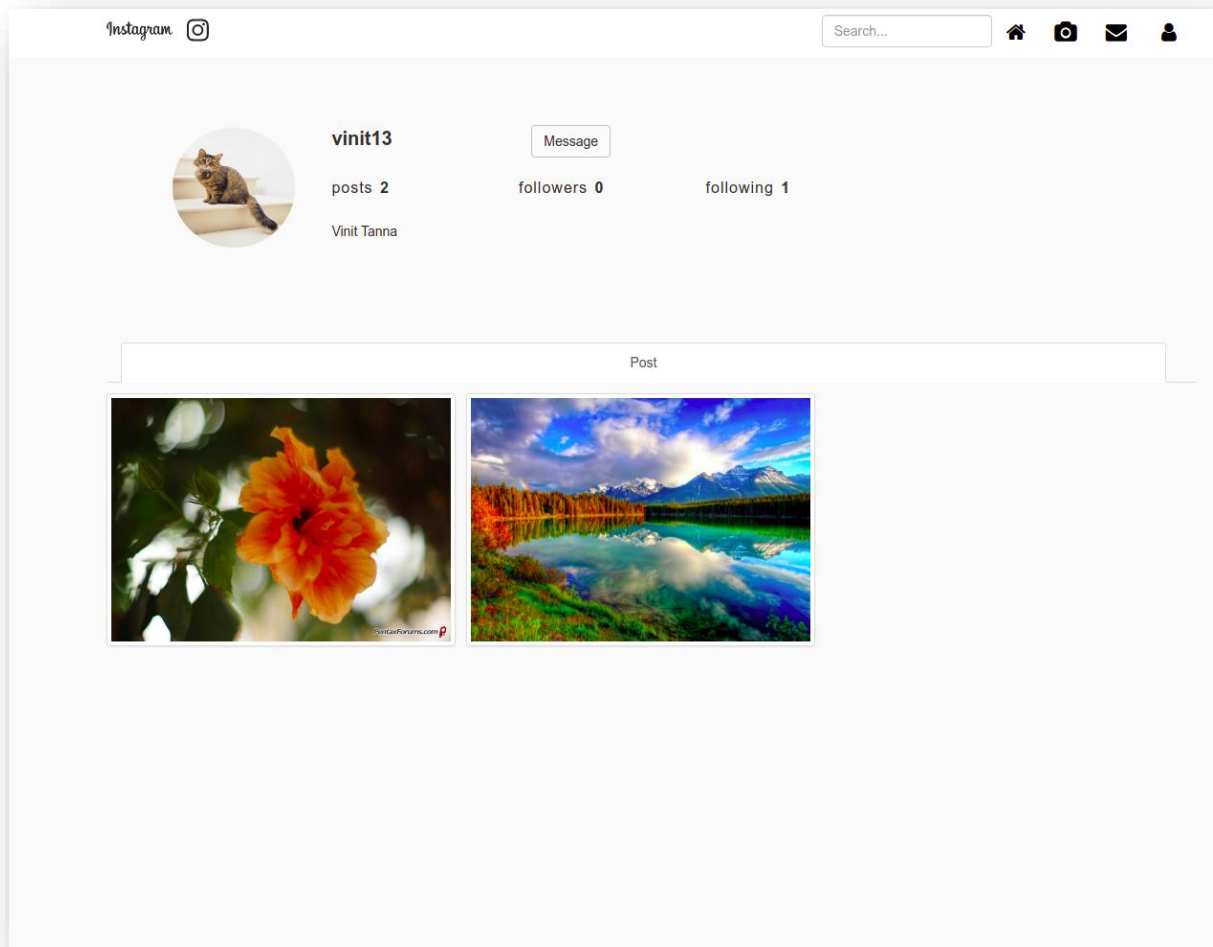
Comments Display:-



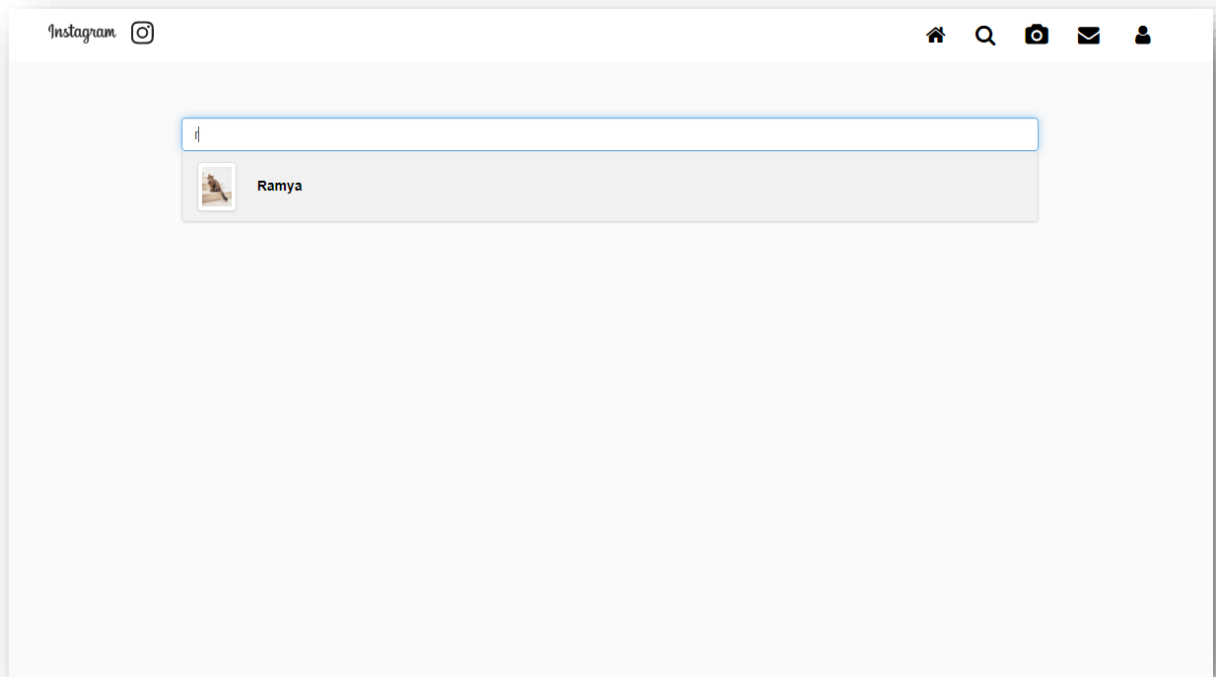
Save Post:-



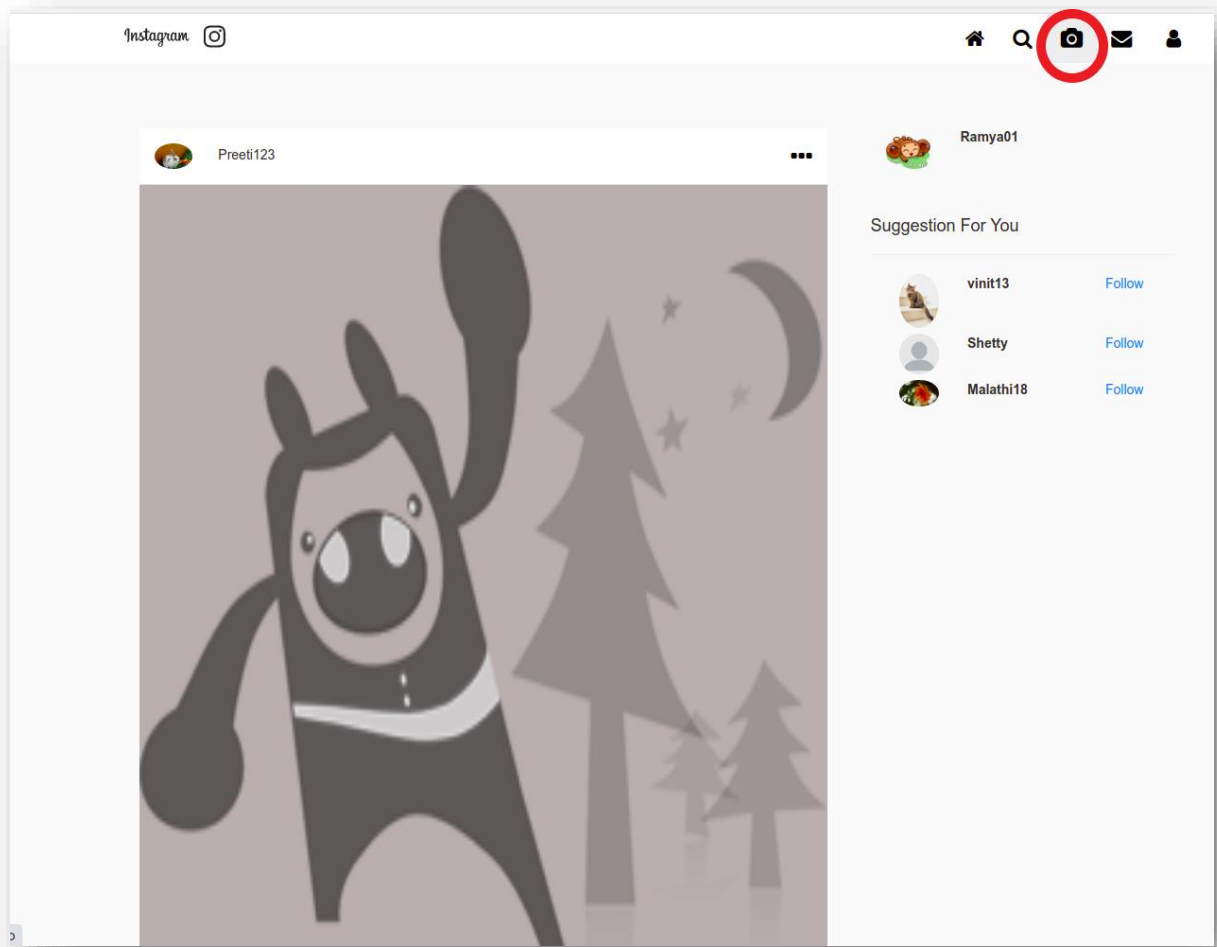
Friend's Page:-



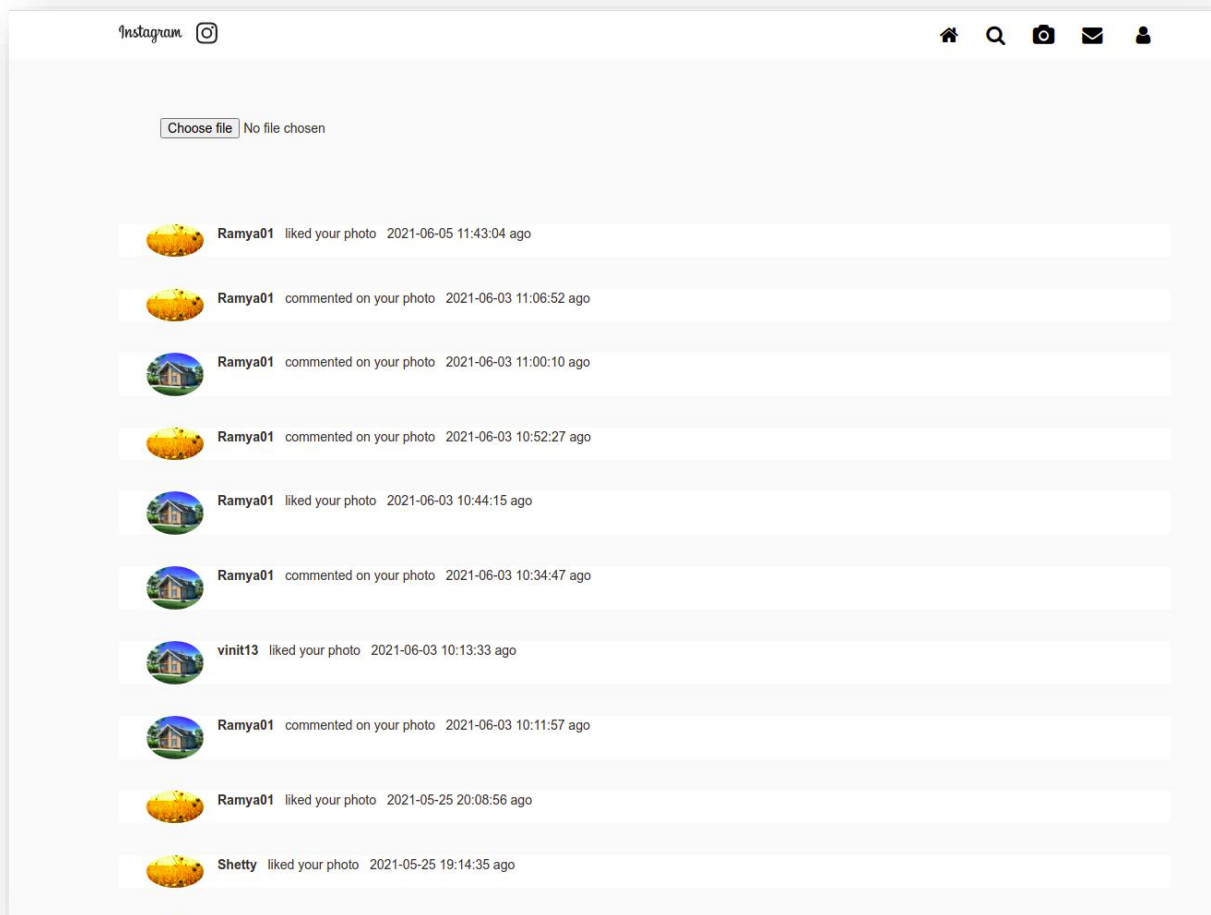
Search bar:-



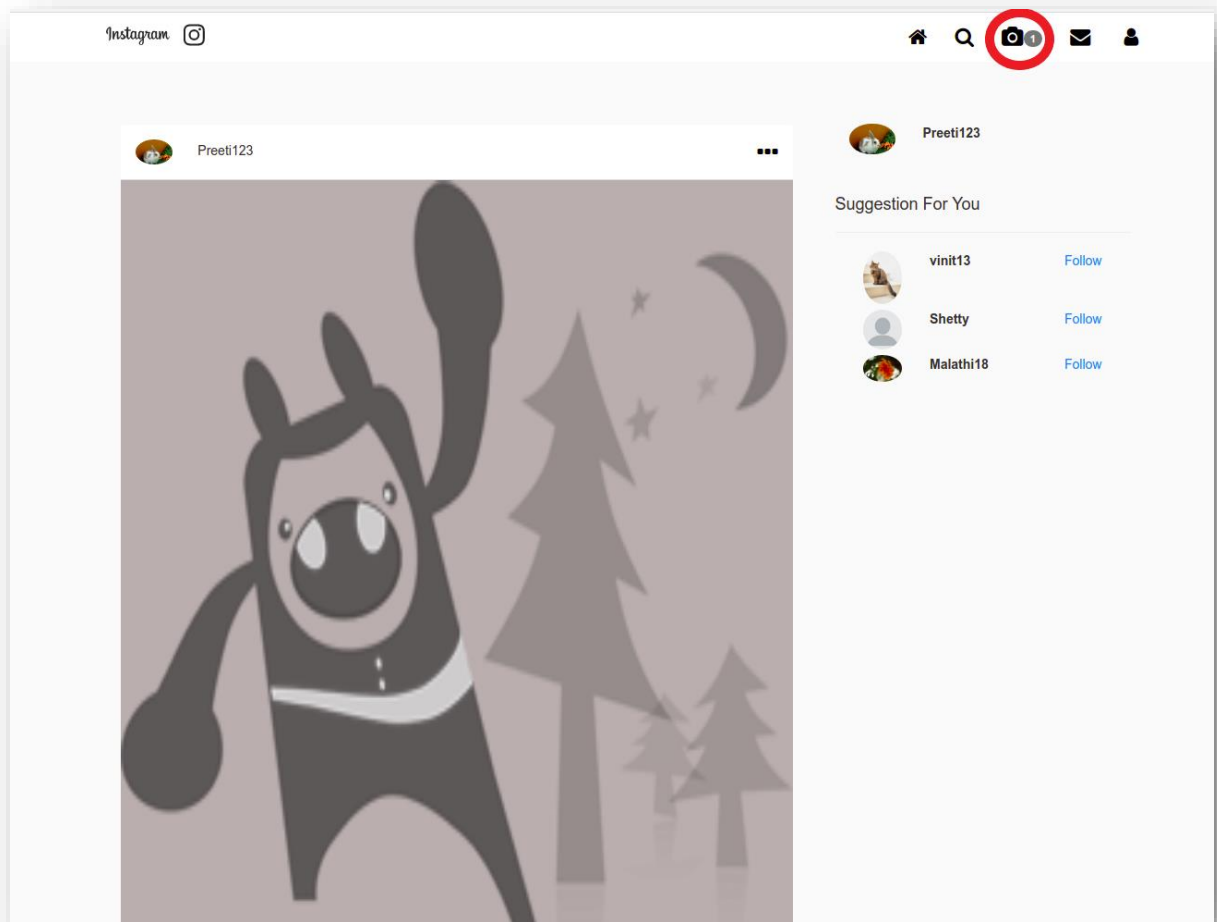
Upload Photo:-



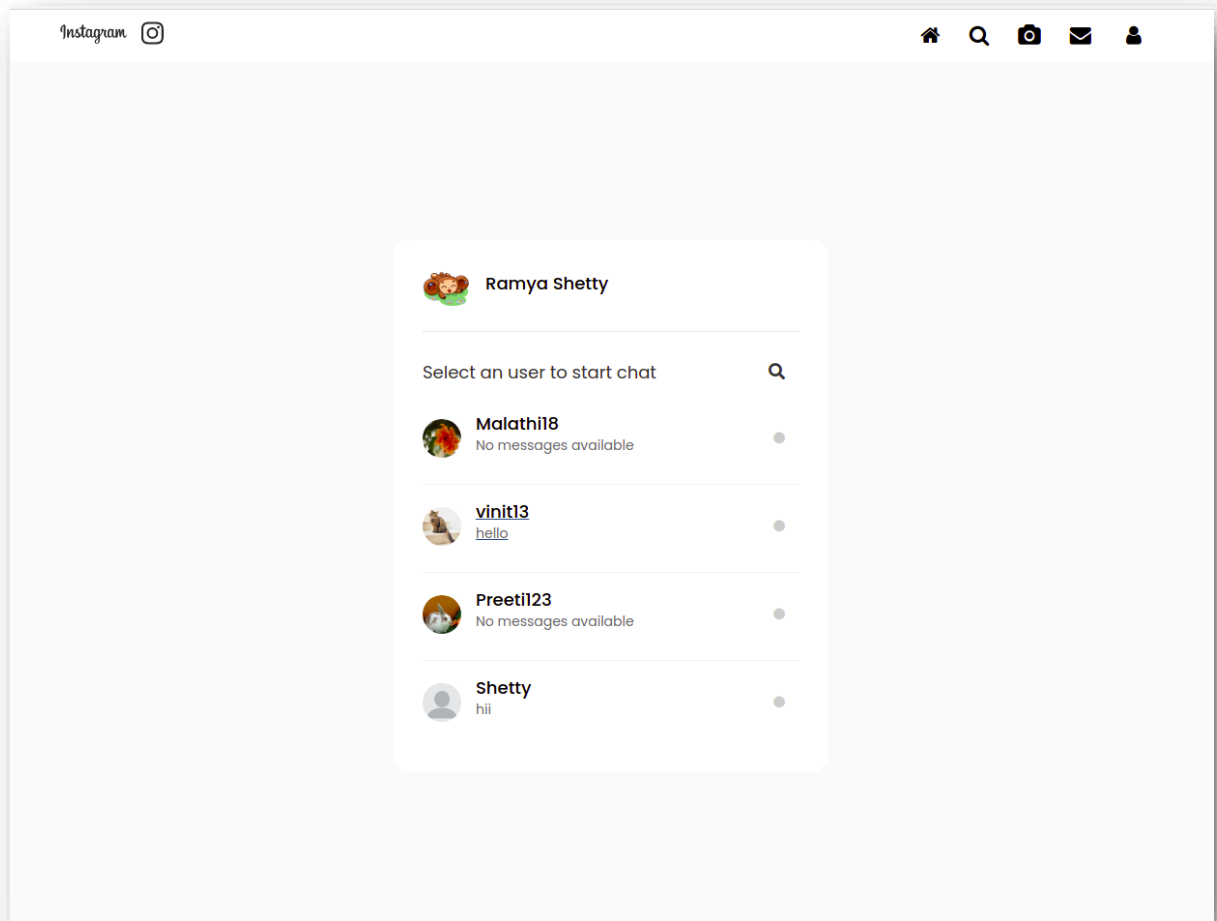
Upload / Notification Page:-



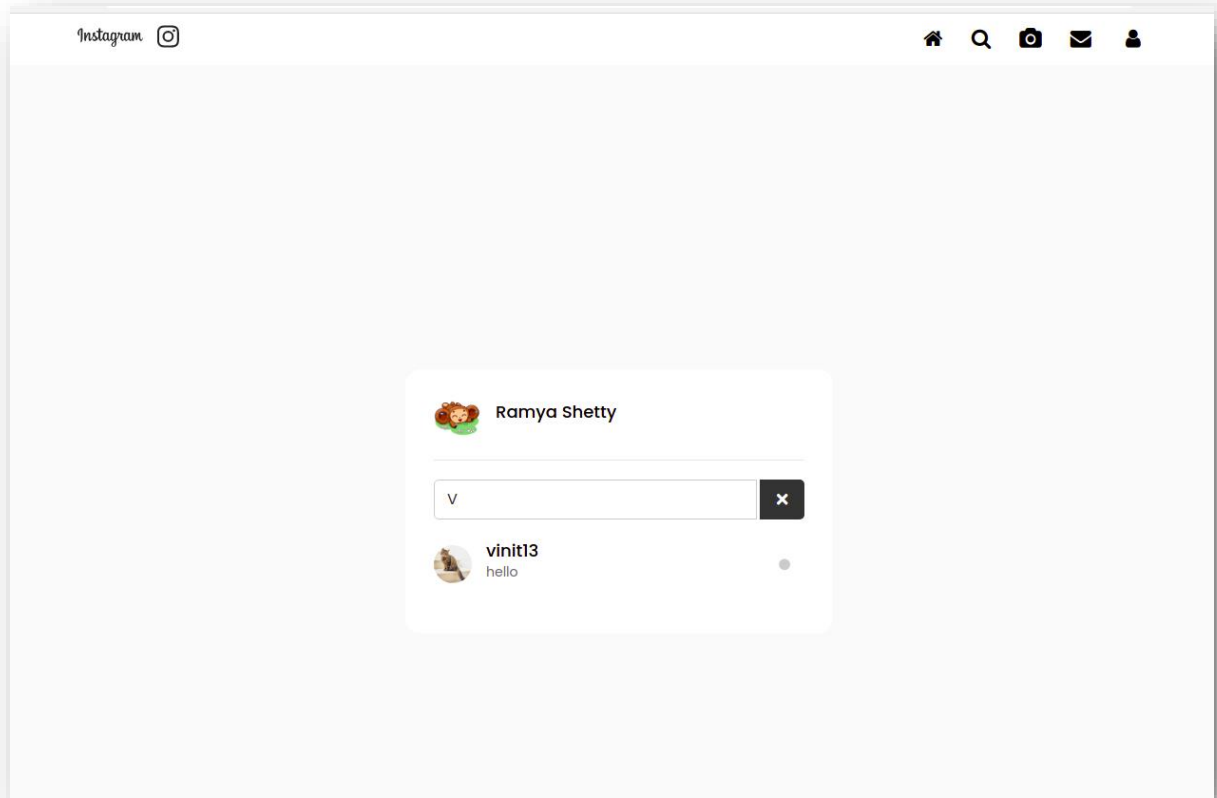
Notification Count:-



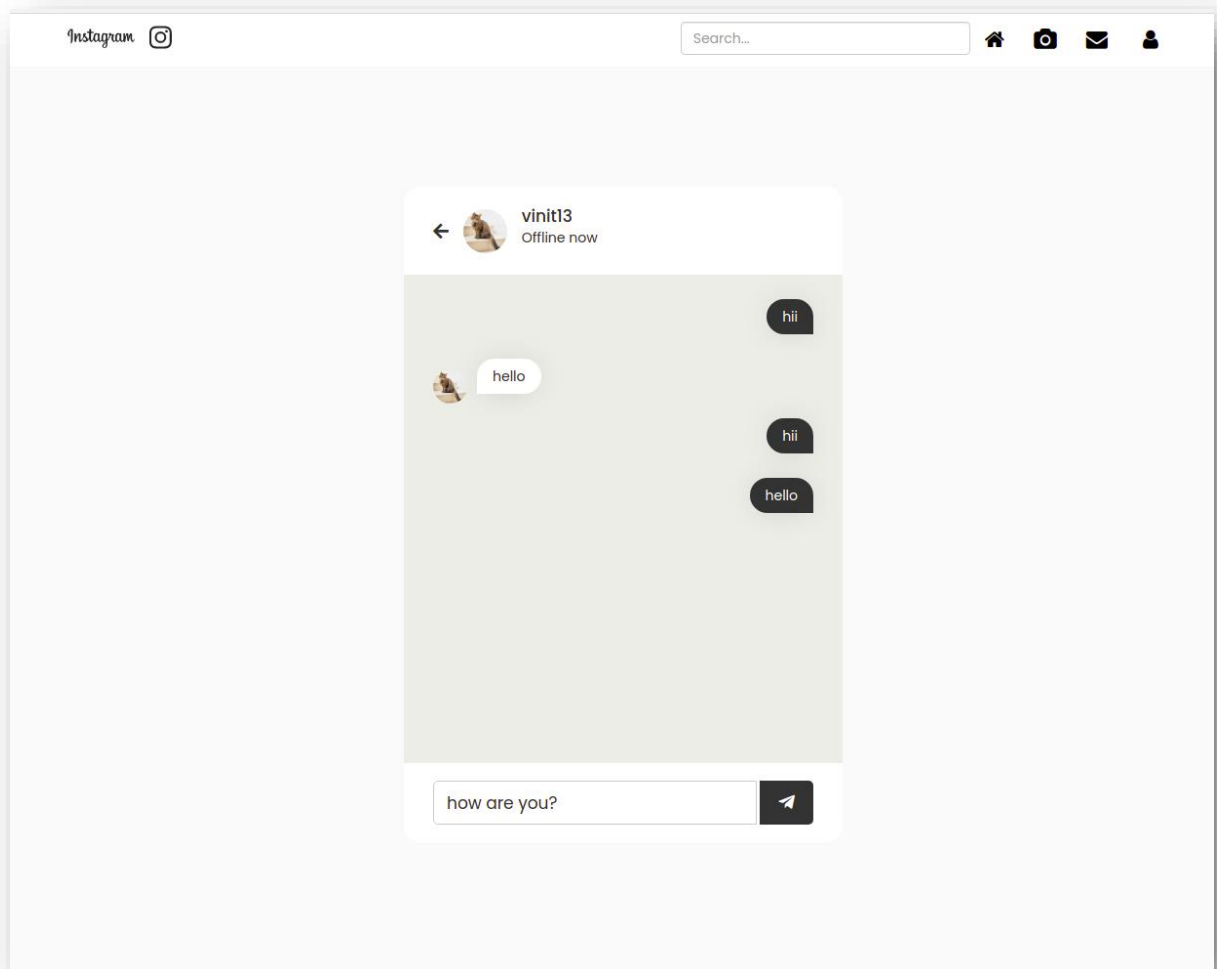
Message Page:-



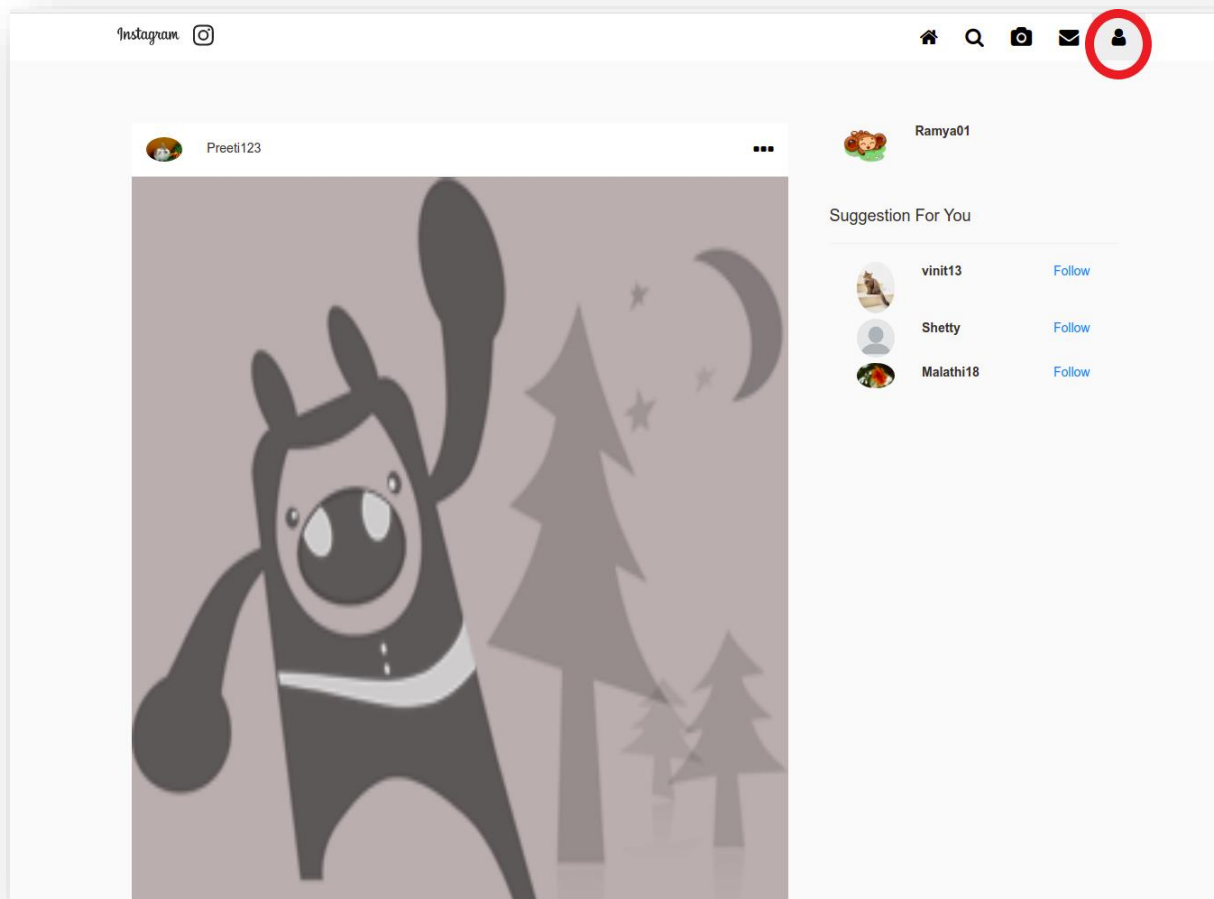
Message Search bar:-



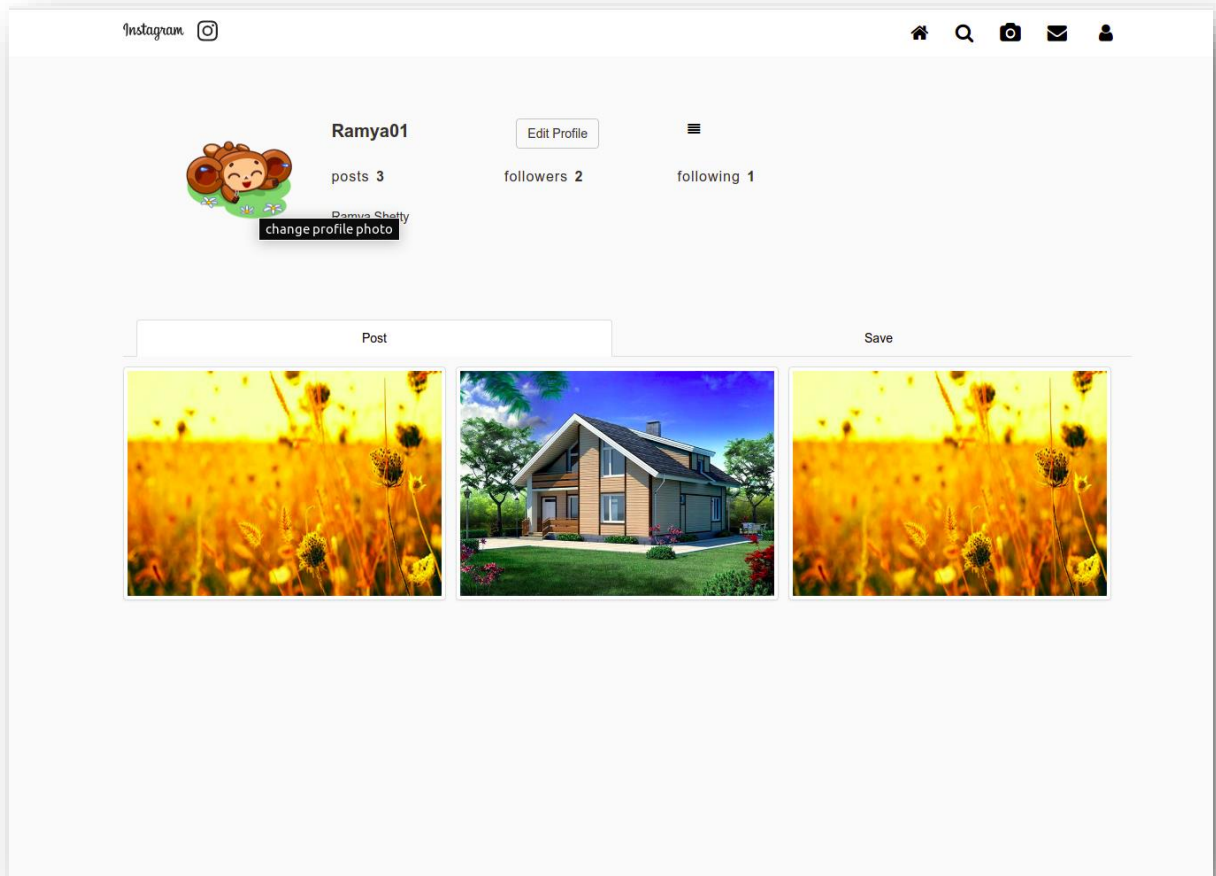
Chat Page:-



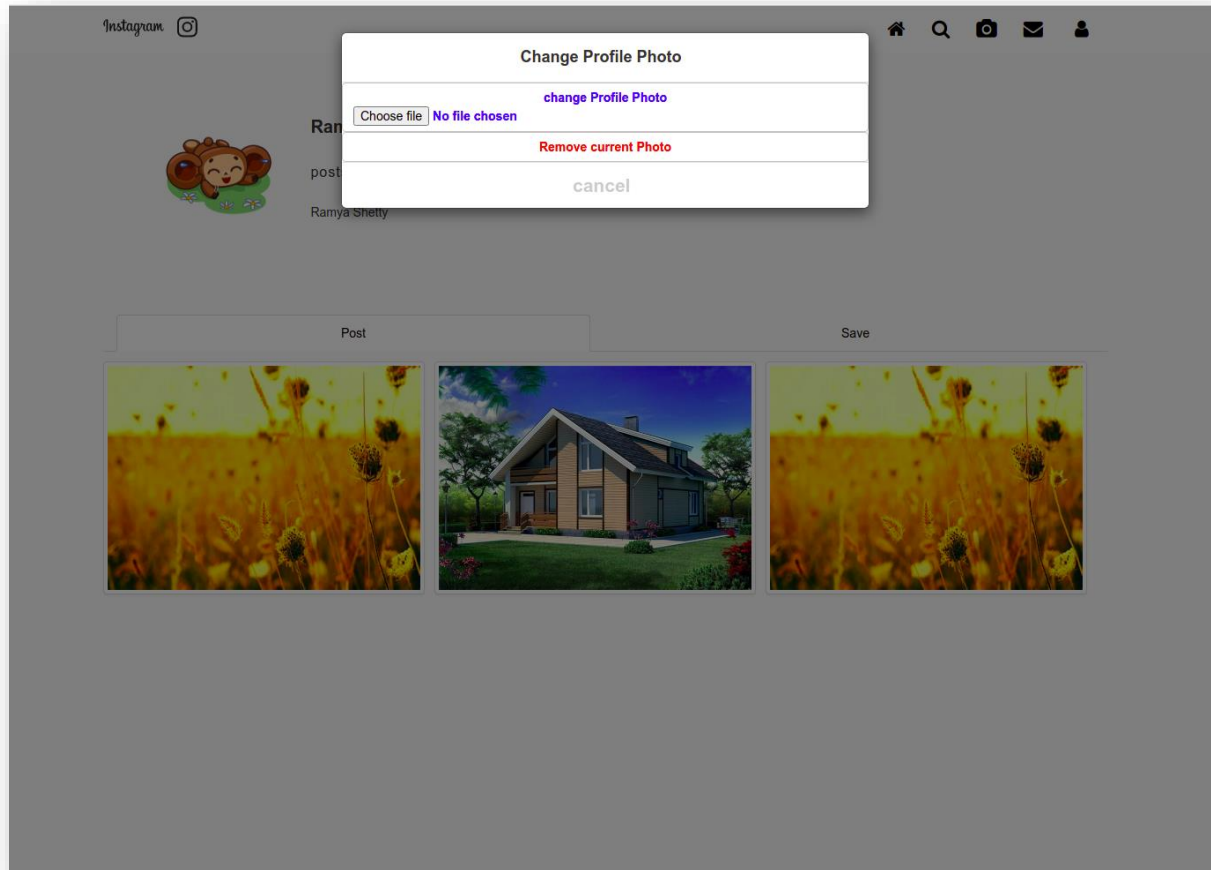
Profile Page:-



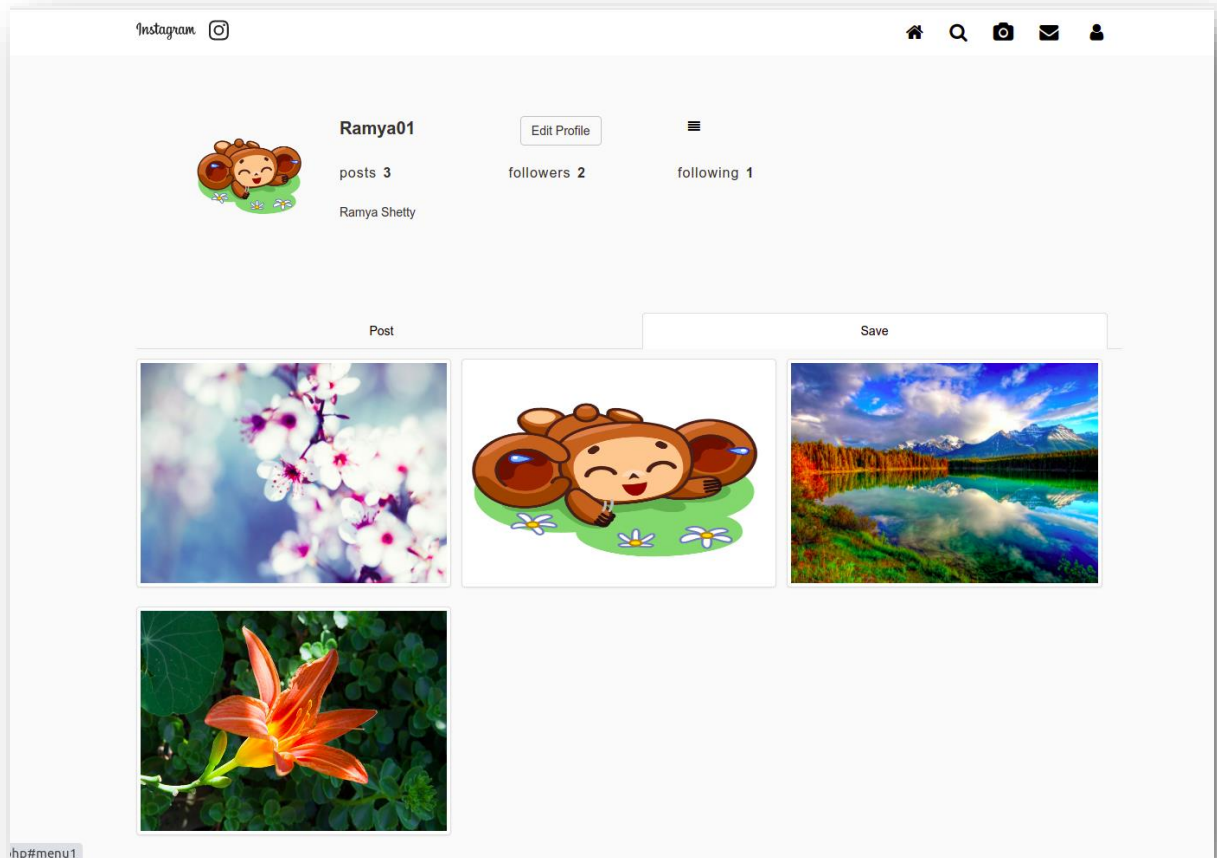
Profile:-




Change Profile Photo:-







Save Section:-




Edit Profile:-

Instagram 

Search...





Ramya01

Name


Username

Password

Email

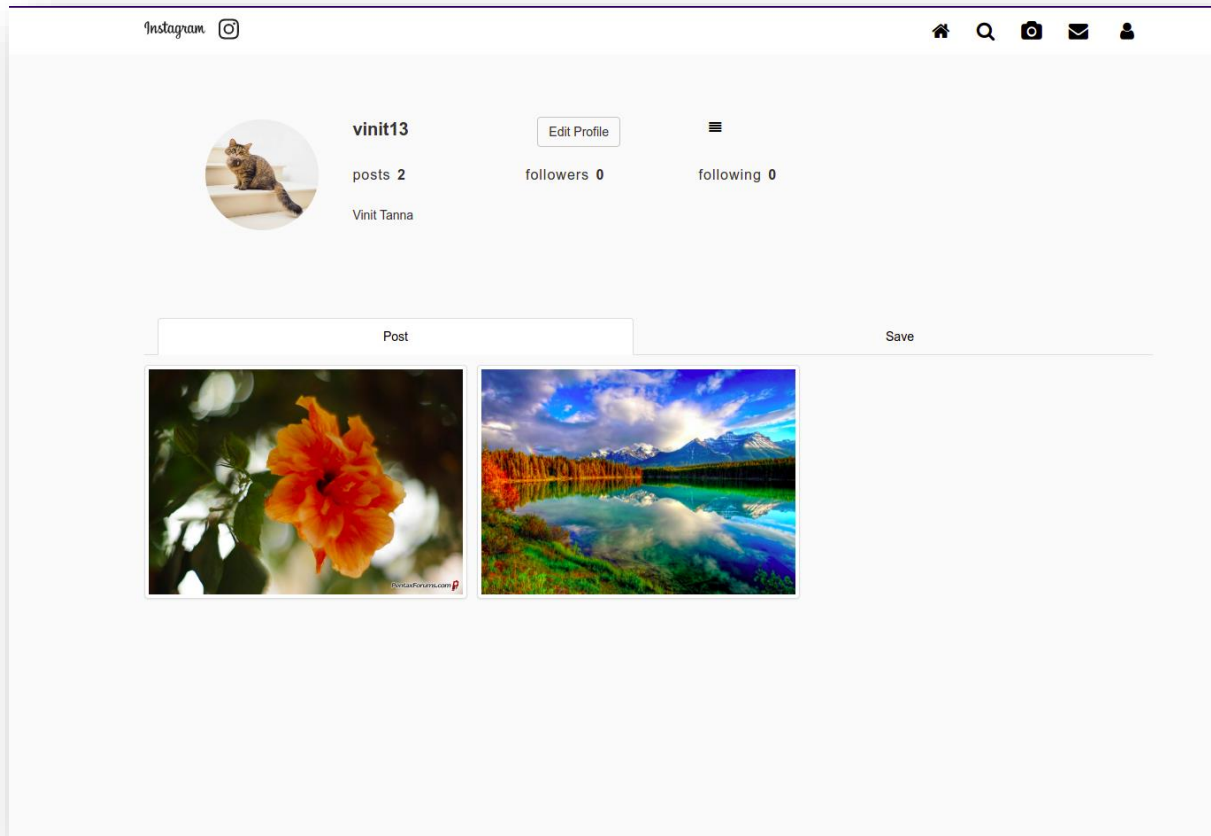
Phone Number

Birth Date

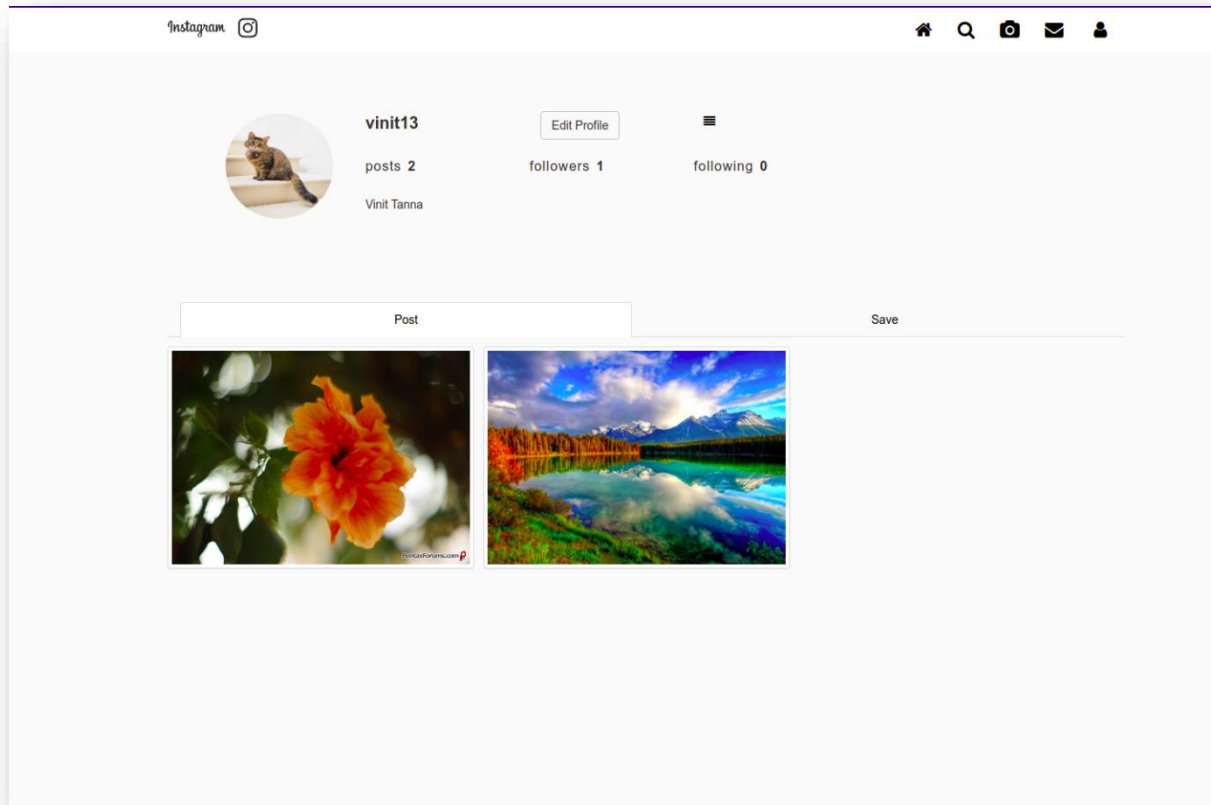


Submit

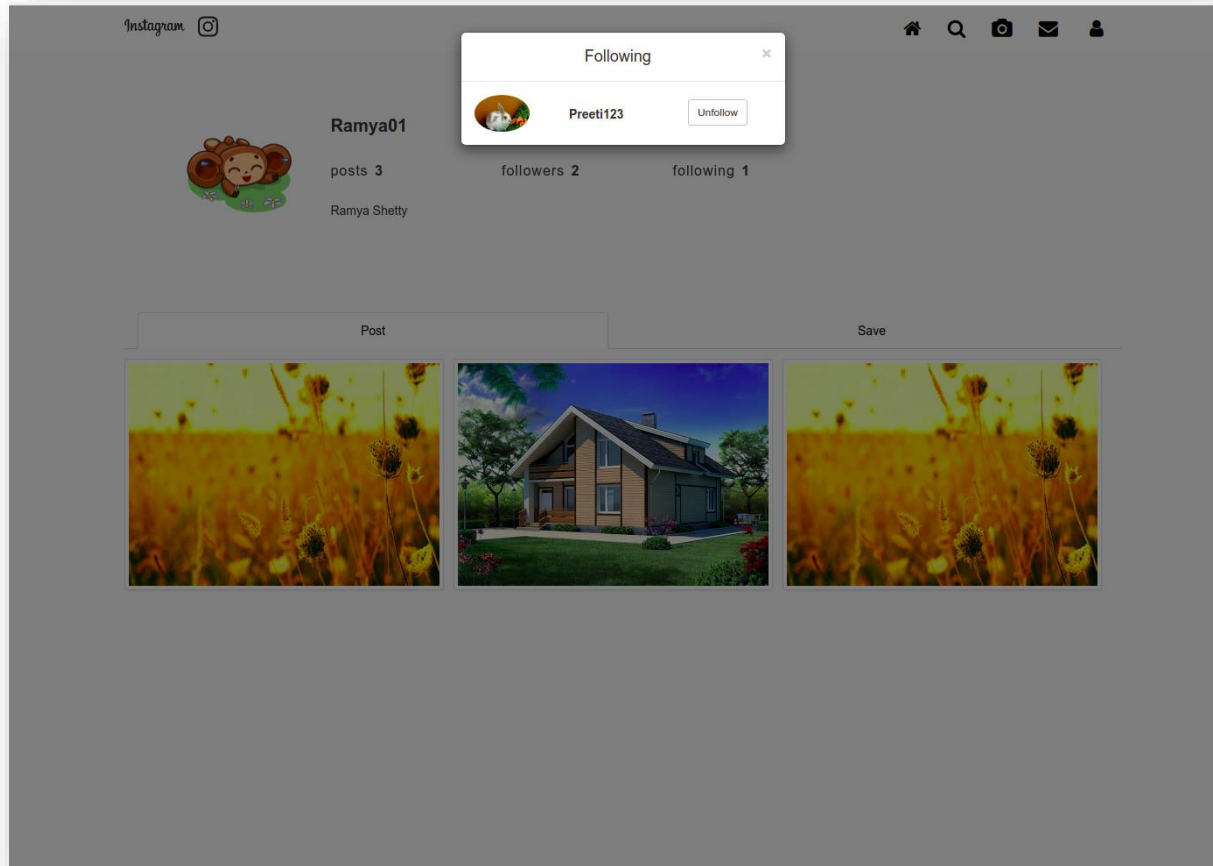
Follow :-



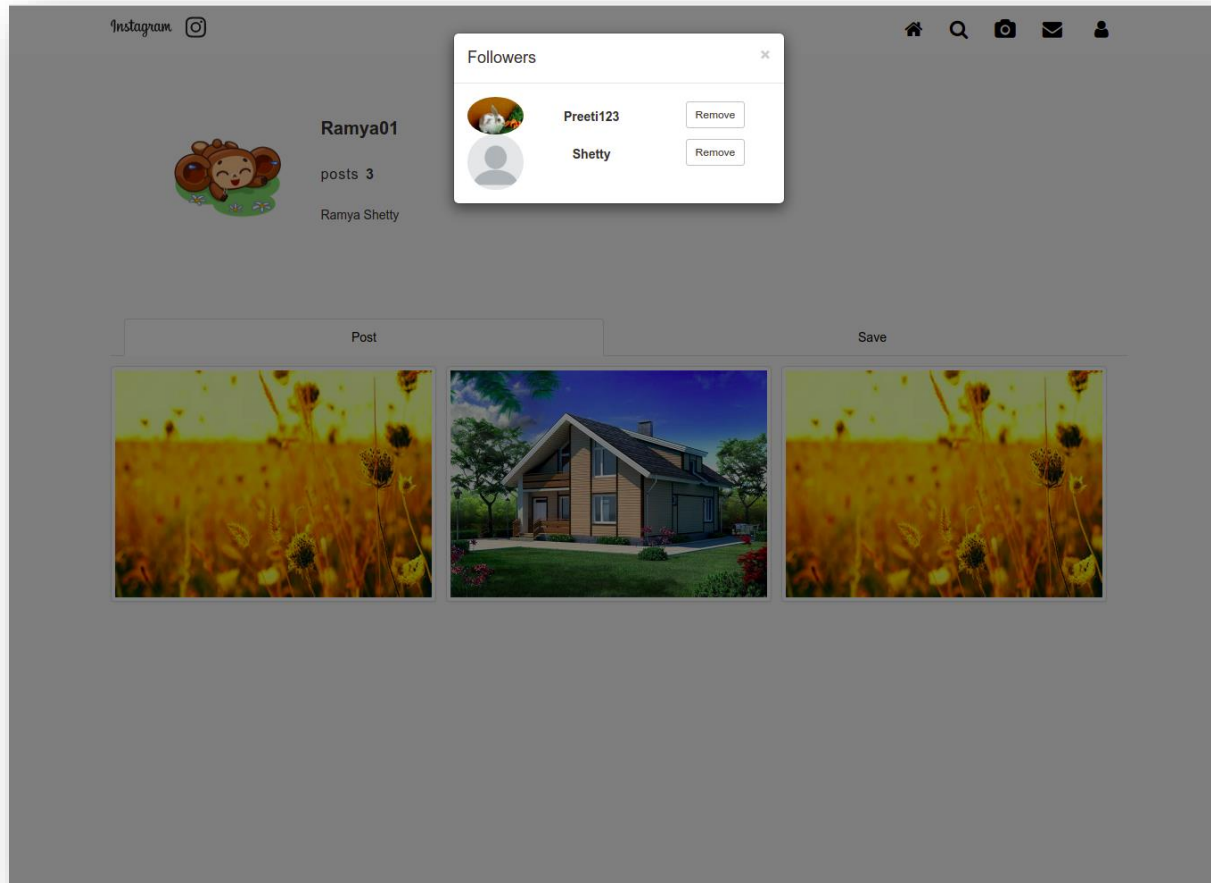
Follow Update:-



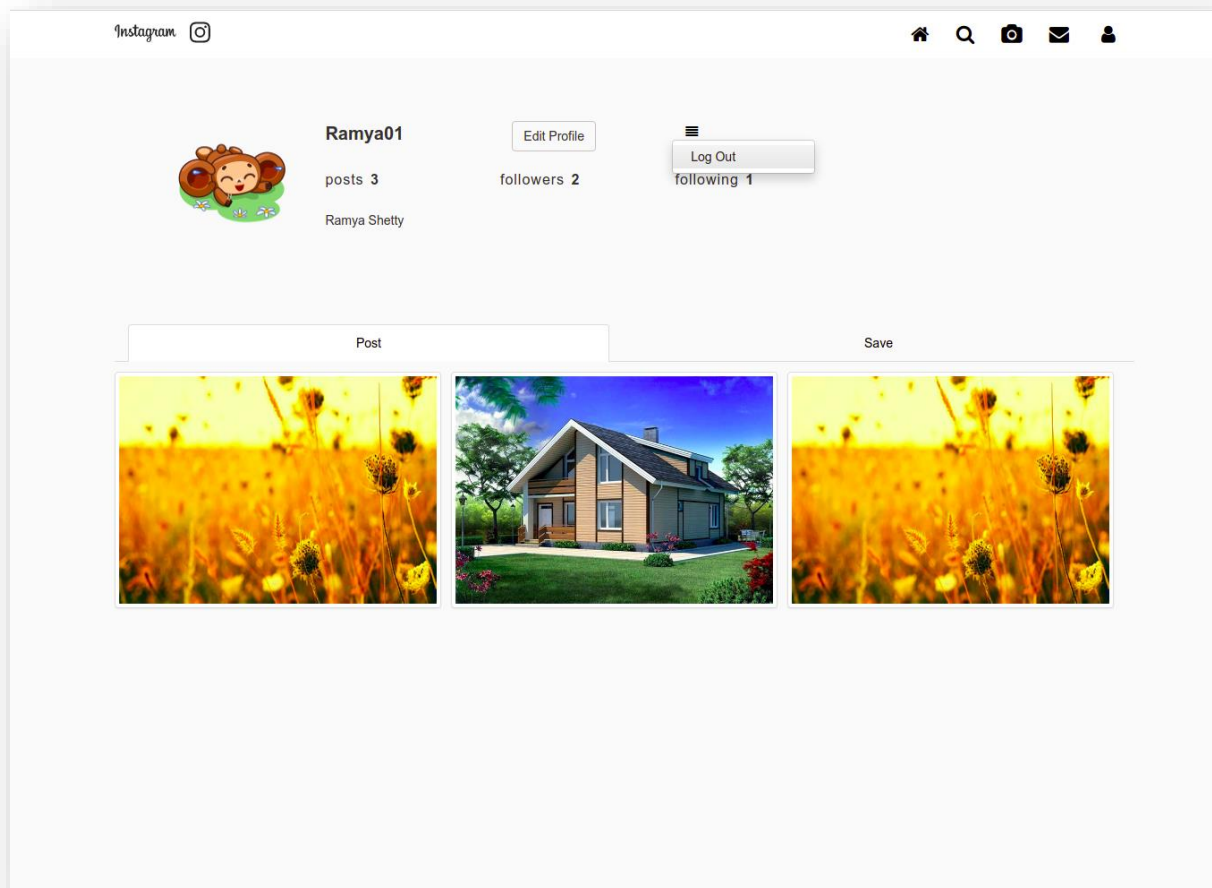
Following List:-



Follower's List:-



Logout:-



Limitations

- One cannot set his/her profile to private so no one (other than followers) can see the photos uploaded by user.
- We cannot send audio, video or documents through the chat module.
- One cannot post the videos.
- Cannot tag our friends in the photos.
- On giving like to the post the web page refreshes.
- Notification is not available on receiving messages.

Future Enhancement

- Make UI more enhanced and simple.
- Give options for the users to make their profile private or public.
- Provide options to block the users.
- Enable option to post videos.
- Send photos, videos and documents through chat.
- Delete / remove post.
- Give notification to the users about message.

Bibliography

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- <https://getbootstrap.com/>
- <https://fontawesome.com/>
- <https://getcomposer.org/>