Pigeonesis.

A PROJECT REPORT

Submitted in partial fulfillment for the award of the degree of

B.TECH

in

Computer Science & Engineering

By

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Under the Guidance of

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DECLARATION BY THE CANDIDATES

We hereby declare that the project report entitled "Piegonesis" submitted by me to VIT University, Vellore in partial fulfillment of the requirement for the award of the degree of **B.Tech.(CSE)** is a record of Jth component of project work carried out by me under the guidance of **Prof. Dr. Senthilkumar N.** We further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university.

Place: Vellore

Date:04 -06-2021 Parekh Saloni, Deshpande Arnav Sunil

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1. Introduction

1.1 Background

In this time of COVID-19, everyone is away from their friends, family and loved ones. In this challenging period the thing that keeps us all connected is the various ways of communication in which Social Media plays a very big part. We have various social media websites like Twitter, Whatsapp, Instagram, Facebook and a lot more. So we took our inspiration from them and decided to make a social media website from whatall we learned in Internet Web Programming. We decided to name the website as Pigeonesis based upon our history where pigeons were used as a carrier for messages. They were often known as messengers. This website will basically allow people to be a part of their loved ones life by knowing what's going on in their lives through their posts and pictures. They can even like the picture if they find it beautiful and good.

1.2 Objective of the Project

We all know how important Relationship building is. And what's better than a social media website to form connections. Social networking can help people find and build relationships with other thought leaders and influential individuals and brands. It's all about getting to know one another and staying connected to each other and their lives. It is definitely a medium where people can share a part of their life to the people whom they consider family and friends. In this project we have accommodated the features like a person can share posts and the other persons can like the post. Also the person can set up his profile. He can also search for other people's profiles. We have also taken care that if someone posts something unethical or disturbing then that person can also be blocked. Also we can update the posts made. There are also certain restrictions like a person can like the other person's post only once. Also the admin interface that has been created takes this to a whole new level.

1.3 Organization of Report

In this report we have started with mentioning what our project is and why we have chosen this project and how it is useful. Also in the report we have shown our project schedule and how over the course of time how we have managed to complete it. Also we have attached screenshots of how our project website actually

looks like. Also Code Snippets have been attached in the report. Along with all this the requirements for our project have also been mentioned in this report along with our final output. Lastly the references as well as conclusions have also been mentioned.

2. Overview and Planning

2.1 Proposed System Overview

As proposed in Review - 0, we decided to get done with the solid HTML CSS codes till Review-1 along with incorporating all the specifications expected in Review-1. Then during the time between Review-1 and Review-2 we decided to convert the solid HTML CSS codes to Django framework and also validate all the forms and start with the database. And for the Review-3 we decided to host the website and link the frontend with the backend and implement the search option and show the complete implementation of our project in Review-3.

2.2 Hardware Requirements

Hardware Requirements constitute any working OS, a functioning Boot Device, and sufficient RAM (sufficient enough for the browser to run). Here are the Hardware Specifications of the System, that we ran the Project smoothly on:

Host Name: LAPTOP-5KRUKS1R Microsoft Windows 10 Home Single Language OS Name: OS Version: 10.0.19042 N/A Build 19042 OS Manufacturer: Microsoft Corporation OS Configuration: Standalone Workstation OS Build Type: Multiprocessor Free Registered Owner: N/A Registered Organization: N/A Product ID: 00327-35101-26458-AAOEM Original Install Date: 26-03-2021, 01:46:32 System Boot Time: 02-06-2021, 14:15:22 System Manufacturer: ASUSTEK COMPUTER INC. VivoBook 15 ASUS Laptop X507UAR System Model: System Type: x64-based PC 1 Processor(s) Installed.
[01]: Intel64 Family 6 Model 142 Stepping 9 GenuineIntel ~2304 Mhz Processor(s): American Megatrends Inc. X507UAR.303, 21-05-2019 BIOS Version: C:\WINDOWS Windows Directory: System Directory: C:\WINDOWS\system32 Boot Device: \Device\HarddiskVolume7 System Locale: en-us; English (United States) Input Locale: 00004009 Time Zone: (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi 3,978 MB Total Physical Memory: Available Physical Memory: 805 MB Virtual Memory: Max Size: 10,634 MB Virtual Memory: Available: 5,286 MB Virtual Memory: In Use: 5,348 MB Page File Location(s): D:\pagefile.sys WORKGROUP Domain: Logon Server: \\LAPTOP-5KRUKS1R Hotfix(s): 7 Hotfix(s) Installed. [01]: KB4601554 [02]: KB4562830 [03]: KB4577586 [04]: KB4580325 05]: KB4589212 06]: KB5003173 [07]: KB5003242

```
Network Card(s):
                           1 NIC(s) Installed.
                           [01]: Qualcomm Atheros AR956x Wireless Network Adapter
                                 Connection Name: Wi-Fi 2
                                 DHCP Enabled:
                                                  Yes
                                 DHCP Server:
                                                  192.168.0.1
                                 IP address(es)
                                 [01]: 192.168.0.102
                                 [02]: fe80::e957:7222:de2d:aad2
                           VM Monitor Mode Extensions: Yes
Hyper-V Requirements:
                           Virtualization Enabled In Firmware: Yes
                           Second Level Address Translation: Yes
                           Data Execution Prevention Available: Yes
```

2.3 Software Requirements

Software Requirements for the Project are:

1. Virtual Environment - pipenv.

Can be installed by the command "pipenv install"

Can be activated by the command "pipenv shell"

- 2.Python 3 installed.
- 3.Django 3 installed.
- 4. Dotenv Installed.
- 5. To host the Project on the Local Server:

Go to the Source Folder and type -

"python manage.py makemigrations"

"python manage.py migrate"

"python manage.py runserver"

6. The Site can be enjoyed at your Localhost, on your desired browser.

2.4 Project Schedule (Gantt chart)

ACTIVITY	WEEKS			
	WEEK-1 & 2	WEEK-3 & 4	WEEK-5 & 6	WEEK-7 & 8
TOPIC FINALIZATION	~			
SOLID HTML AND CSS FOR WEBPAGES	4			
VALIDATION OF FORMS		4		
CONVERTING THE SOLID HTML AND CSS PAGES TO DJANGO STYLE		~		
MAKING THE BACKEND IN SQLITE AND WORKING ON IT			~	
PARTIAL CONNECTION OF BACKEND AND FRONTEND			~	
COMPLETE CONNECTION OF BACKEND AND FRONTEND				~
WEB HOSTING				4
FINAL PROJECT				4

3. System Implementation

3.1 Code and/or Architecture Development

The Entire Code along with dependencies, can be accessed at <u>our Github Link</u>.

A few important pages have been pasted below:

(a) Few HTML files:

search.html

```
Django settings for facebook project.
Generated by 'django-admin startproject' using Django 2.2.5.
For more information on this file, see
https://docs.djangoproject.com/en/2.2/topics/settings/
For the full list of settings and their values, see
https://docs.djangoproject.com/en/2.2/ref/settings/
from os.path import join, dirname
from dotenv import load dotenv
```

```
dotenv_path = join(dirname(__file__), '.env')
load dotenv(dotenv path)
BASE DIR = os.path.dirname(os.path.dirname(os.path.abspath( file )))
SECRET KEY = "asdfasdfasdfasdfs"
DEBUG = True
ALLOWED HOSTS = ["rohanjnr.pythonanywhere.com", "localhost", "127.0.0.1"]
INSTALLED APPS = [
```

```
'facebook.apps.posts',
    'crispy forms'
MIDDLEWARE = [
```

```
TEMPLATES = [
        'DIRS': [os.path.join(BASE DIR, "facebook", "templates")],
WSGI_APPLICATION = 'facebook.wsgi.application'
DATABASES = {
```

```
'NAME': os.path.join(BASE DIR, 'db.sqlite3'),
AUTH PASSWORD VALIDATORS = [
```

```
LANGUAGE_CODE = 'en-us'
TIME ZONE = 'UTC'
USE I18N = True
USE_L10N = True
USE TZ = True
STATIC ROOT = 'static dep'
STATIC URL = '/static/'
STATICFILES DIRS = [
```

```
os.path.join(BASE_DIR, "facebook", "static")

l

MEDIA_ROOT = os.path.join(BASE_DIR, "facebook", "media")

MEDIA_URL = "/media/"

LOGIN_URL = "login"

LOGIN_REDIRECT_URL = "profile"
```

login.html

```
{% extends "base.html" %}

{% load static %}

{% block head %}

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

k
href="https://fonts.googleapis.com/css2?family=Poppins:ital,wght@0,200;1,3

00%display=swap" rel="stylesheet">

k
ref="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.14.0/css/all.m
in.css">

k
ink
href="https://fonts.googleapis.com/css2?family=Pacifico%display=swap"
rel="stylesheet">

k
ref="https://fonts.googleapis.com/css2?family=Pacifico%display=swap"
rel="stylesheet">

k
ref="https://fonts.googleapis.com/css2?family=Tangerine">
```

```
<link rel="stylesheet" href="{% static 'css/login-style.css' %}">
{% block content %}
    <div class="form-container">
       <div class="error-box">Display error here.</div>
       <div class="allPaper">
                <div class="exit">
                    <div class="exit2"></div>
                <form autocomplete="off" action="{% url 'register' %}"</pre>
method='POST'>
                    <div class="headding">sign up</div>
                    <div class="username">
                        <i class="fas fa-user"></i>
                    <div class="email">
```

```
<label for="s-email"><span>Email</span></label>
for="s-password"><span>Password</span></label>
Password</span></label>
                        <button>Sign Up</button>
```

```
id="login">login</button></span>
id="login"> <a href="contactus.html"> Contact us </a></button></span>
                       <div class="end"></div>
                   <div class="start-down">
               <div class="exit">
                   <div class="exit2"></div>
               <form autocomplete="off" method='POST'>
                   <div class="headding">login</div>
                   <div class="email">
```

```
<input type="text" name="username">
                      <label for="s-email"><span>Username</span></label>
                      <input type="password" name="password">
                      <label for="s-email"><span>Password</span></label>
                      <button>Log In
                  <div class="extra">
Sbutton id="signup">signup</button></span>
```

```
document.querySelector('.allPaper').classList.add('anim');
setTimeout(function(){document.querySelector('.paper').style.display="none
"},1200);
    document.querySelector('#login').addEventListener("click", (e) => {
        e.preventDefault();
        document.querySelector(".login-form").style.transition = "opacity
Os ease Os";
setTimeout(()=>{document.querySelector('.login-form').style.opacity =
"1";},0)
        document.querySelector(".allPaper").style.animation="cardFlipB 2s
ease forwards";
    document.querySelector('#signup').addEventListener("click",(e)=>{
        e.preventDefault();
         document.querySelector(".allPaper").style.animation="cardFlip 2s
ease forwards";
setTimeout(()=>{document.querySelector('.login-form').style.opacity="0";},
700)
    for(let i=0;i<2;i++)</pre>
```

```
document.querySelectorAll(".exit")[i].addEventListener("click",()=>{
    console.log("exit")
    window.location.href="./";
})

</script>
{% endblock %}
```

(b) Few CSS files:

about.css

```
@import
url('https://fonts.googleapis.com/css?family=ZCOOL+QingKe+HuangYou&display
=swap');
   margin: 0;
   padding: 0;
body{
main{
   background: orange;
   padding: 200px 200px;
   padding-top: 50px;
```

```
margin-top: -50px;
   height: 17rem;
   border-bottom: orangered 3px solid;
   text-align: center;
main p{
   margin: 10px;
   padding: 5px;
   font-size: 30px;
main img{
   width: 250px;
   height: 250px;
   border-radius: 50%;
section{
   text-align: center;
   padding: 5px;
section h2{
   font-size: 40px;
.project_img img{
```

```
width: 500px;
   height: auto;
   padding: 0;
   margin: 0;
   background: linear-gradient(45deg, orangered, yellow);
   margin: 40px 20%;
   padding: 0;
   display: grid;
   grid-template-columns: 1fr 1fr;
   grid-gap: 20px;
section h3{
   font-size: 32px;
   padding: 10px;
.description{
   text-align: left;
ul{
   list-style: square;
```

```
a {
   font-size: 30px;
   margin: 10px;
   display: grid;
   grid-template-columns: 1fr 1fr;
   font-size: 25px;
   list-style: none;
   grid-column-gap: -30px;
```

contactus.css

```
@import
url('https://fonts.googleapis.com/css2?family=Poppins:wght@200;300;400;500
;600;700;800;900&display=swap');

*
{
    margin:0;
```

```
padding:0;
   font-family:'poppins',sans-serif;
.contact
   position: relative;
   min-height:100vh;
   padding: 50px 100px;
   display:flex;
   justify-content:center;
   align-items:center;
   flex-direction:column;
   max-width:800px;
   text-align:center;
```

```
font-size: 36px;
font-weight: 500;
font-weight: 300;
width:100%;
display : flex;
align-items:center;
margin-top:30px;
width:50%;
display:flex;
flex-direction:column;
```

```
position:relative;
padding:20px 0;
display:flex;
min-width:60px;
height:60px;
display:flex;
align-items:center;
border-radius:50%;
display:flex;
margin-left:20px;
font-size:16px;
color:#fff;
flex-direction: column;
```

```
font-weight: 300;
.container .contactInfo .box .text h3
   font-weight: 500;
   padding: 40px;
.contactForm h2
   font-size: 30px;
   font-weight:500;
.contactForm .inputBox
   position: relative;
   width: 100%;
   margin-top:10px;
```

```
.contactForm .inputBox input,
.contactForm .inputBox textarea
   width:100%;
   padding:5px 0;
   font-size: 16px;
   margin: 10px 0;
   border-bottom: 2px solid #333;
   outline:none;
   resize: none;
.contactForm .inputBox span
   position: absolute;
   left:0;
   font-size: 16px;
   margin: 10px 0;
   pointer-events:none;
```

```
.contactForm .inputBox input:focus ~ span,
.contactForm .inputBox input:valid ~ span,
.contactForm .inputBox textarea:focus ~ span,
.contactForm .inputBox textarea:valid ~ span
   font-size: 12px;
    transform: translateY(-20px);
.contactForm .inputBox input[type = "submit"]
   width: 100px;
   color:#fff;
   padding:10px;
    font-size:18px;
@media (max-width: 991px)
    .contact
```

```
padding: 50px;
  flex-direction: column;
  margin-bottom: 40px;
.contactForm
```

profile.css

```
.master{
    display: grid;
    grid-template-columns: 1fr 1fr 4fr;
    height: 100%;
    margin: 0;
    padding: 0;
```

```
.posts-container{
   text-align: left;
   max-height: 100%;
   overflow-y: auto;
   margin-right: 30px;
.posts-container hr{
   width: 70%;
.profile-posts{
   margin: 5px;
   padding: 20px;
   border-radius: 10px;
   border: 2px #E2DEDE solid;
   margin-right: 20px;
   -webkit-box-shadow: inset 0px 0px 50px -10px #000000;
   box-shadow: inset Opx Opx 50px -10px #000000;
.user-data{
```

```
padding-left: 5px;
   font-weight: 500;
.post-button{
   margin: 10px;
.post-button button{
   border-radius: 10px;
   font-size: 20px;
   padding: 5px;
.active button{
.date{
   font-size: 13px;
a {
```

(c) Backend / Database Files:

Tables are created and stored in models.py file.

manage.py

```
"""Django's command-line utility for administrative tasks."""
import os
import sys
def main():
   os.environ.setdefault('DJANGO SETTINGS MODULE', 'facebook.settings')
   execute_from_command_line(sys.argv)
if name == ' main ':
```

```
main()
```

settings.py

```
Django settings for facebook project.
Generated by 'django-admin startproject' using Django 2.2.5.
For more information on this file, see
https://docs.djangoproject.com/en/2.2/topics/settings/
For the full list of settings and their values, see
https://docs.djangoproject.com/en/2.2/ref/settings/
import os
from os.path import join, dirname
from dotenv import load_dotenv
dotenv path = join(dirname( file ), '.env')
load dotenv(dotenv path)
```

```
BASE DIR = os.path.dirname(os.path.dirname(os.path.abspath( file )))
SECRET KEY = "asdfasdfasdfasdfs"
DEBUG = True
ALLOWED HOSTS = ["rohanjnr.pythonanywhere.com", "localhost", "127.0.0.1"]
INSTALLED APPS = [
    'django.contrib.staticfiles',
```

```
'facebook.apps.accounts',
MIDDLEWARE = [
TEMPLATES = [
```

```
'DIRS': [os.path.join(BASE_DIR, "facebook", "templates")],
'NAME': os.path.join(BASE DIR, 'db.sqlite3'),
```

```
AUTH PASSWORD VALIDATORS = [
```

```
LANGUAGE CODE = 'en-us'
TIME ZONE = 'UTC'
USE I18N = True
USE L10N = True
USE TZ = True
# Static files (CSS, JavaScript, Images)
STATIC_ROOT = 'static_dep'
STATIC URL = '/static/'
STATICFILES DIRS = [
   os.path.join(BASE DIR, "facebook", "static")
MEDIA_ROOT = os.path.join(BASE_DIR, "facebook", "media")
MEDIA URL = "/media/"
LOGIN URL = "login"
LOGIN_REDIRECT_URL = "profile"
```

POSTS:

forms.py

```
from django import forms
from .models import Post, Comment
from crispy_forms.helper import FormHelper
from crispy forms.layout import Layout, Field
class PostForm(forms.ModelForm):
   class Meta:
      model = Post
class CommentForm(forms.ModelForm):
   class Meta:
       model = Comment
   helper = FormHelper()
```

models.py

```
from django.db import models
from django.contrib.auth.models import User
from django.db.models import Count
from django.db.models.signals import post delete
from .signals import delete pic
from PIL import Image
class PostManager(models.Manager):
   def get posts(self, status):
self.get queryset().annotate(num comments=Count("comment")).filter(archive
d=status)
class Post(models.Model):
   title = models.CharField(max length=150)
   updated = models.DateTimeField(auto now add=False, auto now=True)
   img = models.ImageField(upload to="post imgs", blank=True, null=True)
```

```
description = models.TextField()
archived = models.BooleanField(default=False)
objects = PostManager()
def save(self):
   super().save()
   if self.img:
        img = Image.open(self.img.path)
            output size = (600, 600)
            img.thumbnail(output size)
            img.save(self.img.path)
```

```
user = models.ForeignKey(User, on_delete=models.CASCADE)

post = models.ForeignKey(Post, on_delete=models.CASCADE)

commented_time = models.DateTimeField(auto_now_add=True,
auto_now=False)

comment = models.CharField(max_length=250)

post_delete.connect(delete_pic, Post)
```

urls.py

```
from django.urls import path
from . import views
from django.contrib.auth import views as auth_views
urlpatterns = [
   path("add-post/", views.add post view, name="add-post"),
   path("posts/", views.display posts view, name="display-posts"),
   path("posts/<int:pk>", views.detail post view, name="detail-post"),
   path("posts/<int:pk>/add-comment", views.comments view,
name="add-comment"),
   path("posts/<int:pk>/add-like/<str:destination>", views.like view,
name="like"),
   path("posts/<int:pk>/delete-post", views.delete post view,
name="delete-post"),
   path("posts/<int:pk>/update-post", views.update_post_view,
name="update-post"),
```

```
path("posts/<int:pk>/archive", views.archive_post_view,
name="archive"),
    path("posts/<int:pk>/un-archive", views.unarchive_post_view,
name="un-archive")
]
```

views.py

```
from django.shortcuts import render, redirect
from django.contrib.auth.decorators import login required
from django.http import HttpResponseRedirect
from django.db.models import Q
from django.contrib import messages
from facebook.apps.accounts.models import Block
from .models import Post
from .forms import PostForm, CommentForm
@login_required
def add post view(request):
   if request.method == "POST":
        form = PostForm(request.POST, request.FILES)
           obj = form.save(commit=False)
```

```
obj.user = request.user
            obj.save()
            messages.success(request, "Post has been created.")
    form = PostForm()
    template name = "posts/add post.html"
        "form":form
    return render(request, template name, context)
@login required
def display posts view(request):
    blocked = Block.objects.filter(blocked by =
request.user).values list('blocked').distinct()
    blocked by = Block.objects.filter(blocked =
request.user).values list('blocked by').distinct()
    if (blocked.exists()) and (blocked by.exists()):
        allBlocked = blocked | blocked_by
   elif blocked.exists():
        allBlocked = blocked
   elif blocked by.exists():
        allBlocked = blocked by
    else:
```

```
allBlocked = []
   print(allBlocked)
   posts = Post.objects.get posts(False).exclude(user in = allBlocked)
   liked = []
   for post in posts:
       liked.append(check_like(request.user, post)[0])
       like no.append(check like(request.user, post)[1])
   master list = zip(posts, liked, like no)
       "master":master list
   template_name = "posts/display posts.html"
   return render(request, template name, context)
@login required
def detail post view(request, pk):
   post = Post.objects.get(pk=pk)
   comments = post.comment_set.all()
   template_name = "posts/detail_post.html"
```

```
liked, like_no = check_like(request.user, post)
        "post":post,
        "liked":liked,
    return render(request, template name, context)
@login required
def comments_view(request, pk):
   print("out")
   if request.method == "POST":
       print("here")
       form = CommentForm(request.POST)
            obj = form.save(commit=False)
            post = Post.objects.get(pk=pk)
           obj.post = post
            obj.user = request.user
            obj.save()
```

```
return redirect(f"/posts/{pk}")
   template name = "posts/add comment.html"
   context={
   "form":form
   return render(request, template_name, context)
def check_like(user, post):
   likes = post.likes
   if user in likes.all():
       return True, len(likes.all())
   return False, len(likes.all())
def like view(request, pk, destination):
   post = Post.objects.get(pk=pk)
   liked, like_no = check_like(request.user, post)
   if liked:
       post.likes.remove(request.user)
       post.likes.add(request.user)
   print(post.likes.all())
   post.save()
```

```
print(request.POST)
   next url = request.POST.get("next")
   return redirect(next url)
@login required
def delete_post_view(request, pk):
   obj = Post.objects.get(pk=pk)
   if request.method == "POST":
       obj.delete()
       messages.error(request, "Post has been deleted.")
   template_name = "posts/delete_post.html"
   return render(request, template_name, context)
@login_required
def update post view(request, pk):
   obj = Post.objects.get(pk=pk)
   if request.method == "POST":
       post = PostForm(request.POST, request.FILES, instance=obj)
       if post.is valid():
           post.save()
```

```
messages.success(request, "Post has been updated.")
    form = PostForm(instance=obj)
    template name = "posts/update-post.html"
    return render(request, template_name, context)
@login required
def archive_post_view(request, pk):
   obj = Post.objects.get(pk=pk)
   obj.archived = True
   obj.save()
   return redirect("profile")
@login_required
def unarchive post view(request, pk):
   obj = Post.objects.get(pk=pk)
   obj.archived = False
   obj.save()
```

3.2 Test Results

UNIT TESTING

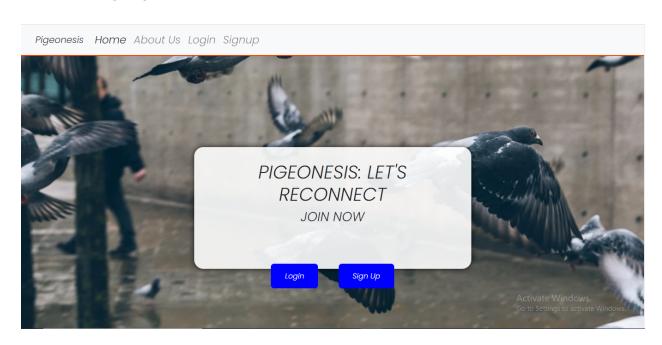
Test Case Id	Test Case Description	Status of Test Case
1	Welcome Page-Home page,Details of About Us, Login and Sign up options	Passed
2	Login with Valid Email Id and Valid Password	Passed
3	Login with Valid Email Id and Invalid Password	Passed
4	Login with Invalid Email Id and Valid Password	Passed
5	Login with Invalid Email Id and Invalid Password	Passed
6	Sign up with valid name, valid email ld and password which is not registered before	Passed
7	Sign up with Invalid name format ,Invalid email Id format and invalid password format	Passed
8	Sign up with Valid Name and Email ID format but passwords and confirm passwords do not match	Passed
9	Update profile with valid name and valid phone number and upload a profile pic	Passed
10	Update profile by giving a valid URL	Passed
11	Update profile with valid profile pic format (jpg and png format only)	Failed
12	Update profile with invalid profile pic format	Passed
13	Dashboard landing page. Should open only after	Passed

	successful login	
14	Searching allowed with a valid username only	Passed
15	Add post allowed with valid image and caption	Passed
16	Allow Edit post	Passed
17	Allow archive post	Passed
18	Allow unarchive option	Passed
19	Allow likes to other people's posts.	Passed
20	Allow the comment option	Passed
21	Contact us Page	Passed
22	Delete account facility	Passed
23	Local cache memory clearance check after deleting account.	Failed
24	Logout option.	Passed

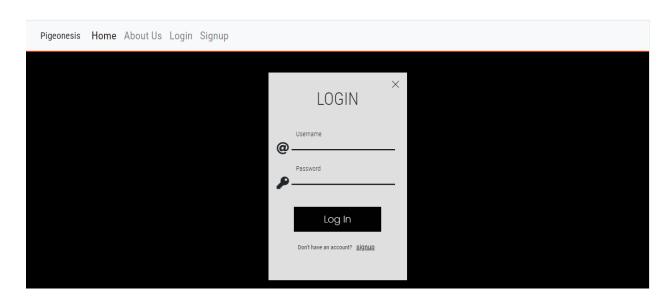
4. Results and Discussion

4.1 Output/Results

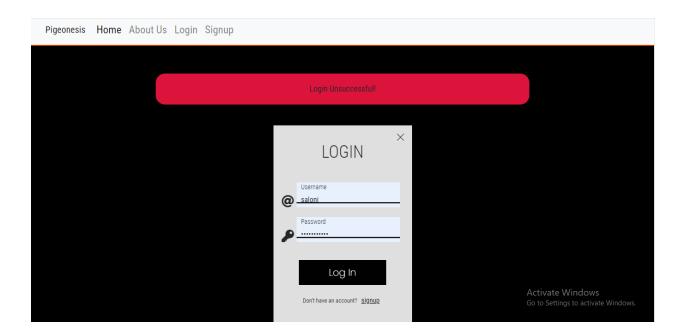
1. Landing Page



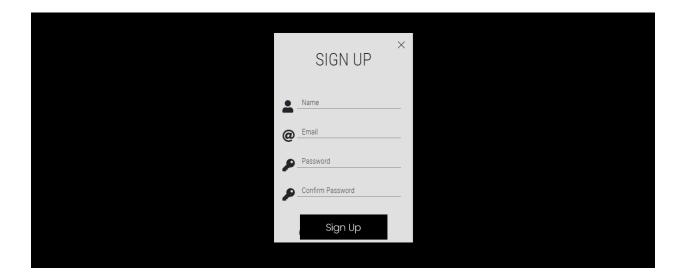
2. LOGIN PAGE



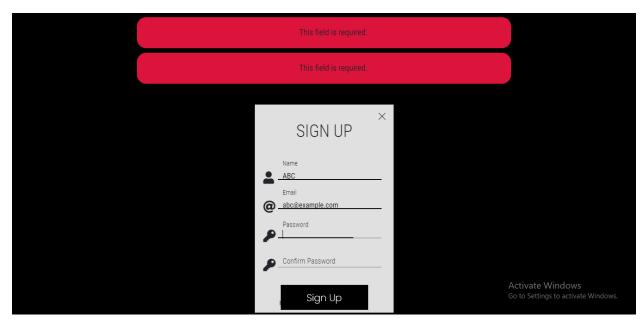
ITS VALIDATION



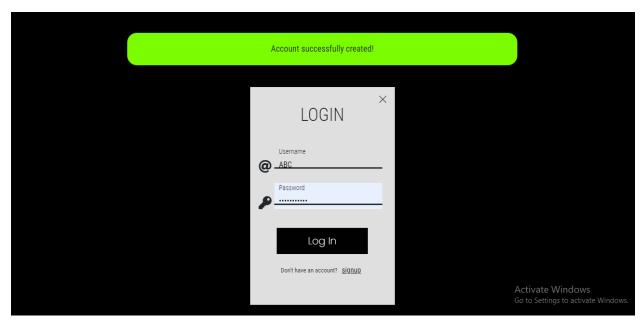
3. SIGN UP PAGE





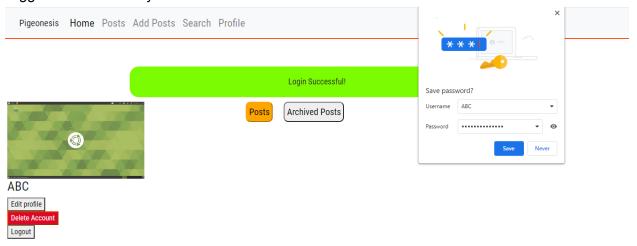






And with successful creation, it jumps back to the login page.

Logged In Successfully -



Pigeonesis: Lets reconnect Activate Windows

Social Media Website Go to Settings to activate Windows.

4. HOME PAGE



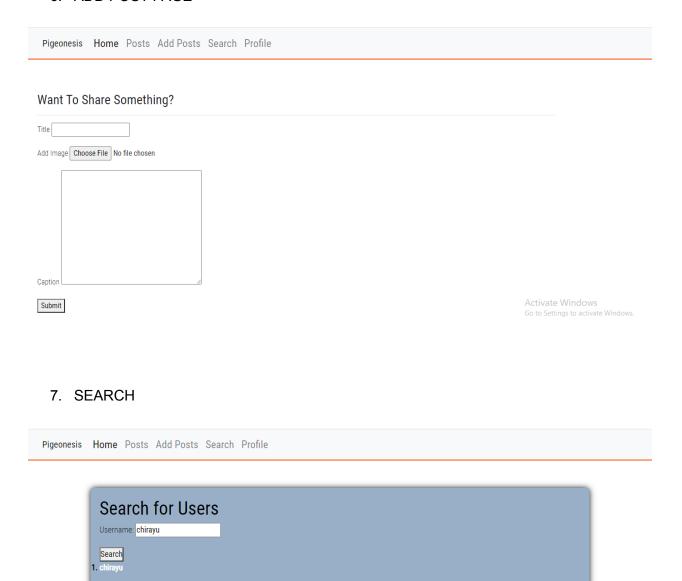


Pigeonesis : Lets reconnect

5. POSTS PAGE



6. ADD POST PAGE



ON CLICKING ON THE USER YOU CAN SEE THE POSTS MADE BY THEM -

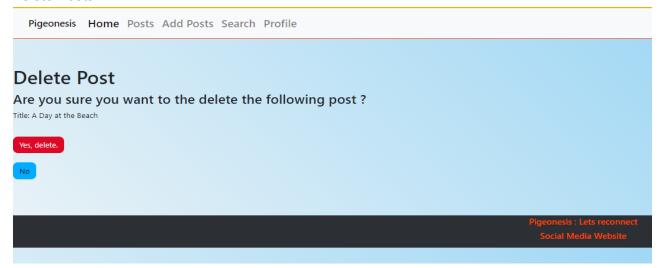




 Pigeonesis : Lets reconnect
 Activate Windows

 Social Media Website
 Go to Settings to activate Windows.

8. Delete Posts



9. EDIT PROFILE



10. DELETE ACCOUNT

Pigeonesis Home Posts Add Posts Search Profile

Delete Account

We are sorry to see you go.

Are you sure you want to delete your account?



Pigeonesis : Lets reconnect Social Media Website

11. LOG OUT

Pigeonesis Home About Us Login Signup

You have been logged out!

Social Media Website

12. ABOUT US

Contact us

We Are Always here to solve your queries. Incase you have any doubts let us know your query. We are also open to feedback and suggestions. Do leave us a message

≛≡

Address

Silver Jubilee Tower,VIT University Vellore,India, 632014

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Email

deshpandearnav.sunil2019@vitstudent.ac.in

saloni.parekh2019@vitstudent.ac.in

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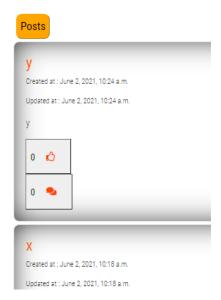
Mobile Number

986-355-0012

13. Block User

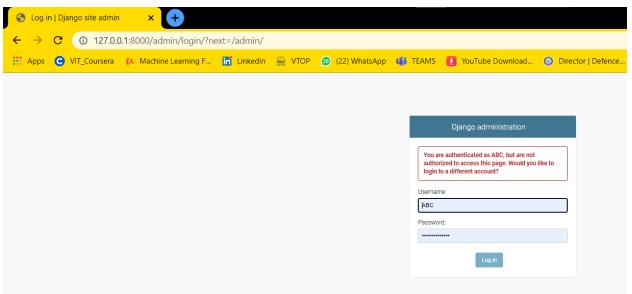
Pigeonesis Home Posts Add Posts Search Profile



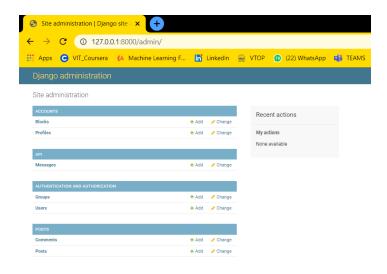


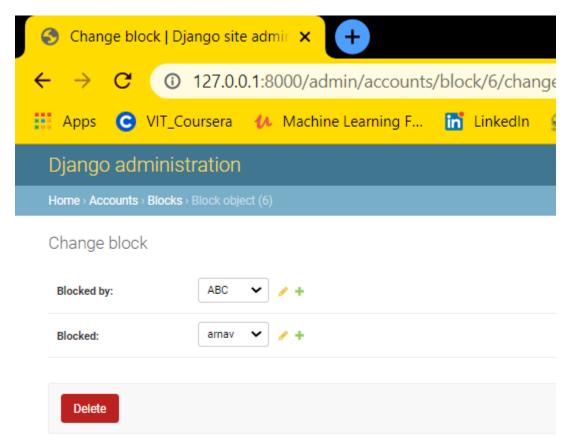
If User is Blocked, You cannot view his Posts anymore. Only an Admin can Unblock him for you.

14. ADMIN INTERFACE



Normal Users, don't have admin access to the site.





Blocked Users can be changed. Posts can be taken down. Users can be added / deleted. Comments can be deleted.

4.2 Discussion

The results indicate the various specifications which we have incorporated in our social media website. We have a landing page which provides the users with the choices whether they wish to Login or Sign up based on the fact whether they do have an account or not. Based on what they have selected they are directed to the particular page where they need to enter their details correctly in order to prevent an error message. Then we have a home page. A profile page has also been created where the user is given multiple options like edit profile, add post, view post etc. On clicking the Edit profile, the user can modify the details of his/her profile with a new profile picture and URL. On clicking the Add post the person can add any post that he/she wishes to. The post can either be just a text or text along with picture or just a picture. Once the user adds the post it gets saved to his/her profile under the posts section. The user can also choose to archive some of the post that it doesn't wish to keep it open to everyone and can later unarchive it also from the unarchive column. The user can also edit the post at any time through the Edit Post option. The user can also have a look at other peoples posts and can like and comment the posts with a maximum of 1 like allowed for each post made. The user is also given the privilege to search for any person who is there on the same social media platform. The person is requested to search with the correct name. Also if they feel that someone is posting violating or inappropriate posts then they can click on the block button and if more than 3 people block the same person then that person's account will be permanently deleted from the website. By doing this we have tried to provide a safe and secure environment. Also we have implemented an admin interface which adds more charm to this project and brings in a new dimension. Also the option for logout is there on the Home screen. The user is also given the freedom to delete his/her account at any point of time through the delete account option.

5. Conclusion

Through this report we have discussed our project which was based on a clone of a social media website which we choose to name as Pigeonesis. Through pigeonesis we have shown how people can stay connected with other peoples life and also allowing others to be a part of their life. Various interesting features have been added along with a very important feature which is the blocking feature. Through this website we have tried to help as many people as possible in such difficult times where all people fear is loneliness and isolation.

In this project we tried to implement the things we got to learn during the Internet Web Programming class. We got a chance to put the learned knowledge into practice and gain a lot of practical knowledge. Also we explored a new language, Django. Overall, this project was a great additional learning bonus for us as developers, topped with the able feedback of our Course Instructor, Prof. Dr. Senthilkumar, hope it adds value to your life as well.

6. References

HTML Tutorial. [Online]. Available: https://www.w3schools.com/html/.

SQLite Documentation. [Online]. Available: https://www.sqlite.org/docs.html.

CSS Tutorial. [Online]. Available: https://www.w3schools.com/css/.

"Documentation," Django. [Online]. Available: https://docs.djangoproject.com/en/3.2/.

J. Juneau, J. Baker, V. Ng, L. Soto, and F. Wierzbicki, "Web Applications With Django," *The Definitive Guide To Jython*, pp. 281–325, 2010.

Manjurulhoque, "manjurulhoque/django-social-network," *GitHub*. [Online]. Available:

https://github.com/manjurulhoque/django-social-network.

Wagtail, "wagtail/wagtail," GitHub. [Online]. Available: https://github.com/wagtail/wagtail.

Whatwg, "whatwg/html," GitHub. [Online]. Available: https://github.com/whatwg/html.

pranavg000, "pranavg000/Social-Network-Django," GitHub. [Online]. Available:

https://github.com/pranavg000/Social-Network-Django.