App.py:  
  
from flask import Flask, render\_template, request, redirect, url\_for, session, flash

from flask\_session import Session

from werkzeug.security import generate\_password\_hash, check\_password\_hash

import json

import re

import time

import os

app = Flask(\_\_name\_\_)

app.config['SESSION\_TYPE'] = 'filesystem'

app.config['SECRET\_KEY'] = 'your\_secret\_key'

Session(app)

DATA\_FILE = 'data.json'

def load\_data():

if os.path.exists(DATA\_FILE):

with open(DATA\_FILE, 'r') as f:

return json.load(f)

return {'users': [], 'email\_timers': {}}

def save\_data(data):

with open(DATA\_FILE, 'w') as f:

json.dump(data, f)

data = load\_data()

users = data['users']

email\_timers = data['email\_timers']

def email\_exists(email\_timers, email):

return any(timer['email'] == email for timer in email\_timers)

def get\_user\_by\_email(email):

for user in users:

if user['email'] == email:

return user

return None

@app.route('/signup', methods=['GET', 'POST'])

def signup():

if request.method == 'POST':

email = request.form['email']

password = request.form['password']

if get\_user\_by\_email(email) is not None:

flash('Email already exists..Please log in or use another email..', 'error')

return redirect(url\_for('signup'))

hashed\_password = generate\_password\_hash(password)

new\_user = {'email': email, 'password': hashed\_password}

users.append(new\_user)

data['users'] = users

save\_data(data)

flash('Account created successfully..Please log in..', 'success')

return redirect(url\_for('login'))

return render\_template('signup.html')

@app.route('/login', methods=['GET', 'POST'])

def login():

if request.method == 'POST':

email = request.form['email']

password = request.form['password']

user = get\_user\_by\_email(email)

if user is None or not check\_password\_hash(user['password'], password):

flash('Invalid email or password..Please try again..', 'error')

return redirect(url\_for('login'))

session['user\_email'] = email

flash('Logged in successfully..', 'success')

return redirect(url\_for('index'))

return render\_template('login.html')

@app.route('/logout')

def logout():

session.pop('user\_email', None)

flash('Logged out successfully..', 'success')

return redirect(url\_for('login'))

@app.route('/', methods=['GET', 'POST'])

def index():

if 'user\_email' not in session:

return redirect(url\_for('login'))

user\_email = session['user\_email']

user\_email\_timers = email\_timers.get(user\_email, [])

if request.method == 'POST':

email\_input = request.form['email']

emails = re.split(r'[,; \s]\s\*', email\_input.strip())

for email in emails:

if not email\_exists(user\_email\_timers, email):

user\_email\_timers.append({'email': email, 'status': 'Ready', 'end\_time': 0})

email\_timers[user\_email] = user\_email\_timers

data['email\_timers'] = email\_timers

save\_data(data)

return render\_template('index.html', email\_timers=user\_email\_timers)

@app.route('/start\_timer/<int:email\_timer\_index>')

def start\_timer(email\_timer\_index):

if 'user\_email' not in session:

return redirect(url\_for('login'))

user\_email = session['user\_email']

user\_email\_timers = email\_timers[user\_email]

email\_timer = user\_email\_timers[email\_timer\_index]

email\_timer['status'] = 'InUse'

email\_timer['end\_time'] = int(time.time()) + 11700

email\_timers[user\_email] = user\_email\_timers

data['email\_timers'] = email\_timers

save\_data(data)

return redirect(url\_for('index'))

@app.route('/delete\_timer/<int:email\_timer\_index>')

def delete\_timer(email\_timer\_index):

if 'user\_email' not in session:

return redirect(url\_for('login'))

user\_email = session['user\_email']

user\_email\_timers = email\_timers[user\_email]

del user\_email\_timers[email\_timer\_index]

email\_timers[user\_email] = user\_email\_timers

data['email\_timers'] = email\_timers

save\_data(data)

return redirect(url\_for('index'))

if \_\_name\_\_ == '\_\_main\_\_':

app.run(debug=True)

# index.html:

<!DOCTYPE html>

<html>

<head>

<title>Email Timer</title>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>

<script>

function formatTime(seconds) {

let hours = Math.floor(seconds / 3600);

let minutes = Math.floor((seconds % 3600) / 60);

let remainingSeconds = seconds % 60;

return `${hours.toString().padStart(2, '0')}:${minutes.toString().padStart(2, '0')}:${remainingSeconds.toString().padStart(2, '0')}`;

}

function updateTimers() {

$('.timer').each(function() {

let endTime = parseInt($(this).data('end-time'));

let currentTime = Math.floor(Date.now() / 1000);

let timeLeft = endTime - currentTime;

if (timeLeft > 0) {

$(this).text(formatTime(timeLeft));

} else {

$(this).text('00:00:00');

$(this).siblings('.status').text('Ready');

$(this).siblings('.actions').find('.start-timer').show();

}

});

}

$(document).ready(function() {

setInterval(updateTimers, 1000);

});

</script>

</head>

<body>

<div class="container">

{% with messages = get\_flashed\_messages(with\_categories=true) %}

{% if messages %}

{% for category, message in messages %}

<div class="alert alert-{{ category }}">{{ message }}</div>

{% endfor %}

{% endif %}

{% endwith %}

<a href="{{ url\_for('logout') }}" class="btn btn-secondary">Logout</a>

<form method="POST" action="{{ url\_for('index') }}">

<div class="form-group">

<label for="email">Enter email addresses (separated by commas, semicolons, or spaces):</label>

<textarea class="form-control" name="email" rows="3" required></textarea>

</div>

<button type="submit" class="btn btn-primary">Add Email</button>

</form>

<table class="table">

<thead>

<tr>

<th>Email</th>

<th>Status</th>

<th>Time Left</th>

<th>Actions</th>

</tr>

</thead>

<tbody>

{% for email\_timer in email\_timers %}

<tr>

<td>{{ email\_timer.email }}</td>

<td class="status">{{ email\_timer.status }}</td>

<td class="timer" data-end-time="{{ email\_timer.end\_time }}"></td>

<td class="actions">

{% if email\_timer.status == 'Ready' %}

<a href="{{ url\_for('start\_timer', email\_timer\_index=loop.index0) }}" class="btn btn-primary start-timer">Start Timer</a>

{% else %}

<a href="{{ url\_for('start\_timer', email\_timer\_index=loop.index0) }}" class="btn btn-primary start-timer" style="display:none;">Start Timer</a>

{% endif %}

<a href="{{ url\_for('delete\_timer', email\_timer\_index=loop.index0) }}" class="btn btn-danger">Delete</a>

</td>

</tr>

{% endfor %}

</tbody>

</table>

</div>

</body>

</html>

# signup.html:

<!DOCTYPE html>

<html>

<head>

<title>Sign Up</title>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">

</head>

<body>

<div class="container">

{% with messages = get\_flashed\_messages(with\_categories=true) %}

{% if messages %}

{% for category, message in messages %}

<div class="alert alert-{{ category }}">{{ message }}</div>

{% endfor %}

{% endif %}

{% endwith %}

<h1>Sign Up</h1>

<form method="POST" action="{{ url\_for('signup') }}">

<div class="form-group">

<label for="email">Email:</label>

<input type="email" class="form-control" name="email" required>

</div>

<div class="form-group">

<label for="password">Password:</label>

<input type="password" class="form-control" name="password" required>

</div>

<button type="submit" class="btn btn-primary">Sign Up</button>

</form>

<p>Already have an account? <a href="{{ url\_for('login') }}">Login</a></p>

</div>

</body>

</html>

# login.html:

<!DOCTYPE html>

<html>

<head>

<title>Login</title>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">

</head>

<body>

<div class="container">

{% with messages = get\_flashed\_messages(with\_categories=true) %}

{% if messages %}

{% for category, message in messages %}

<div class="alert alert-{{ category }}">{{ message }}</div>

{% endfor %}

{% endif %}

{% endwith %}

<h1>Login</h1>

<form method="POST" action="{{ url\_for('login') }}">

<div class="form-group">

<label for="email">Email:</label>

<input type="email" class="form-control" name="email" required>

</div>

<div class="form-group">

<label for="password">Password:</label>

<input type="password" class="form-control" name="password" required>

</div>

<button type="submit" class="btn btn-primary">Login</button>

</form>

<p>Don't have an account? <a href="{{ url\_for('signup') }}">Sign up</a></p>

</div>

</body>

</html>