

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')}`;

    }

    $(document).ready(function() {

      setInterval(function() {

        $('<div>.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));

          }

        });

      }, 1000);

    });

  </script>

</head>

</html>
```

```

        } else {

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

        }

    });

    }, 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>{{ email_timer.status }}</td>

    <td class="timer" data-end-time="{{ email_timer.end_time }}"></td>

    <td>

      {% if email_timer.status == 'Ready' %}

      <a href="{{ url_for('start_timer', email_timer_index=loop.index0) }}" class="btn btn-
success">Start</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>
```

```
  <style>
```

```
    body {
```

```
      font-family: Arial, sans-serif;
```

```
      margin: 0;
```

```
      padding: 0;
```

```
    }
```

```
    .container {
```

```
      max-width: 800px;
```

```
      margin: 0 auto;
```

```
      padding: 20px;
```

```
    }
```

```
    .message {
```

```
      padding: 10px;
```

```
      margin-bottom: 20px;
```

```
      border: 1px solid;
```

```
      border-radius: 3px;
```

```
    }
```

```
    .success {
```

```
      background-color: #d4edda;
```

```
      border-color: #c3e6cb;
```

```
      color: #155724;
```

```
    }
```

```
.error {  
    background-color: #f8d7da;  
    border-color: #f5c6cb;  
    color: #721c24;  
}
```

```
form {  
    margin-bottom: 20px;  
}
```

```
label {  
    display: block;  
    margin-bottom: 5px;  
}
```

```
input[type="email"], input[type="password"] {  
    width: 100%;  
    padding: 10px;  
    margin-bottom: 10px;  
    box-sizing: border-box;  
}
```

```
button {  
    background-color: #007bff;  
    color: #fff;  
    padding: 10px 20px;  
    border: none;  
    cursor: pointer;  
}
```

```

button:hover {
    background-color: #0056b3;
}

a {
    text-decoration: none;
    color: #007bff;
}

a:hover {
    text-decoration: underline;
}
</style>
</head>
<body>
<div class="container">
    {% with messages = get_flashed_messages(with_categories=true) %}
    {% if messages %}
    {% for category, message in messages %}
    <div class="message {{ category }}">{{ message }}</div>
    {% endfor %}
    {% endif %}
    {% endwith %}
    <form method="POST" action="{{ url_for('signup') }}">
        <label for="email">Email:</label>
        <input type="email" name="email" required>
        <label for="password">Password:</label>
        <input type="password" name="password" required>
        <button type="submit">Sign Up</button>
    </form>
    <p>Already have an account? <a href="{{ url_for('login') }}">Log in</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? Sign up</p>

</div>

</body>

</html>