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import random

import string

import secrets

from flask import Flask, render_template, request


app = Flask(__name__)


@app.route('/')
def index():
    return render_template('index.html')


@app.route('/generate', methods=['POST'])
def generate():
    try:
        length = int(request.form['length'])
        uppercase = bool(request.form['uppercase'])
        lowercase = bool(request.form['lowercase'])
        numbers = bool(request.form['numbers'])
        symbols = bool(request.form['symbols'])

        if length < 1:
            return render_template('index.html', error="Password length must be at least 1 character.")

        password = generate_password(length, uppercase, lowercase, numbers, symbols)
        return render_template('index.html', password=password)
    except ValueError:
        return render_template('index.html', error="Invalid input. Please enter a valid password length.")


def generate_password(length, uppercase, lowercase, numbers, symbols):
    characters = []

```

if uppercase:

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    characters.extend(secrets.choice(string.ascii_uppercase) for _ in range(length // 4))
```

if lowercase:

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    characters.extend(secrets.choice(string.ascii_lowercase) for _ in range(length // 4))
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if numbers:

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    characters.extend(secrets.choice(string.digits) for _ in range(length // 4))
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if symbols:

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    characters.extend(secrets.choice(string.punctuation) for _ in range(length // 4))
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while len(characters) < length:

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    characters.append(secrets.choice(string.ascii_letters + string.digits + string.punctuation))
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random.shuffle(characters)
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return ''.join(characters)
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if __name__ == '__main__':
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    app.run()
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