

## Web Application CS162

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Python and HTML code:

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app.py:

```
from flask import Flask, render_template, request, redirect, url_for
from flask_sqlalchemy import SQLAlchemy

app = Flask(__name__)

app.config['SQLALCHEMY_DATABASE_URI'] = 'sqlite:///todo.db'

db = SQLAlchemy(app)

class Todo(db.Model):
    id = db.Column(db.Integer, primary_key=True)
    text = db.Column(db.String(200))
    status = db.Column(db.String(100))

class Users(db.Model):
    usernames = db.Column(db.String(100), primary_key=True)
    passwords = db.Column(db.String(100))

@app.route('/')
def login():
    users = Users.query.all()
    #password = Users.query.all()
    return render_template('loginpage.html')

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

@app.route('/add_user', methods=['POST'])
def add_user():
    user = Users(usernames=request.form['userinput'], passwords=request.form['passwordinput'])
    db.session.add(user)
    db.session.commit()

    return redirect(url_for('login'))
```

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@app.route('/auth_user', methods=['POST'])
def auth_user():
    login_user = request.form['userinput']
    login_password = request.form['passwordinput']
    userpassword=db.session.query(Users).filter(Users.usernames==login_user,
Users.passwords==login_password).all()
    print db.session.query(Users).all()
    print '00',userpassword
    # print len(userpassword)
    if len(userpassword)>0:
        print "User CLEAR"
        return redirect(url_for('index'))
    else:
        print "Not User"
        return render_template('reloginpage.html')

@app.route('/index')
def index():
    incomplete = Todo.query.filter_by(status='incomplete').all()
    complete = Todo.query.filter_by(status='complete').all()
    completing = Todo.query.filter_by(status='completing').all()

    return render_template('index.html', incomplete=incomplete, complete=complete, completing
= completing)

@app.route('/add', methods=['POST'])
def add():
    todo = Todo(text=request.form['todoitem'], status='incomplete')
    db.session.add(todo)
    db.session.commit()

    return redirect(url_for('index'))

@app.route('/complete/<id>')
def complete(id):
    todo = Todo.query.filter_by(id=int(id)).first()
    todo.status = 'complete'
    db.session.commit()

    return redirect(url_for('index'))

@app.route('/completing/<id>')
def completing(id):
    todo = Todo.query.filter_by(id=int(id)).first()
    todo.status = 'completing'
    db.session.commit()

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        return redirect(url_for('index'))

@app.route('/delete/<id>', methods=['POST'])
def delete_entry(id):
    #if not db.session.get('logged_in'):
        #abort(401)
    #db = get_db()
    db.session.query(Todo).filter(Todo.id == id).delete()
    #db.session.delete(request.form[todo.id])
    db.session.commit()
    return redirect(url_for('index'))

if __name__ == '__main__':
    app.run(debug=True)

```

index.html:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Todo App</title>
</head>
<body>
    <h1>Yoel's KanBan Board</h1>
    <div>Logout
        <form action="{{ url_for('logout') }}">
            <input type="hidden" name="todoitem">
            <input type="submit" value="Log Out">
        </form>
    </div>
    <div>Add a new todo item:
        <form action="{{ url_for('add') }}" method="POST">
            <input type="text" name="todoitem">
            <input type="submit" value="Add Item">
        </form>
    </div>
    <div>
        <h2>Incomplete Items</h2>
        <ul>
            {% for todo in incomplete %}
            <li style="font-size: 12pt">{{ todo.text }}
                <p><a href="{{ url_for('complete', id=todo.id) }}">Mark As Completed </a></p>
                <p><a href="{{ url_for('completing', id=todo.id) }}">Mark As Currently Working
On</a></p>
            </li>
            {% endfor %}
        </ul>
    </div>

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    <h2>Currently Working On</h2>
    <ul>
      {% for todo in completing %}
      <li style="font-size: 12pt">{{ todo.text }} </li>
        <form action="{{ url_for('delete_entry', id=todo.id) }}" method="POST">
          <input type="hidden" name="_method" value="DELETE" />
          <input type="submit" value="Delete entry" />
        </form>
        <p><a href="{{ url_for('complete', id=todo.id) }}">Mark As Completed </a></p>
      {% endfor %}
    </ul>
    <h2>Completed Items</h2>
    <ul>
      {% for todo in complete %}
      <li style="font-size: 13">{{ todo.text }}</li>
        <form action="{{ url_for('delete_entry', id=todo.id) }}" method="POST">
          <input type="hidden" name="_method" value="DELETE" />
          <input type="submit" value="Delete entry" />
        </form>
      {% endfor %}
    </ul>
  </div>
</body>
</html>

```

loginpage.html:

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Todo App</title>
</head>
<body>
  <h1>Yoel's KanBan Board</h1>
  <div>Register a new user:
    <form action="{{ url_for('add_user') }}" method="POST">
      <input type="text" name="userinput">
      <input type="text" name="passwordinput">
      <input type="submit" value="Add user">
    </form>
  </div>
  <div>Login as existing user:
    <form action="{{ url_for('auth_user') }}" method="POST">
      <input type="text" name="userinput">
      <input type="text" name="passwordinput">
      <input type="submit" value="Login user">
    </form>
  </div>
</body>

```

```
</html>
```

reloginpage.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Todo App</title>
</head>
<body>
  <h1>Yoel's KanBan Board</h1>
  <div>Register a new user:
    <form action="{% url_for('add_user') %}" method="POST">
      <input type="text" name="userinput">
      <input type="text" name="passwordinput">
      <input type="submit" value="Add user">
    </form>
  </div>
  <div> Wrong password! Try to Login as existing user again:
    <form action="{% url_for('auth_user') %}" method="POST">
      <input type="text" name="userinput">
      <input type="text" name="passwordinput">
      <input type="submit" value="Login user">
    </form>
  </div>
</body>
</html>
```