

LU06.L06 - Todo-Liste mit Blueprints

main.py

Alle Routes wurde ausgelagert.

main.py

```
"""Todo-Liste mit Blueprints.

Aufgabenstellung:
https://wiki.bzz.ch/modul/m323/learningunits/lu06/aufgaben/blueprints
"""

from flask import Flask
from flask_login import LoginManager

from todo_blueprint import todo_blueprint
from user_blueprint import user_blueprint
from user_dao import UserDao
from todo_item import TodoItem
from user import User
from todo_dao import TodoDao

app = Flask(__name__)
app.secret_key = 'supersecretkey'

login_manager = LoginManager()
login_manager.init_app(app)

@login_manager.user_loader
def load_user(user_id):
    user_dao = UserDao('todo_example.db')
    return user_dao.get_user_by_id(int(user_id))

app.register_blueprint(todo_blueprint)
app.register_blueprint(user_blueprint)

def generate_testdata():
    todo_dao = TodoDao('todo_example.db')
    user_dao = UserDao('todo_example.db')

    # Generate user
    user_dao.create_user_table()
```

```
user_dao.add_user(User(1, 'admin', 'admin@example', 'admin'))

# Generate todo items
todo_dao.create_table()
todo_dao.add_item(TodoItem(1, 'Buy milk', False))
todo_dao.add_item(TodoItem(2, 'Buy eggs', False))
todo_dao.add_item(TodoItem(3, 'Buy bread', False))
todo_dao.add_item(TodoItem(4, 'Buy butter', False))

todo_dao.close()
user_dao.close()

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

todoBlueprint.py

[todo_blueprint.py](#)

```
"""Routen für die ToDo-Einträge."""

from flask_login import login_required
from flask import Blueprint, jsonify, request
from todo_dao import TodoDao
from todo_item import TodoItem

todo_blueprint = Blueprint('todo_blueprint', __name__)
todo_dao = TodoDao('todo_example.db')

@todo_blueprint.route('/todos', methods=['GET'])
def get_all_todos():
    items = todo_dao.get_all_items()
    return jsonify([item.__dict__ for item in items]), 200

@todo_blueprint.route('/todos/<int:item_id>', methods=['GET'])
def get_todo(item_id):
    item = todo_dao.get_item(item_id)
    if item:
        return jsonify(item.__dict__), 200
    else:
        return jsonify({'message': 'Item not found'}), 404
```

```
@todo_blueprint.route('/todos', methods=['POST'])
@login_required
def add_todo():
    data = request.get_json()
    new_item = TodoItem(None, data['title'], data['is_completed'])
    todo_dao.add_item(new_item)
    return jsonify({'message': 'Todo item created'}), 201

@todo_blueprint.route('/todos/<int:item_id>', methods=['PUT'])
@login_required
def update_todo(item_id):
    data = request.get_json()
    updated_item = TodoItem(item_id, data['title'],
data['is_completed'])
    if todo_dao.update_item(updated_item):
        return jsonify({'message': 'Item updated'}), 200
    else:
        return jsonify({'message': 'Item not found or not updated'}),
404

@todo_blueprint.route('/todos/<int:item_id>', methods=['DELETE'])
@login_required
def delete_todo(item_id):
    if todo_dao.delete_item(item_id):
        return jsonify({'message': 'Item deleted'}), 200
    else:
        return jsonify({'message': 'Item not found or not deleted'}),
404
```

userBlueprint.py

user_blueprint.py

```
"""Routen für Registrierung und Anmeldung."""

from flask import Blueprint, request, jsonify
from flask_login import login_required, login_user, logout_user
from user_dao import UserDao

user_blueprint = Blueprint('user_blueprint', __name__)
user_dao = UserDao('todo_example.db')

@user_blueprint.route('/login', methods=['POST'])
def login():
```

```
data = request.get_json()
user = user_dao.get_user_by_username(data['username'])
if user and user.password == data['password']:
    login_user(user)
    return jsonify({'success': True}), 200
return jsonify({'error': 'Invalid username or password'}), 401

@user_blueprint.route('/logout')
@login_required
def logout():
    logout_user()
    return jsonify({'success': True}), 200
```

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Permanent link:
<https://wiki.bzz.ch/modul/m323/learningunits/lu06/loesungen/blueprints?rev=1786954708>

Last update: **2026/08/17 10:18**

