

LU06.L05 - Authentifizierung für die ToDo-Liste API mit Flask-Login

main.py

```
from flask import Flask, jsonify, request
from todoItem import TodoItem
from todoDao import TodoDao

app = Flask(__name__)
todo_dao = TodoDao('todo_example.db')

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

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

@app.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

@app.route('/todos/<int:item_id>', methods=['PUT'])
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
```

```
@app.route('/todos/<int:item_id>', methods=['DELETE'])
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

def generate_testdata():
    # Generate user
    # TODO: Implement user generation

    # 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))

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

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