

# Soviet\_Architecture\_DataBase

## SADB

web project made as structured storage of data about soviet type architecture all across the world There will be information about soviet housebuilding series and their specific types

**By: Plachotnick\_Yaroslav  
Torlakiyan Kirill**

## MANY\_LIBRARY

A large number of libraries were used for the project (Required installation)

### LIST\_OF\_LIBRARIES

- SERVER PART (FLASK's modules) - Flask, flask-wtf, flask-login, flask-restful
- HTML, CSS
- System – OS, HashLib
- DataBase – SQLAlchemy

COMPLEX OF DATABASES  
AND USER'S VIEW OF IT

Tables (9)

- cities
- house\_types
- houses
- mats
- periods
- regions
- series
- type\_tables
- users

HISTORICAL\_ACCURACY

The aim of the project is to collect, store and organize historically accurate information about the architecture of the Soviet Union.

Filter by: 

- Period [dropdown]
- Material [dropdown]
- Climatic region [dropdown]

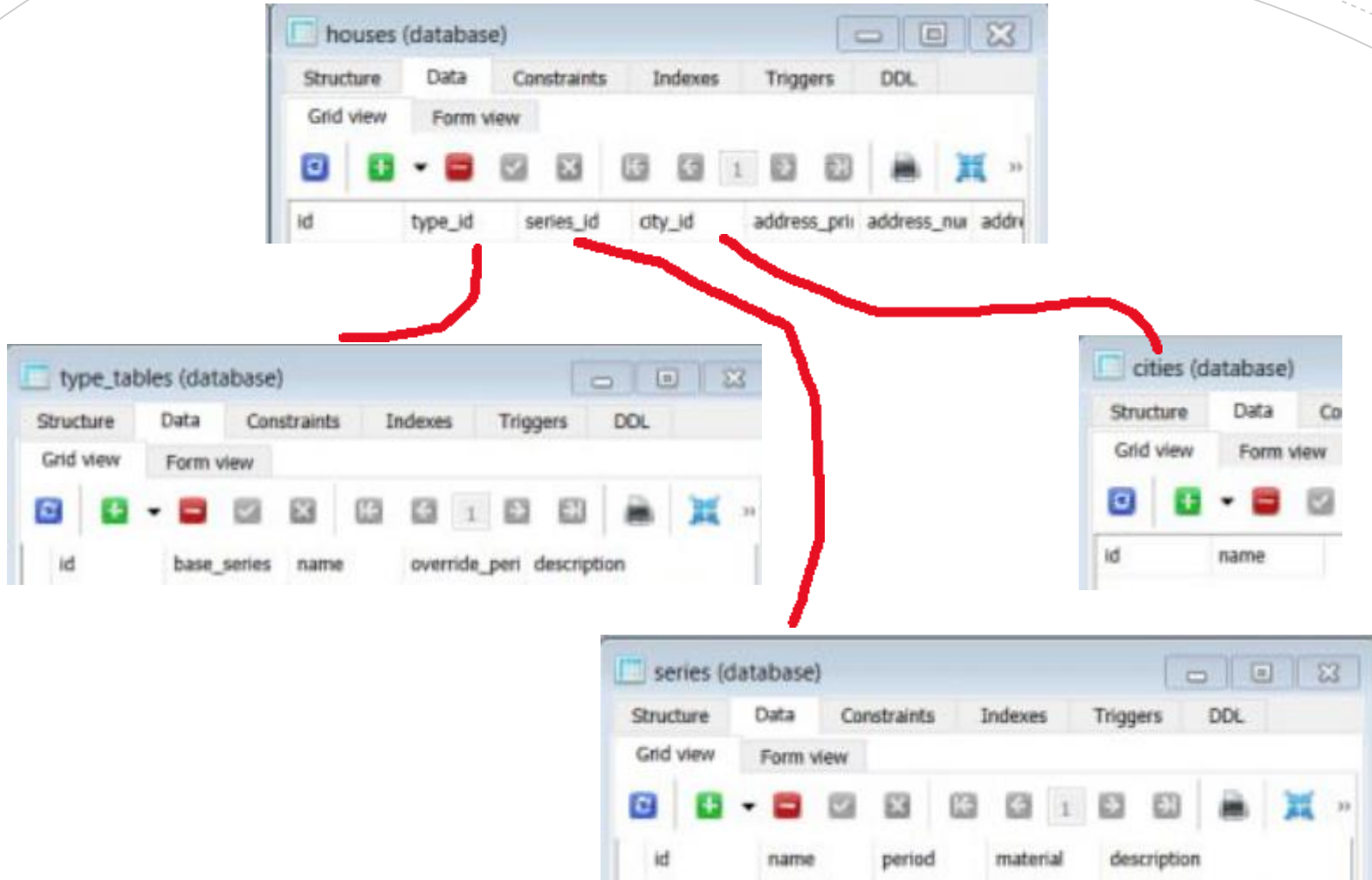
 Sort by: 

- Date

Series	Period	Material	Description	Images	Types
1-335AS	HRUSCH	Panel	Panelka seismic advanced i guess		16S

## DATA\_SYSTEM

A variety of interconnected databases were used to simplify and streamline data storage.



# MAIN\_PAGE

## User-friendly\_and\_stylized

The interface was created similar to the style of the Soviet Union, while remaining user-friendly.



## SADB -- SOVIET ARCHITECTURE DATABASE



```
@app.route('/series/<int:sid>', methods=['POST', 'GET'])
def series_specific(sid):
    db_sess = db.create_session()
    s = db_sess.get(Series, sid)
    serie = {
        'id': s.id,
        'name': s.name,
        'period': db_sess.get(Period, s.period).name,
        'material': db_sess.get(Material, s.material).name,
        'description': s.description
    }
    try:
        files = list(map(lambda x: x.split('.')[0], listdir(f'static/img/series/{sid}/')))
        print(files)
    except FileNotFoundError:
        files = None
    if request.method == 'POST':
        try:
            p = f'static/img/series/{sid}/{len(listdir(f'static/img/series/{sid}'))}'
        except FileNotFoundError:
            p = f'static/img/series/{sid}/0'
    resp = img_validator(request.files['img'], 5, p)
```

```
class UserLoginRes(rest.Resource):
    """Single object User Resources callable using username, includes:
    **GET** <username>"""
    def get(self, un): 3 usages (3 dynamic)
        db_sess = db.create_session()
        usr = db_sess.query(Users).filter(Users.login == str(un)).first()
        if not usr:
            abort(404, message=f"User [by username] {un} not found")
        return jsonify({'user': usr.to_dict()})
```

```
class UserRes(rest.Resource):
    """Single object User Resources, includes:
    **GET** <uid>\n
    **PUT** <uid>\n
    **DELETE** <uid>"""
    def get(self, uid): 3 usages (3 dynamic)
        abort_if_missing(uid)
        db_sess = db.create_session()
        usr = db_sess.query(Users).get(uid)
        return jsonify({'user': usr.to_dict()})
```