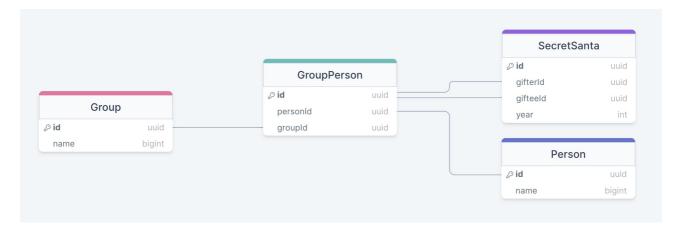
### **Secret Santa**

We want to create a server for an app that lets you randomize secret santa games.

For it we designed the next database diagram:



# **Endpoints**

We defined an interface for the endpoints we will have in the server:

- POST /api/group to create a group
  - the body will be:

```
{
  "name": <name_of_group>
}
```

- POST /api/person to create a person
  - the body will be:

```
{
    "name": <name_of_group>
}
```

- POST /api/group/add/:person\_id to add a person to a group
- POST /api/secret\_santa/:group\_id to generate a random secret santa
  - the return body will be:

```
{
    "user_a": "user_b",
    "user_b": "user_c",
    ...
}
```

- GET /api/secret\_santa/:group\_id to get history of secret santas for previous years
  - the return body will be:

```
{
    "2018": {
        "user_a": "user_b",
        "user_b": "user_c",
        ...
},
    "2019": {
        ...
},
    ...
}
```

# **Secret Santa Algorithm**

#### Version 1

Make a random secret santa for the group such that no one is their own Secret Santa

#### **Version 2**

Make a random secret santa such that:

- No one is their own secret santa
- You can have the same secret santa once every three years

### **Version 3**

Add a new field named tag to the person entity that can be used to store a string tag for that person. If the secret santa is for a workplace it can be used to store the job area, or if it's for a family, it can be used to store the family surname. That way we can add some extra rules.

Make a random secret santa such that:

- No one is their own secret santa
- You can have the same secret santa once every three years
- Whenever possible try to match people that don't share the same tag value.