



**SIRIUS
SOFTWARE**

Back-end Challenge

Secret Santa back-end service

V1.0

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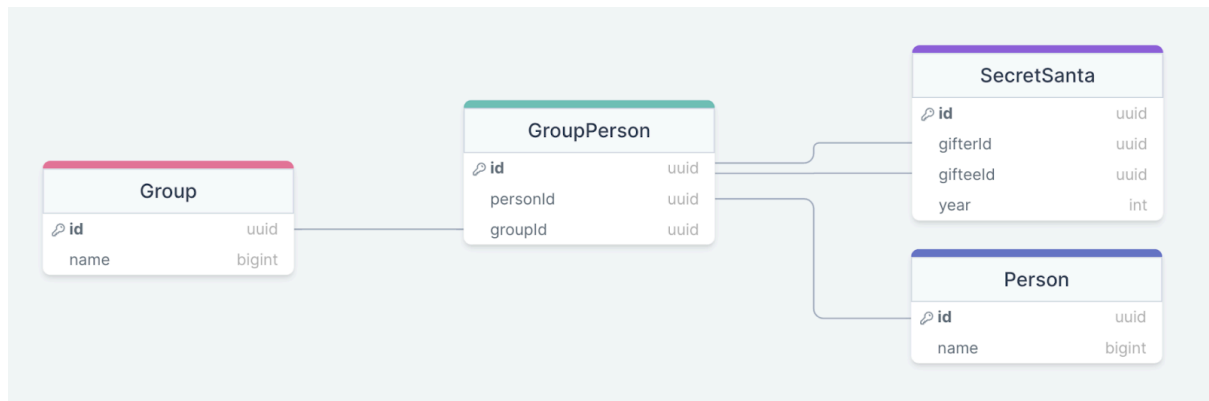
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Backend-End Challenge: Secret Santa

Objective

Create a server for an app that lets you randomize secret santa games. For it we designed the next database diagram:



If you decide to make any changes to the database please create a new diagram and a short explanation of the changes.

Technology Requirements

You are free to choose any programming language, framework, database, library and technology you prefer.

Deliverables

- Link to the repository with the source code, it should contain:
 - Search for a testing framework and create some unit tests. Make a CI/CD pipeline using github actions to run those tests.
 - Document/Readme with explanation on how to run the project.
 - Both versions (V1 and V2) should be available in different endpoints:
 - **POST /api/V1/secret_santa/:group_id**
 - **POST /ap/V2/secret_santa/:group_id**

First Iteration (V1)

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

Second Iteration (V2)

Make a random secret santa such that:

- No one is their own secret santa (Same as V1)
- **You can have the same secret santa once every three years**

Endpoints

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

POST /api/group to create a group

Body:

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

POST /api/person to create a person

Body:

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

POST /api/group/add/:person_id to add a person to a group

POST /api/V1/secret_santa/:group_id

POST /api/V/secret_santa/:group_id

to generate a random secret santa

Body:

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

GET /api/secret_santa/:group_id to get history of secret santas for previous years

Body:

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

```
"2019": {  
  ...  
},  
...  
}
```