# Scoreboard

# Rules 👺

Register yourself on the scoreboard as fast as you can.

## Walkthrough

### 1. Groups 🎇

We encourage you to work alone to get the most hands-on experience, but you can form groups if you want.

#### 2. Get your ID 🎤

You've received a unique identificator by mail. If you've not received it, check your spam folder or contact us to get yours! If you're on a group, gather all your IDs.

#### 3. Create your request 🤵

Following the specification at <u>our site</u>, create your request body with your ID(s) and your preferred nickname, e.g.

```
{
    "name": "Cool kids ♥",
    "members": [
        {
            "id": "582241eff-8b13-26f0-8292-4326f1b27dea"
        },
        {
            "id": "56121edd-2a15-12e6-1163-1236f1a63def"
        }
    ]
}
```

#### 4. Send your request 🧶

Using either a REST client like Insomnia, or using your language of choice, perform a POST request to the /register endpoint with your request body. Example of this in Node:

Example using Insomnia:

Your response *should* look something like this:

```
{
    "token":
"eyJhbGci0iJSUzI1NiIsInR5cCI6IkpXVCJ9.eyJuYW1lIjoiVGVzdG1hbmlhbiBEZXZpbCIsI
m1lbWJlcnMi0lt7ImlkIjoiMmUz0WJlZDEtMmIyZS00YmYzLTg4NWUt0Tc0MTE2YzczMmRiIn1d
LCJpZCI6IlloWnR3T3BRM25lUzd0aG8wUlE1IiwiaWF0IjoxNTcyMDEyMDA0LCJleHAi0jE1NzI
wMjY0MDR9.UM8vns0vEutY0SirxWkpZAlq9PCsPVqvpLwk5YpZ6zaNBjBcyQmPIkW0GEwaJzV0-
H_vJwK4DEPKheH_qtYjg0YW2JHufbcDrF1IGFbkW4adedTodhewWcGe9ug30H76jC5fJpZqwqEv
J8p1juIyEnwjl31UUMfm0pUJraHkUB0qQz1dV65fBHotWAToqVQ33KYH3pT0hgJ1_r_0tuDGE0H
jyxExuBPNmZc4NtISQdPFY9h9UIaxMMof6p013rXqZ7ozD9ddjQkgoevYcu0Hd04g0yxjb29Y2-
ld6ZBVXvE7gNNmVXovaNVZ5BfYaOnFWXBQrhDxpZyHmClKelkJdEc9VGKbUFcc1FqL7J-
vPGiBTQJrv8CavkSxMMtFetHnn4SMeGJqwfdrVxL2fk2K-FHs_0FefQvg9i7q5-
gR91esw6Ml4GMZudgaoFRtYWJJT3R0pMXaMKBC9ln6egjvzUaWYyVNT6W8RG_JtC_rznJ_cnR05
k6p1dl_iMDksNqlFOWJYotYWXwPHXo6ypTBfTRf2oYLycpt19QVom-nBl5hbEuFMXqfhknsYu-
20w4aT-xrzx2Q8-4QvmlClJKZ6YVMkkjJKe5dVPeeCIT3QAIWeNpPWCm-
70Z3G_gK9e34oGi0P5ld0MC66s1-5J3HGxASUR-bNiy1vEv0wgBReiU"
}
```

#### 5. JSON Web Tokens and Authorization

What you've gotten in response is a JSON Web Token (JWT). This is a widely used token format that we can use to store data about the user making a request. When you made a call to the <code>/register</code> endpoint, we created this token exclusively for you. This way, you can authenticate yourself when making further requests that only registered users should have access to. You can see what information we stored in your token by pasting it on <code>jwt.io</code>.

When making authenticated requests, a common practice is to include your token in the *headers* of your request. HTTP headers are key-value pairs that can contain lots of metadata about each request. We check the headers for your token using the Authorization key. Your headers should then look like this:

```
{
    "Authorization": "Bearer <token>"
}
```

The reason we prefix the token with Bearer is to conform with a standardized W3C pattern, which uses the following pattern:

```
Authorization: <type> <credentials>
```

This is just to make you familiar with a standard way of making authenticated requests. If you're interested in knowing more, or want a better explanation, just contact one of us!

#### 6. Submitting to the scoreboard 🐰

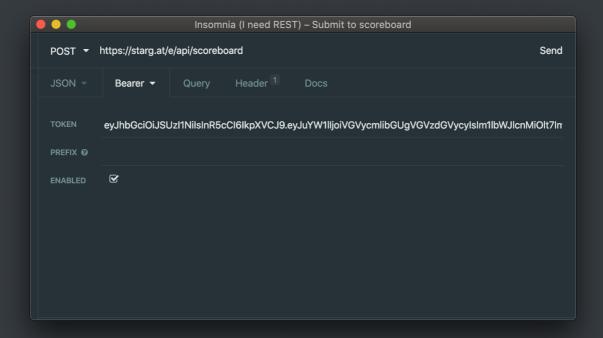
Now that you've got your token, it's time to make your first authenticated request towards the /scoreboard endpoint. Since your information is stored in the token, there's no request body needed. You only need to add the Authorization header with your token. The HTTP method should be POST. An example of the request in Node:

```
// Setting the headers 'manually'
const options = {
    url: 'https://starg.at/e/api/scoreboard',
    headers: {
        Authorization: `Bearer ${token}`,
    },
}

request.post(options, function(err, res, body) {
    // If error
    console.log(err)
    // If successfull
    console.log(body)
})

// or using the request library's built-in auth requests
request
    .post('https://starg.at/e/api/scoreboard', function(err, res, body) {})
    .auth(null, null, true, token)
```

Example using Insomia:



Your response should look something like this:

#### 7. Finish! 👑

Aaand congrats! You've now successfully retreived a token and made an authenticated request! You should now see yourself on the scoreboard. If you'd like, you can send a GET request to the same endpoint to get a list of the groups on the scoreboard yourself.