Lifecycle

❶ Sign In

```
                                              POST
Req: curl client_id : client_password @ host:port /sign-in
              -d username=username              required
              -d password=password              required
              -d grant_type=password            required
              -d usernameType=usernameType      optional
```
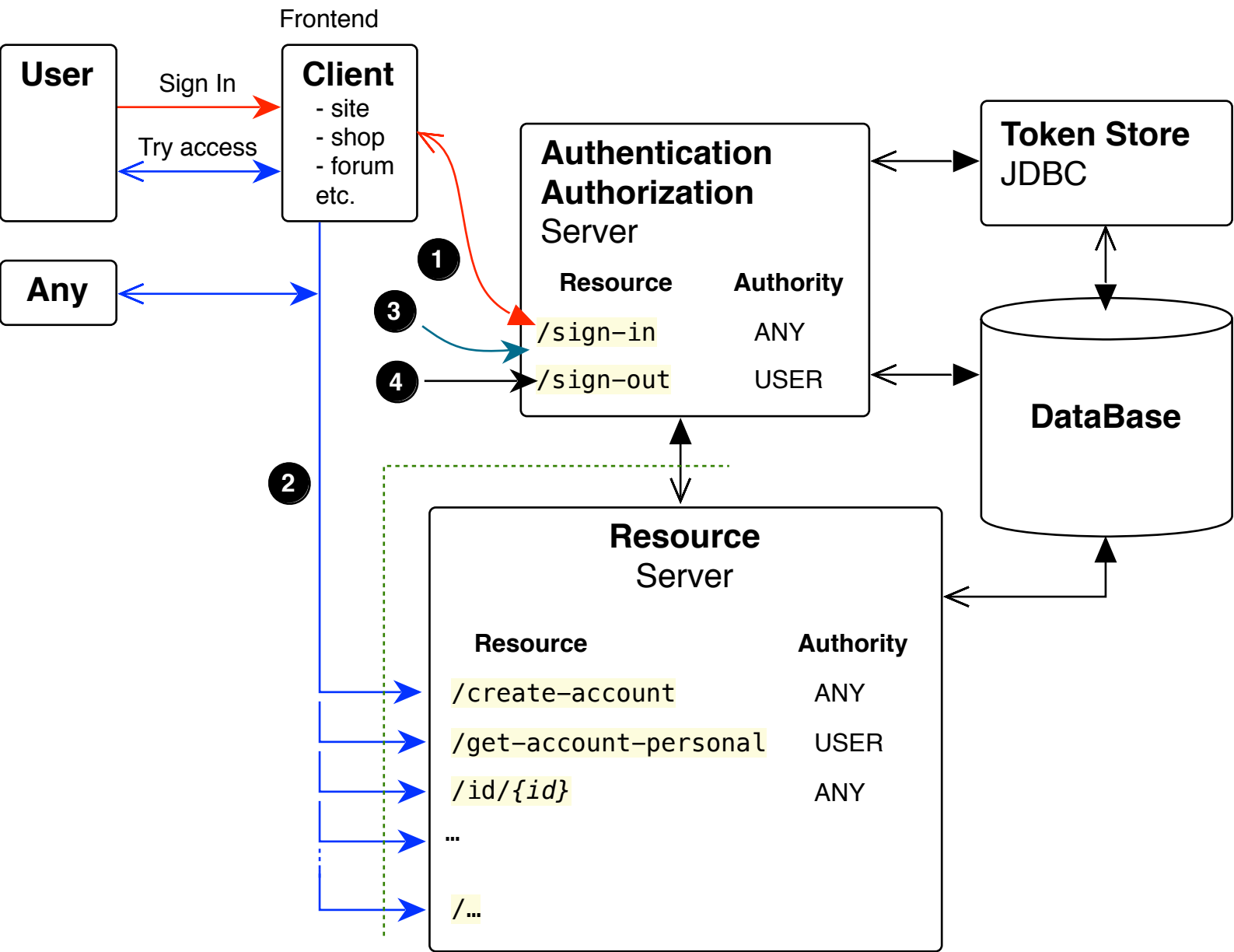
If you need to define a table where stored an *username*, then, when sign-in, you need to pass an additional parameter, for example, this assumes that the parameter is named usernameType, its possible values are: - *EMAIL*
- *PHONE*
- *NICKNAME*
- *ID*

To avoid problems the values *username* and *password* passed in the request must contains characters from US-ASCII, and must be percent-encoded.

```
Resp: {
        access_token  : access token
        token_type    : "bearer"
        refresh_token : refresh token
        expires_in    : token expiration time in seconds
        scope         : list of scopes
        data: {
          id          : account id
          authorities : list of authorities: [USER, ADMIN, etc.]
          createdOn   : YYYY-MM-DDTHH:MM:SSZ
        }
      }
```

❷ Resource accessing

```
                      POST or GET
Req: curl host:port /path/to/resource -H "Authorization: Bearer ACCESS_TOKEN" ...
```

Resp: *resource content* or *error*

❸ Token refreshing

```
                                              POST
Req: curl client_id : client_password @ host:port /sign-in
              -d refresh_token=...
              -d grant_type=refresh_token
```

```
Resp: {
        access_token  : new access token
        token_type    : "bearer"
        refresh_token : refresh token
        expires_in    : token expiration time in seconds
        scope         : list of scopes
        data: {
          id          : account id
          authorities : list of authorities: [USER, ADMIN, etc.]
          createdOn   : YYYY-MM-DDTHH:MM:SSZ
        }
      }
```

❹ Sign Out

```
                    GET
Req: curl host:port /sign-out -H "Authorization: Bearer ACCESS_TOKEN"
```

Resp: *success* or *error*