Day 6
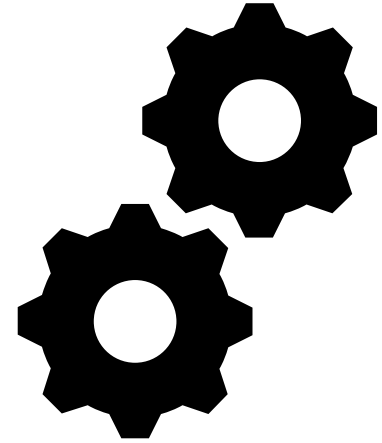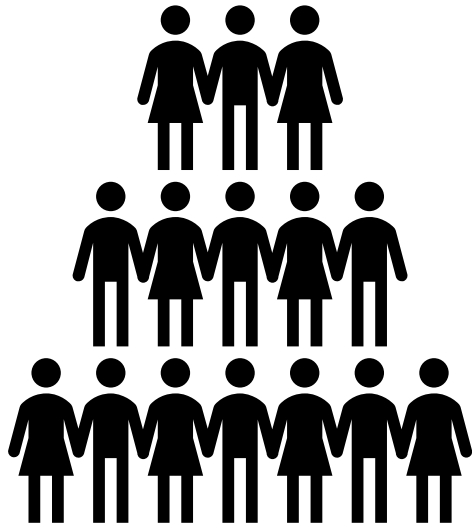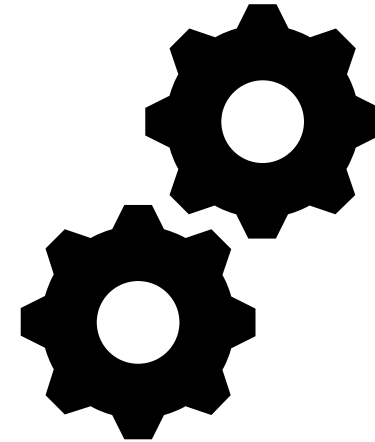# Sessions in Spring

Lecturer: Msc. Minh Tan Le

Session A
Session B
Session C

Session A
Session B
Session C

Client-side

=

A period of time after accessing to website and before closing the process.

Server-side

Server-defined session, including expires/max-age

Expires=<date> Optional

Indicates the maximum lifetime of the cookie as an HTTP-date timestamp. See Date for the required formatting.

If unspecified, the cookie becomes a **session cookie**. A session finishes when the client shuts down, after which the session cookie is removed.

https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Set-Cookie#expiresdate

Determine sessions. Can we use…

Connection?

Determine sessions. Can we use...

IP?

Determine sessions. Can we use…

ID (token)?

But what are tokens?

- Values being used to:

  - Identify sessions

  - Match one or more use cases

- Tokens are:

  - Temporary

  - Random

  - Unique

We **often** use with cookies

- Cookies are temporary data received from specific website.
- Each website can link to many cookies.
- A pack of cookies is sometimes called a cookie jar.

What's inside a cookie?

- Name

- Value

- Domain

- Path

- (Expires/Max-age)

- (HttpOnly)

- (Secure)

…

https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Set-Cookie

Discussion
Should token be saved in DB?

Tài khoản và dịch vụ

Thông tin cá nhân

Hồ sơ

FPT Play Rewards

Quản lý thiết bị

Quản lý thẻ thanh toán

Lịch sử giao dịch

Dịch vụ đã mua

Nhập mã kích hoạt

Đăng xuất tài khoản

Chrome ●

Đăng nhập lần cuối 10:19:01 ngày 25/07/2024

S550 ●

Đăng nhập lần cuối 16:39:18 ngày 04/09/2021

S550 ( ) ●

Đăng nhập lần cuối 19:22:07 ngày 26/08/2021

Samsung-2018 ( ) ●

Đăng nhập lần cuối 19:52:13 ngày 18/03/2024

Android Mobile ( ) ●

Đăng nhập lần cuối 13:41:30 ngày 27/11/2023

Xóa thiết bị

Demo: Build auth functions

1. A login form with username & password.

2. After a form is submitted, show a page with result (successfully login or failed login).

3. Save a cookie to client to remember session.

4. Add logout feature.

Homework

1. Install DBeaver.

2. [Install PostgreSQL](#).

3. Create schema: db<studentID> (example: db15110123)

4. Create DB table (in schema other than public!)
   - user
   - login_data
   - login_session
     - expires (timestamp)
   - roles
   - permission
   - granted_permission
   - assigned_role

Best practice: https://vertabelo.com/blog/user-authentication-module/