DailyHW\_Day2\_Week6

03/29/2022

Notes and Q&A:

<https://docs.google.com/document/d/1O7ogrWUuttxBATKADPk98zPqyQcgCWbdF18YKx0xcSQ/edit?usp=sharing>

Checklist:

<https://docs.google.com/document/d/1fmYhFHUIy44UIId1fpUUV-vWt9RdjD0ghkv9n5PqzBw/edit?usp=sharing>

1. What have you reviewed today?

* Hibernate Framework
  + Config file
  + Session Factory
  + Session
  + Entity
  + …etc
* Hibernate Features
  + ORM
  + Idiomatic Persistence
  + JPA Provider
  + Easy to Maintain
  + High Performance and Scalability(2 fetch types)
* Fetch types
* ER mapping
* Cache
* Cascade
  + persist
  + merge
  + refresh
  + rem

OSI model:

open system interconnection model (PDNTSPA)

Physical Layer

Data Link Layer

Network Layer

Transport Layer

Session Layer

Presentation Layer

Application Layer

TCP/IP model

Network Access Layer

Internet Layer

Transport Layer

Application Layer

TCP

* Socket

JavaEE

Servlet

* Init()
* Service()
* Destroy()

1. What new things you have learned today?

Security

Authentication

* + process of checking validity of a user

Authorization

* + Give someone the permission to do some action

Encryption

* + Symmetric
    - Same key for encryption and decryption
  + Asymmetric
    - private - public key pair

Hashing

* + MD5
  + SHA

Encoding

* + URLEncode
  + FileEncode

Spring Security

* + A customizable authentication and authorization framework used by spring applications

HTTPS

* + The secured http

JWT

* + Json Web Token, an encoded JSON data used for data exchange as "Token".

OAuth2

* + It is a way to let users log in to a website/application using the 3rd party account(eg. Google, Amazon, FB, Apple or private OAuth services)
  + OAuth assigns two types of tokens: Access Token and Refresh Token(used to get a new access token after the old one expires)

SSO

* + Single sign on, login once, login everything

LDAP

* + Directory DB

SAML

* + Security Assertion Markup Language
  + Very similar to OAuth, but used mainly for Web/Browser situations.

1. What is your learning plan tomorrow?

* 2 coding questions
* Review Thread, Exception, Java8 new features