Daily Homework

03/21/2022

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?

OSI Model:

* 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

For HTTP(in application layer)

HTTP Status Code

* 1xx information (100 - 199)
* 2xx success (200 - 299)
* 3xx redirection (300 - 399)
* 4xx client error (400 - 499)
* 5xx server error (500 - 599)

TCP vs UDP

1. TCP is a connection-oriented protocol, whereas UDP is a connectionless protocol.
2. Speed diff, as TCP is comparatively slower than UDP.

Overall, UDP is a much faster, simpler, and efficient protocol, however, retransmission of lost data packets is only possible with TCP.

1. What new things you have learned today?

**Spring**

* IOC
* Loosely coupled
* Maintains the life cycle of the object
* singleton
* DI
* Flexible and easy for unit test

* Container
* Factory
* Context
* Loose Couple
* AOP
* deal with cross-cutting concerns
* Increase modularity
* Aspect
* Advice
* PointCut
* JoinCut

**Spring Boot**

* Architecture
* Controller - service - DAO
* Feature of Spring Boot
* Auto-configuration
* Embedded Server
* Self-Executable Jar
* Starter
* Actuator

1. What is your learning plan tomorrow?

* Focus on Spring concepts
* Build a simple Spring project
* A coding question on stack