Different Logging Ionels in Loggis and SU43: •TRACE: Most idetailed land, upd for fine-grained debugging. · DEBUG: Detailed information for debugging

· INFO: General exponetional mossage to truth the applications. · WARN: Indication of protential invar, but not muonaily · ERROR: Every that affect functionality but do not work the application. · FATAL: (suited esorer cousing applications shutdown (Logy). SIF43 ve Log 4; SIF4; is a facada that collows switching between logging frameworks while Log4; is an actual logging implementation. 2. Carfiguring Leaf j to Ly to Consol and File Simultarously: In Cogyj · proporties Logy j. nootlogger = DEBUR, corrole file Logy is - whooder words = way. spacks . dogy; corock Afforder Log 4 j. opportor. romole, layout = wag. sprudre. Log 4 j. hotten log 4 j. Appender. Levrek. lavout. Conversion Pattorn = 1. de fuggy-MM-dd. HH; mm; ssj. 1. - sp. 7. cf. 13:7. L-7. m/" Log 4 j. . appender. file: Orez. apadre. Log 4 j. Fila Appendor Logy ; offender file File : offication, log Logy; affonder file . Rayout = org . whathe . log 4 j - Pattern Layout

deg 49. Afrenour, this languit, Lemonian Pathon=/.d. { 4444-1-4 - dd HH: 1mm: ss}-1. -5P7.c { 1}: 1.L - 1.m./.n

3. Popemana Itus with OFBUGITAACE in Arabution and Matighian

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IMMY. -

. Increased the LI/o wage

. Longe clay files consuming dich space

Mitigation:

- . Set the legging level to INFO wir WARN in foredution
- · the organisational logging (Loglach Amyre Afforda)
- · Limit dog file riggs with Molling File Afferder.
- 4) Appardor vs Logger vs . Layout
 - · Logger: The main logging entity that dogs messages loved on lovel.
- · Appendix: Sparifier volvere logs ishould be written (rounds, file, datalore)
- · Layout: Cafines the format of the log warage. (Eq: JSON, XM,
- 5) Prevent verritine Information from Being logged
 - · Un logging filter to much Muitine data
 - · Implement MDC (Mapped Diagonalia Content) to track survivine dogs,
 - · Avoid dogging view wer input directly.
 - · Une austoin log ironitization utilities before logging
 - 6) Rolling File Appender in Logg ; (Inselving Only Last to Log Files)

. or appoint of restores or appoint or

logy; appendir - rolling = org - whole , logy; . nolling tile. logy; of funder, rolling. File: of phication; log log up; - opporter. rolling. Maxfile Sing = 10 MB leg 4 j. Appendor. rolling. Dayout : org. spacke . logsej. Postanlayou logy j. appender, rolling, Dyout. Conversion Patter = 7. do f yyyy -MM-dd HH:MM; SS)7. - 5P /. C fig: 7. L J.M.16 Asyndranous Logging in Logboth & bagging. 7. Enable comprisioner lagging (topics, turned floor) Loglash : L'appendier name : "Asynic" class : "str. yos. Log bouts. classi. Avenelaplada" 2 grave size >5000 C/ Allowing > Cappandon-ref ref: "FILE")> Logity 21: The period part of the training of 2 Arymboggon home = "room, example" level = "INPO"/7. 8) SLF4J Vs. Dog49 mill many mathematical militare transition · SLF & J: Acts or a faise, support multiple logging francoin · Log 4 j: A repulsir logging framework with imae brilt-in Why choose \$ 4=47? If you want florability and want to moith framework losily. 9) Bost Practices for logging in Spring boot · Le application. proporties or application.

Logging. land. root = INFO logging. level: Ion. example = DEBUG logging file name with log , we structured logging with JSON for dether routilety . Avoid examine logging in production, 11) HOL VS. SPL & Why HOL is frobrand . HQL: Object - sciented, works with Hilsonate entities . SQL: Works directly with databas tables. · Why HOL? Database inadpartment, supports largy loading and use artity relationships. 12) HOL Quiry to Fotch Employer with Salary > String hal = "From employee a WHERE e. Holary >: rolary"; guony apony = Desion . Lescote Quony (hal): grow, extraconolor ("alay", 50000). List & Employee > employee: quony, lists 13) Pagination in HOL you , saint water () Query your = soster, viotaquery ("From Employee"). glay , set First Bult (10); 11 ship first 10 records glay, set Max Results (20); // Fatch vest 20 90000de list 2 and lorge > employed = gury . list(); 16 JOIN in HOL NO SQL · HQL Stowns hop: SELECT e FROM amployee e JOIN Q. Separtenerot de WHERE is namo = dept Nama";

SFLET " FROM Employe & INNER JOIN Dapartement d. ON e. dopp. WHENE de name : "sales"; · bay Difference: HOL wer entity relationships instead of table goine. 15) Buth Uppate L DELETE in HOL

HPC updata: Quary query = session, voite puony l'UPDATE Employee e SET a. solony = : new ralary WHERE e.ich = : empited]. group, set Perameter ("reunsalary", 70 000); . showother plate guory, execute Update(): It is a good of the state of Holipelde: monte a mille a apolice monte a par Query query, = ression vicate query ("DELETE FROM Employee & where s.id = : emptd"); guary. retlaraneter ("empty", 10)); yeary. soute Chate (): 1911 de soutoripol : (apolled 1001) I have proportioned (11001 polled): App , set (mot bout to a printer); while first so much May, withou legille (ia); Wields, west as powerly While you again would the 765 SA 76 H of MG the left of Floor and hope of 20 are land to the state of I were he some hittense