**(Deployment, Concern) Topic 0:** run test command script use work docker build file container try execute environment log start set server task job fine get pipeline deploy service output variable want terminal window agent local write different step result application follow production create jenkins ssh shell machine also fail issue change case powershell setup console config default bash locally project process app image configuration add via line compose stage idea heroku system way launch inside go see without dockerfile env host currently however directly exe release everything yml action dev like azure root development able take schedule directory ansible time configure linux specify git

**(Architecture goal, Foundational)Topic 1:** would need one make like way use could case thing think good well solution see look might know go also even different option say question answer may something since actually two best approach take time seem let much instead point easy really lot still sure end simple example bit first start probably however right though understand separate specific want mean maybe part similar every ask require possible already handle reason always design order kind simply depend keep edit provide comment problem write support quite whole work long enough bad structure logic sense do whether note happen place assume single idea

**(Design principle, Concern) Topic 2:** type variable use function value parameter pointer define argument name reference code compiler like example object would also definition change give allow declare pass case compile member assign follow mean template call copy need store access may string structure one write must instead default provide include understand memory global question syntax within scope say require expression declaration specify struct could non replace initialize constructor accept inside macro cast pas make operator know take null either standard modify allocate point note avoid tell assume something runtime contain simply different attempt hold consider set cannot constant lambda compilation correctly namespace statement

**(Abstraction, Design-Principle) Topic 3:** class method use object call create need code like test way instance implement add function want property interface custom return make example define constructor implementation one new base java two override write static case work main parameter time set widget possible extend well mock inside reference unit handle type another achieve instead pas declare multiple initialize attribute library since null annotation default controller access generate pass swift kotlin generic derive also without self framework follow extension check within abstract every builder parent remove allow know na public suppose subclass wan instantiate common point rather let logic actually perform throw inherit

**(Version Control, Foundational) Topic 4:** change update new delete remove one work add problem branch make cache version issue old git time code push use commit still want merge already clear back repository edit also keep location local set sure state repo solution since get create master go however default last fix need exist clone original reset come without well think seem solve answer previous try case even different note replace modify way happen manually pull list every current would cause remote see control apply whenever updated move nothing step save comment actually github mark never later release resolve trigger disable instead several ignore project

**(Dependency, Concern) Topic 5:** use run error python version file package install try install command get window project work library follow path problem studio build program module visual find add import issue system also compile environment linux dll py windows include line source debug seem folder fix directory set code installation lib could exe machine solution share open application make mac local remove step link pip ubuntu terminal jupyter notebook check computer extension still main microsoft late solve new give macros go download support reference cpp bit target well create bin cmake dependency fine help anaconda either virtual however not vscode prompt copy already

**(Data Integrity, Foundational) Topic 6:** table query database data use sql id record document need get db create insert store mysql want column name update row result field like collection value follow return select join schema key one server procedure try statement way fetch first exist new change possible find migration delete make clause filter retrieve condition know user mongodb check write count another sqlite able please multiple primary postgresql read give unique base hive oracle sure connect access execute perform single employee also two status connection question transaction null sort operation subquery drop contain postgres report firestore part version partition bigquery alter attribute present

**(Model-View-Controller, Architectural (architecture) pattern) Topic 7:** gt net lt core asp name type framework report parameter system application var string web original server bind id convert mvc text project microsoft entity textbox runat api de set publish user ii ef background power role protect exception detail context log lastname error datediff yes dump runtime firstname content rt dual razor label cc echo da data webapi bc uikitcore ca userid link versa bi msg true dynamic sockets produce ee ce cost vice pattern sit specification maplocation startup post tooltip bundle group standard di inbound customer admin message fc cshtml reference position aa private difference dispatcher iis nii sigaction false

**(Authentication, Authorization, Security) Topic 8:** user use token email login access account send session log message permission want password create authentication application need make get api role set check id app request sign bot client google way group add username admin store know information able cookie authenticate service profile go auth call new enter allow possible mail url credential generate server refresh provider register system page jwt address end firebase available also via verify specific web custom security prompt name chat read identity iam multiple discord middleware manually base ask back detail owner issue amp redirect see policy authorization already share cooky right outlook without

**(Deployment, Concern) Topic 9:** app android use device work video play io notification flutter google application firebase phone stream build audio get project want run problem camera code screen know sdk user version find mobile show native help r-studio fine add issue develop start mode api able possible medium apps anyone sound background action upload connect xcode implement idea library emulator dart capability support xamarin share crash record setting manifest activity violin open scan test player unity apple ionic developer com see youtube apk please react solution web iphone time via development thanks face tell channel even link fix always desktop perfectly receive follow

**(Architecture goal, Foundational) Topic 10:** string use line character text word match format want convert need input like output example code replace first remove regex number print space one quote pattern follow byte expression parse encode value way end try result work language contain case letter return single double add check field char python get find read look instead multiple break last write also regular part search special problem empty extract expect split method valid know could give content begin second amp function two mean sentence variable change comma without long literal edit start escape however str include leave ignore bracket command thing specify think

**(Deployment, Concern) Topic 11:** use cluster instance create aws key node azure service topic need source worker driver cloud work connect set deploy lambda pod resource certificate run data storage ec kafka base configuration point deployment access message store help encrypt new kubernetes one backup consumer load target thanks could drive sync partition version volume multiple vm master etc able **redis** consume setup stack secret enable option would metric see encryption log please private queue configure config expect true default system documentation disk **ssl** contact well generate already fail group find rule decrypt terraform scale require second security **elasticsearch** receive start specify support define

**(Consistency, Foundation) Topic 12:** date time day product get year want month one need current example would use data customer hour format help number different every code price last start like order way base show end result total first many add count datetime timestamp per two week series display work range user next filter within item output article take also minute convert calculate second find give max ago old mean thank since id select amount long cart specific group company today event the follow average currently however quantity return interval late age come information try multiple cycle sample purchase anyone timezone always person track

**(Modular programming, Foundational)Topic 13:** use model data want try image layer output code plot train point result dataset graph value python label function follow set input example size shape map make coordinate base feature vector find get tensorflow matrix convert network different axis weight apply create algorithm format calculate sample loss **numpy** problem well also learn tensor **keras** give question two test tf need perform way distance training variable generate know mean number negative pixel validation difference finaldf single predict dimension mask fit linear split reduce regression random original accuracy transformation prediction cross positive batch ml classification provide rate distribution step library vertex compare

**(Architecture goal, Foundational)Topic 14:** help code try work get thanks please know appreciate problem would find someone thank question new advance anyone like understand program error give answer really seem look make I’m hope could solve write solution game search something python many much however sure wrong lot simple go learn tried figure read also far still greatly post time right think suggestion idea come able see explain nothing ask thing follow tell player show create one sorry start say currently let cant don’t well information every fine run direction tutorial take part beginner hello display implement advice luck anything cod good miss maybe

**(Design principle, Concern) Topic 15:** list array object value use key json want like get item data map element loop return need name dictionary create store example try property would one result output string id index new something empty access case function contain first convert instead add every inside give variable also filter iterate follow way code put dynamic order check collection nest two could since format multiple match response field base assign method expect hash single structure pas type pass parse separate iteration append solution comprehension api retrieve say look another exist dict keep extract remove python print provide nested currently current last step

**(Model-View-Controller, Architectural (architecture) pattern) Topic 16:** component react use module node app angular import child get create npm render state parent work vue like file try project main build application add export want route native package prop hook load change json webpack html inside need follow js find redux typescript err way error nodejs index router context could store action pas src root material sure ui undefined config structure show every library cli graphql wrong go think dom new issue path property bootstrap tree default call style implement pass loader browser base fetch javascript backend instead correct api rout use effect jest reducer please web thing define

**(Dependency, Concern)Topic 17:** java project use application error spring xml version get build try property dependency follow apache add plugin jar find configuration org boot problem file eclipse configure gradle service class enable run maven support issue debug server start ide upgrade help also miss solve generate tomcat set load bean update config intellij description resolve util api release able package runtime thanks internal idea library core face oracle com come exception rule context jdk lang develop new process source include warn may compute spark datasource require provide classpath pom liquibase anyone startup hibernate manage register setting jdbc meta fail executor repository catalina

**(Web Architecture, Foundational)Topic 18:** page use php code work html url link try load browser website show site want javascript redirect problem chrome add web template jquery help **laravel** ajax like script open example make new need change way pdf display tag content custom file form follow fine see know include render thing find issue put refresh get different please wordpress create home one thanks google click everything anyone reload thank cs solution edit idea inside dashboard iframe base advance possible without instead route firefox appear webpage index happen look method already console section header go another theme automatically search tab information still ie

**(Design principle, Concern) Topic 19:** number array value element index give sort first one output list two input result size length integer time find example point student loop case need want problem follow set second equal take solution use order check way get bit float possible contain always score also compare would program say count print code add mean maximum must small write may high sum know max large random level zero sequence least return repeat note algorithm condition solve segment many operation able consider let could difference vector three binary great assign iteration match range assume tree position generate duplicate less come low search

**(Architectural Decision, Foundational) Topic 20:** button click select event view show want user change code add option item press open display menu one use work tab make screen window another fragment form create try page call get need update activity box set submit close scroll modal text back first dropdown new check edit problem trigger input main go right choose enter action dialog ui see load list adapter checkbox listener keyboard navigation next also save inside time control disable method bar way current alert navigate switch move hide function pop custom selection handler nothing every fine mouse start app able focus xaml state help appear

**(Architecture goal, Foundational)Topic 21:** like would way look something use find know want work try example seem possible search can not thanks could think solution however sure one question able currently simple different get base generate achieve figure help team right easy far best set say well another appreciate documentation similar let much within result without etc edit suggestion go maybe function idea really wonder anyone answer multiple good anything since around make specific do many approach understand give include else option certain feel guess via clean combination current library situation several filter advance pretty basically directly ask miss region goal accomplish suggest kind

**(Data Integrity, Foundational)Topic 22:** column data row value like want use name dataframe cell create frame table would get first group excel code one try look output two new sheet follow list df variable result need loop index columns add function way number contain work apply second every thanks example line select col id base join dataset panda last fill formula range sample sum different separate set original solution **vba** merge give replace specify miss **spark** edit dataframes three keep empty desire **macro** script multiple order another movie display advance end duplicate achieve per condition remove header single st **pandas** expect extract however worksheet

**(Design principle, Concern) Topic 23:** time process thread run memory take second read program start write task way code job use wait loop data first stop one finish complete queue execution lock close problem every event operation load buffer execute cause limit get issue next long minute step call size think see cpu go question main handle window send batch multiple slow timer back happen keep gb mean stream without know timeout another signal since need block access mb continue sometimes available exit do progress single perform however kill around increase large control currently register avoid application understand processing may fast delay speed byte much

**(Design principle, Concern)Topic 24:** server request api use client send connection data service connect response call http get port side host application address receive header ip network web post try make access remote check socket backend set domain app nginx via endpoint proxy able rest return json site gateway also message url know allow block browser internet machine error need com come different postman read another local body flask back correct express protocol payload forward however curl ssl two external one route content status without controller security config website listen fine traffic could axios apis frontend problem websocket localhost configuration resource serve tcp hit

**(Design principle, Concern)Topic 25:** image want use add element color text change set cs display code also div size style work width make height position remove screen show class need try background html right top animation card container font create fix put problem label get instead property bottom see tag leave bar canvas css layout attribute content window like view draw box give space inside center scroll icon border control resize line px circle hover red margin chart grid move fill appear svg apply effect slide place small header solution another slider render selector black button picture however drag way child could parent side

**(Model-View-Controller, Architectural (architecture) pattern) Topic 26:** field model form view user get add use create django id try name post py attribute controller value entity want save input tag update follow set comment order detail state type category problem relationship data error one show database need work property new template call address custom code method make query project many pas book action know title search amp issue relation see object do list city send display specific entry fill request like instance employee admin status another product submit manage validate ticket exist require blog invoice rail include validation rest persist instead accord assign correctly company populate must

**(Design principle, Concern)Topic 27:** function call return code value statement first result try print check work get use like write second make run line need method execute something pass case parameter variable true console change also expect block pas callback wrong instead false follow correct inside loop test see else input problem another argument output async even way promise condition one always set end log without example time receive correctly understand put however still could though empty reason last miss happen trigger properly anything state null may javascript stack new actually seem want show logic snippet whether await undefined simply evaluate must observable boolean

**(Design principle, Concern)Topic 28:** error try get code work message follow issue exception problem run fine wrong can fail line not seem throw fix see cause use give show even log find however expect help happen solve tried something without reason occur test idea please null crash check also keep resolve debug still warn anyone sure come edit know catch nothing correct console say though figure go read appear everything might due start anything look simple whenever invalid think thing receive weird fails attempt someone thanks handle typeerror miss properly able could validation execute syntax raise produce success correctly bug stop successfully fact remove

**(Consistency, Foundational) Topic 29:** file folder use directory path save code read try download create upload want csv need write get image name content script follow python copy way open project inside xml load import json output data zip work like txt also store put source text please one able make look give help new location sub storage blob contain find resource bucket asset structure exist root command relative filename export example pdf move drive dir convert format thanks line main extract current place destination without rename document another excel simple access chunk external share url generate data sample uploaded tool locate parse multiple

**Top Topic Categories:**

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Foundational: A beginner level question or answer related to software architecture. Some posts may not even be related to Software Architecture.

Architectural (architecture) pattern: User posts a question or answers a question related to a specific software architecture.

Security: User posts a problem in software architecture related to security issues.

**Topic level Categories:**

Consistency, Design principle, Model-View-Controller, Data Integrity, Architectural Decision, Architectural Goal, Dependency, Modular programming, Deployment, Abstraction, Version Control