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ie we will rall function JAPi that will interact with our waterp software calls the fute and will give the response of there are a possibility. there are a possibility of error.

Its just a contract + ie we are just concurred of how to call funpapi, not concerned about the what the function does.

where the function or API be exposed ? Eg we have a microsernice -ie alebré appli / watsapp group display authed n payment Services dervice 4 B B 6 services Service 2 60 In our microservice architeture there are no of Services so one get adinin fun! Api Should be placed at service 3: group service stequeste get Admin (String groupID) (if everything 13 good) 91 esponses List < Admin > admins responsent error group does not exists responses & ersor gip Ip has be is deleted \* Things to keep in mind while generating Apr/calling API 9 @ -> Naming is imp. D= giving our Api more into so we don't have to call other Api = use when we want our Api to be fast. So addition of paramatus are wefu ey -> get Admin (string gepid, string gepname) B response should & contain only defined results

Eg we call admin

in response we get admin.

grep created date not needed

no a people in grep\_\_not needed

sometimes, in response of apr call the developers include additional information a apprecessarly which is confusing. Defining correct levore. Ey get Admins (String geps D) we am gip id as string so we will just definiour Paramalin It user enters id as that them the enor would be thrown and guery would be franked so this is not expected enor. our gipid string & par user int & 2516 71 enorele do 6 voued > if to gripid exist मही कहती कीर error dena की gip id odoesnot exists" 6 0 0 JAPIK > GoogleMaps Co C C - what ISAPI -1 Eg & ruse case of API 0 0 - Types of API 6 -) API Standards API - APPLIN programming Interface. Apply -> when 2 applys wants to enteract with each other, it does though Api's Caro programing & Because one piece of code can interact with other Piece of code which can be sunning on same machine, or defférent machine, it can be en same oranotherlang but one piece of code would interact with another Piece of rode programatically (we can send ; read or fetch data) Interface - abstraction - [code] code) ci will call call call call (2 through AP) a knows with that he needs to call ca., but he dognot knows now Czisalon

Interface > one coole knows which code to call to does 900 be doesnot know how the ca works 60 5 Eg we hit post builton on ins 5 60 when use the post button, the API will call post photo 0 00 code that will post the photo - post butt on only knows that he needs to call post--13 photo coole Api, but he doesn't knows how the postphotocode 6 10 Apl 1 code worker 500 Aprit we have an Interface with we untreact with another order vie know only what the other wode does. 60 but doesn't know how the implementation of other 0 code is happening belind. 63 6 Adv of API O Following followers 63 @ Abstraction @ communication 6 63 Eg Today we have 200 followers 6-3 we dick follower button - it will call follower ApI and we get end 6 - now some insultion hoppers as no & followers inc 8 - Tommorow next day, lese don't how to do any operation in 00 wde, me just have to dick follower button-that calls 5 getfollower api and we well get result (B) platform agnostic 94 one et code is veretter in java dothe in pother code with help of API we can directly cell other code 8 TYPES OF API -> private Apt -> transaction Ap1 an apay - Public API - google map API, weather API Touch API - apply running on about, eg get follower, superset q 040] BOK/library AP) - lock, reliase, fork, join

FACTORS FOR BUILDING API - API FACTORS 1) > API contracts -> it is a contract or list that the api developer gets before developing any Ap;

Api contract is any because it ensures that the get developed

the Api that is going to be develop would & meet the
expectations of both provider and consumer. . API contract has set of seules a specifications stunctionally = expectation for data exchange . frommun -> what all data should be should. 1 Daccumentation -> Rules how Apr should be availed 3) Data format - data format it in which tan what would be the data format of our Ap, Eg JSON, YMAL, XML file format (4) API security - there should be security to ensure that only valid on True users/code should access one Api AS API is a interface that provides access to well . if no security their an ulligat user can beak our cod or could misrue et OFAPI STANDARDS

-SOAP -> RPC

-> REST