Epirode 2

Features, HLD, LLD & planning

- planning is the most important ecrutial part in project development.
- -) proper planning avoids rejuctoring the code.
- -) 1st step in planning is gathering the nequirements of the project
- 2nd step is Planning the features gowr app
- -> 3rd step is Designing our app which include High Level Design (HLD), Low Level Design (LLD).

High Level Design:

- -> HLD is designed by the serior engineer a Tech Leads
- -> They decide the project architecture like
 - *) what are the microservices the project should have?
 - *) what tech stack each microservices should use?
 - *) How these microserwices communicate with each other?
 - *) what are the security practices should be taken?
 - *) optimization techniques a so on.

Low Level Design:

- -> LLD is Designed by developers, SDE1, SDE2
- -) The decide on various factors like
 - *) what database should be used?
 - *) what are all the collections it should have?
 - *) How the document structure should be in each collection?
 - *) How the Schema 2 model should look like?

+) what are all the API it should have?

1) what is REST API?

- API that uses REST Anchitecture to connect applications.
- It is nothing but a set of nules that allow programs to communicate with each other using HTTP requests.
- and missonerwices, web API's
- 2) what are the characteristices of REST API?
- It should be lightweight, highly scalable, flexible, stateless, uniform Interface.

Stateless:

-> Each request from client to server must contain all the information needed to Process the request.

Uniform Interface:

-> REST API's uses standard HTTP methods

CHET - to get data from the server

POST - to add a new data on the server

PUT - update the entire doc with the new one

PATCH - update only the part of the document

DELETE - to delete the document from a collection