19 Sept

Scr 4113

HLD VS-LLD Migh - architecture Level sintrastructure,

Choosing technologies

Low Level Design - Easily maintainable & extendable code

Classes - blueprint / template

Object - instances of it

Example:

Order - order id, status, add-item (...)

Ly properties + methods

Ly The class itself does not have data

OOPS - Programming approach

Encapsulation: Put them together - putting

properties & members in one capsule.

• Also access control - Private, protected, public

Self child class All classes

Inheritance:

- · Reusable
- · Rastaurant -> chain

Parent child

y

Abstraction: Ability to use features without looking at implementation

Polymorphism - Many torms - clifterent implementations of the same thing

Runtime Compile

Virtual- override

function overloading -Operator overloading

Number of parameters

Type of parameter

eg: process payment () -> Wallet / Card / gpay ...

Interface Abstract class & Vallestaria

Place Order

MakeDelivery -> BikeDelivery

RarDelivery

Some properties will be there but how to do it is taken care separately Egi chass => move junction Implemented differently on each piece

3

	Abstract class -> can	be extended linkerited
		an also have defined funci
	The second secon	<u> </u>
	Interface - can be in	plemented
		Il methods to be implementa
	Collan	
	SOLID principles - Guide	line for designing
0	Single Responsibility Principle	
٠	Single Responsibility Principle One method does one thing	
•	Subjective	
(2)	Open I cuse principle	
	Open for extension, closed for modification	
	\bigcirc	(x)
	Maria Calabara Milla Communication	logges
	logiger class	if typesdeling
	V & @ Error	ese it_
	Debug info logger	else
	Exknsion	Modification
•	If code is modified, ned	ed to test already existing

- 3. Liskov Substitution Principle LSP
 - Subclasses should be able to be used in place of parent class without causing issues.
 - · Animal -> Dog; Dog object can be used as animal
 - · Base class

wherever we are using base class , we should be able to use durived class

(hange-widh(x))
{ width= x

· Subtype

should substitue parent without problems.

· Base should only have which is common for all its children.

All properties.

User

Customer & partner - KYC

Delivery owner

CS CamScanner

(4) Interface Segregation Principles · No client should be forced to depend on interfaces they do not use. · Encourages smaller - more focused interfaces. (5) Dependency Inversion Principles. Decoupling - look coupling Notification manager > High level { if sms => Low level modules Notification Manager -> Inlotification Sender High Krel Abstraction layer between low level