

of.

Principles.
Encapsulat", Abstract", Polymorph", Inheritance.

Encapsulat" -> Bundling of the data & method into Single unit -> (Class).

Eg-Hiding data Erraking it a private Var.

For example in a theatre, it has its own shows, it doesn't mix with others.

Abstraction: It shows only what is important and hide extra details

For example - while payment it does not show the entire bank process it only shows success after the transaction is done.

Polymorphism - One action, many results.

Pay button can be UPI / Card / Wallet - all
behave differently but have Same purpose.

Inheritance - Reusing things; if two people Share Common features (user & admin) we don't write them twice

Class - reser defined blueprint from which obj are created lue can create multiple obj with same behaviour using class.

SK. Method (Behaviour)

Real huorld Examples

Make my Trip:

In the app we be things like users, hotels, bookings. Each of this can be class.

Hotel Name youta Name
Location
No. of Mooms

Book/Game

No. of Mooms

Book/Game

No. of Mooms

Location

No. of Mooms

Reck/Game

No. of Mooms

Reck/Game

No. of Mooms

No. of Mooms

Reck/Game

No. of Mooms

Reck/Game

No. of Mooms

No. of Mooms

Reck/Game

No. of Mooms

No. of Mooms

Reck/Game

No. of Mooms

No. of Moons

Book a troom Login
Check availability Book / Cancel.

A user open app and book a blotel, that booking is saved as a booking object and the payment is a payment object (Admin User) addHotel () name email Hemoue Hotel () login () book() Cancel () [Booking! Booking Hotel booking ID aviline name User flightro location Confirm () bookflight() bookRoom ((ancell). Who book Tidest (), Con al Tidest (). Encopy last "could [Payment] amount thursday method of a set of method pay() are assume everal re abo refund (). The best best with walls Encapsulation -> Hide inner details of payment Inheritance -> Adminkser entends properties we don't have to rewrite polymorphism -> book () will work for both hotels as well as flight. Inheritance Abstraction -> only show what is required (hides complex details).

Book My Show

In Book My Show we have objects like User, theatre, Movie, Booking & Payment. A user will see a list of movie playing at different theatre Each theatre has many shows at different timings. When user books ticket for a show, a Booking object is created with user details, show name & Seat number. The payment object will handle the transact?

think ADP the objects will organ
DOP will help to organize these obj with
properties (movie name, show time) and methods
like book Ticket (), (ancel Ticket (). Encapsulat "will
enty show the transact" details only and
hide the inner details of payment. Inheritance
lets admin user to be a special user who can
add or remove movies and polymorphism will
allow same method book Ticket () to book for movies
events or plays.

Choose Movie Select theatre Show Book ticket Make movie & Show time (Seats) Make Payment.