

Aim:

To implement the concept of object diagram in STAR UML software using an OTT subscription model. (Netflix).

Objective:

To understand & create an object diagram in STAR UML to represent the real time object structure of an OTT subscription model such as Netflix.

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Theory:

An object diagram in UML is a snapshot of the objects in a system & their relationships at a particular point in a time. It is similar to class diagram but shows actual instances instead of classes.

Key Concepts:

- i) Objects: Instances of classes (shown as rectangles with underlined names).
- ii) Links: Represent Relationships (like association or aggregation) between objects.
- iii) Attribute Values: Object diagrams often shows the current values of the attributes.

Object diagrams are helpful in analyzing the system's behaviour at runtime, debugging & verifying class diagrams.

System

Example :

In an OTT (over-the-top) media service like Netflix users can subscribe to different plans, watch content & manage their profiles. A subscription model includes user details, selected plan, payment information & the list of shows or movies accessed / watched.

Classes (Base for objects) :

i) User : Attributes : UserID, name, email.

ii) Subscription : Attributes : PlanType, StartDate, EndDate, isActive.

iii) Content : Attributes : title, genre, rating.

iv) Payment : Attributes : PaymentID, Amount, Payment-Date.

Example objects :

i) User : user1 : user with name = "Alice", email : "Alice@example.com"

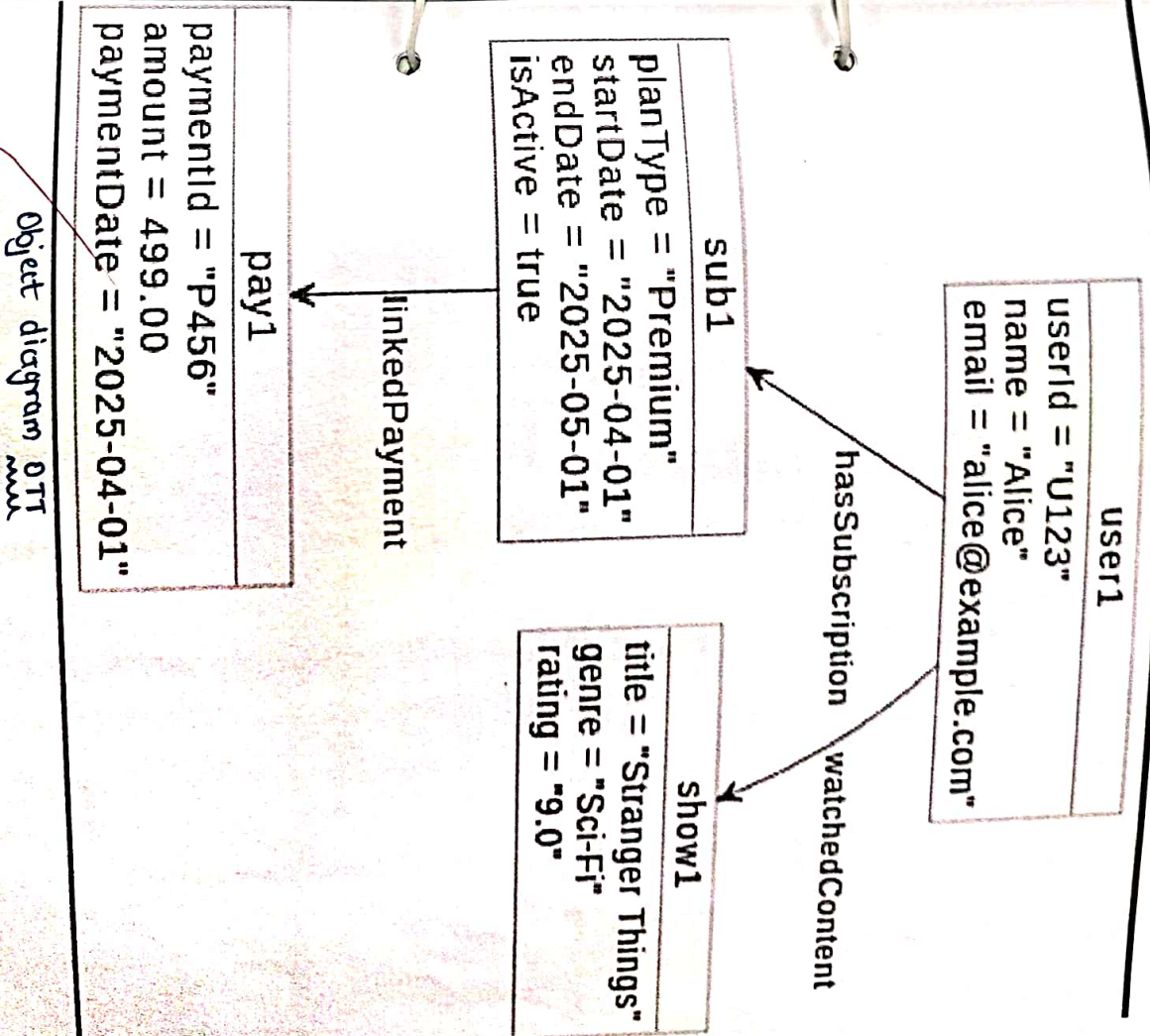
ii) Subscription : sub1 : subscription with planType = "Premium", isActive = "True".

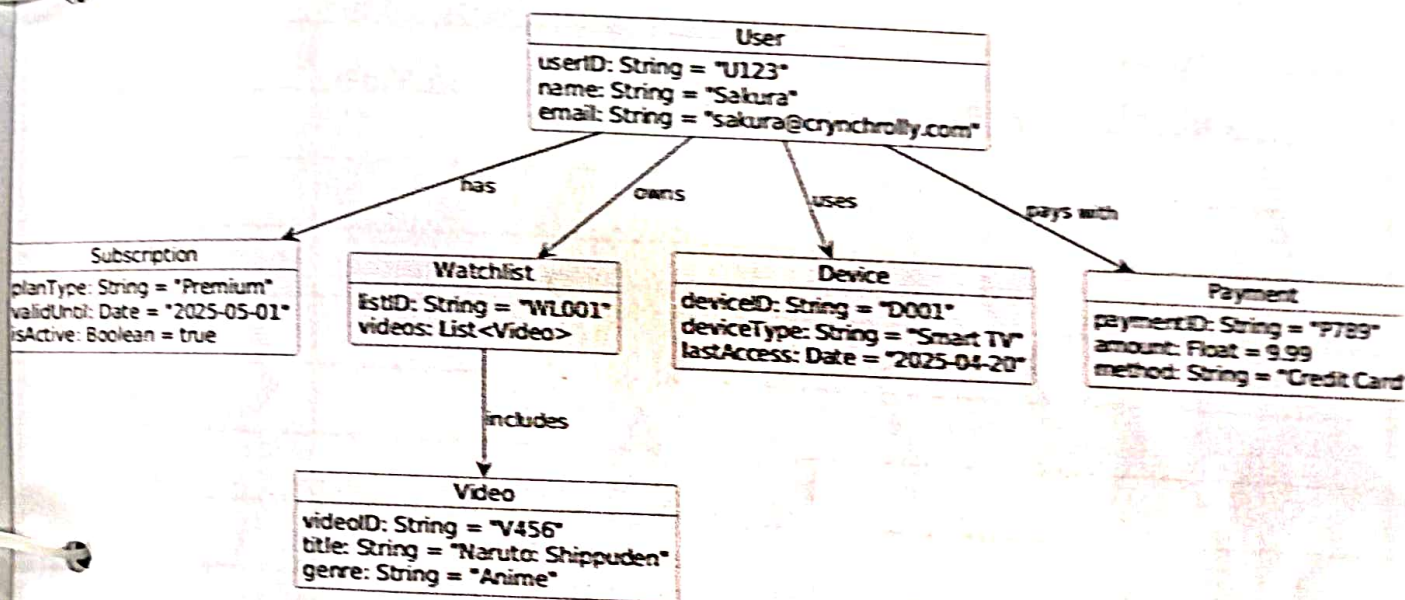
iii) Content : show1 : content with title = "Stranger Things", genre = "sci-fi".

iv) Payment : pay1 : Payment with Amount = 499.00, PaymentDate = "25-01-2025"

Conclusion: Object diagram for the OTT (over-the-top)

Subscription model was successfully designed & implemented in STAR UML, reflecting the real time relationships between instances of user, - Subscription, Payment & content classes.





* Object diagram OTT : Crunchyroll System *

Links :

user1 linked to sub1 (association)

sub1 linked to pay1 (association)

user1 linked to (watched content).

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