

```
1 @startuml
2 'https://plantuml.com/class-diagram
3
4 class User {
5     -int id
6     -String name
7 }
8
9 class Creator {
10 }
11
12 User <|-- Creator
13
14 class Video {
15     -int id
16     -String title
17     -String description
18     -int duration
19     -Genre genre
20     -User createdBy
21     -Comment[] comments
22     -Reaction[] reactions
23 }
24
25 class Reaction {
26     +click()
27 }
28
29 class Like {
30     -User likedBy
31 }
32
33 class DisLike {
34     -User dislikedBy
35 }
36
37
38 Reaction <|-- Like
39 Reaction <|-- DisLike
40 Video o-- Reaction
41
42 class Comment {
43     -String text
44     -User commentedBy
45 }
46 Video o-- Comment
47 Comment o-- User
48
49 class VideoServer {
50     -Video[] videos
51
52     +Video getVideo(int id)
53     +Video createVideo(Video video, Creator user)
```

## YouTube

```
54     +bool deleteVideo(Video video, Creator user)
55     +Video[] searchByTitle(String title)
56     +Video[] searchByAuthor(String title)
57 }
58
59 VideoServer *-- Video
60 VideoServer o-- User
61
62 class ProxyEdgeVideoServer {
63     -VideoServer videoServer
64     -Video<key,Video> videos
65
66     +Video getVideo(int id)
67     +Video createVideo(Video video, Creator user)
68     +bool deleteVideo(Video video, Creator user)
69     +Video[] searchByTitle(String title)
70     +Video[] searchByAuthor(String title)
71 }
72
73 ProxyEdgeVideoServer *-- VideoServer
74 ProxyEdgeVideoServer *-- Video
75 @enduml
```