Class Diagram: Facebook

Requirement :-

1. A user can have a number of posts.
2. A post may or may not have an image or an url associated with it.
3. There are a number of comments on a post.
4. And a comment may follow other comments.
5. User are also related with one another as friends.

Specify the Oops concept used and where?  
And make sure to use Inheritance and Polymorphism in this exercise wherever applicable

Post

+Post\_Time: String

+Post\_Date: String

+Post\_Reactions: Int

+Post\_Comments: Int

+Post\_Shares: Int

+GetTime()

+GetDate()

+CalReactions()

+CalComments()

+CalShares()

User

+Name: String

+Email: String

+Friends: Int

+GetName()

+GetEmail()

+GetFriends()

URL

+url: String

+URLSource: String

+GetURL()

+GetSource()

Follows

Friend

Image

+ImageSource: String

+GetSource()

Comment

+User\_commenting: String

+No\_of\_Following\_comment: Int

+GetUser()

+CalComments()