Exercise: Facebook

OOPs Concept used:

* **Inheritance**: Friend class will inherit all the properties of user class.

A new comment when following the previous comment.

* **Polymorphism**: Associated URL or image.
* **Abstraction**: Hiding personal information of one user from the other.
* **Encapsulation**: All the information of a particular user.
* Without post no comment can exist: **Composition** relationship between comment and post
* **Association** between user and post
* **Aggregation** between Post and Image/URL

Exercise: Employee Role – Task Management

OOPs Concept used:

* **Inheritance**: Developer, QA etc will inherit all the properties of Employee class.
* **Abstraction**: 1. Budget details are hidden from the all others employees except the one with role admin.

2. All kind of data is hidden from Guest User.

* **Encapsulation**: All the information of employee is encapsulated in the form of a class.
* Associated of employee with project : **Aggregation**