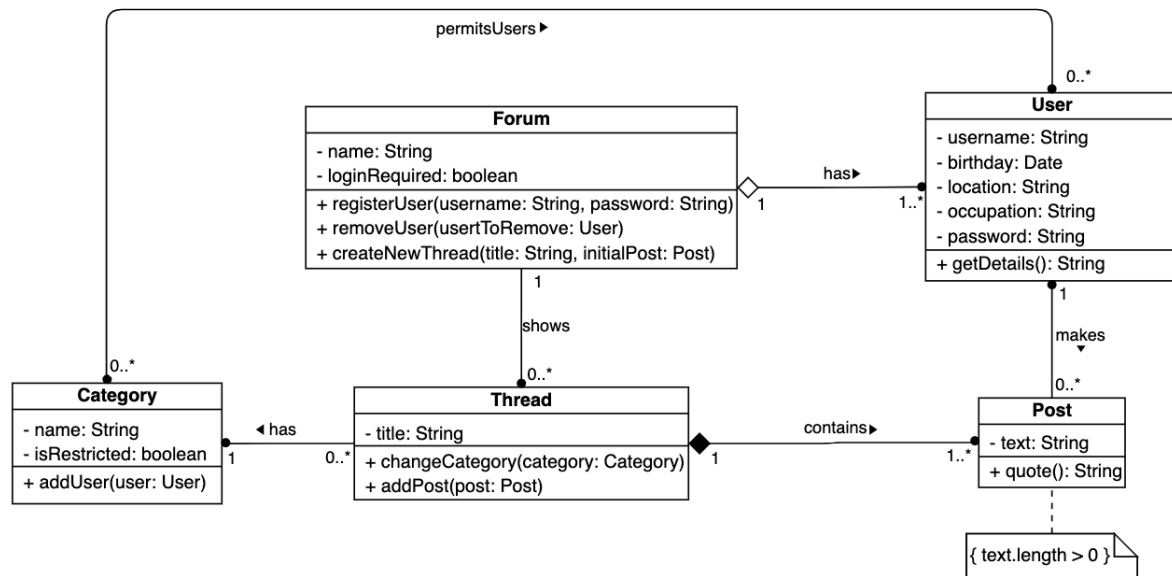# CSF202 – Lab Class 4 – Wednesday 14/10/2020

During this lab class you will gain experience in converting a design in a UML Class Diagram into Java code.

☐ Task 4.1

Consider the following class diagram:

Convert this design into Java code. **Use stub functions** rather than actually filling out the implementation details. Rather than type in your setters and getters manually, Eclipse can generate them for you (Use the menu entry `Source → Generate Setters and Getters`).

Pay attention to the direction of associations (aggregations and compositions are kind of like inverted directional associations). Also pay attention to the multiplicities.

There is a constraint to consider, write enough implementation code that this constraint is captured.

☐ Challenge Task 4.2

The relationship between Category and User could pose some problems. What are those problems and what could we do about it?