

# Advanced Programming

## COSC1295

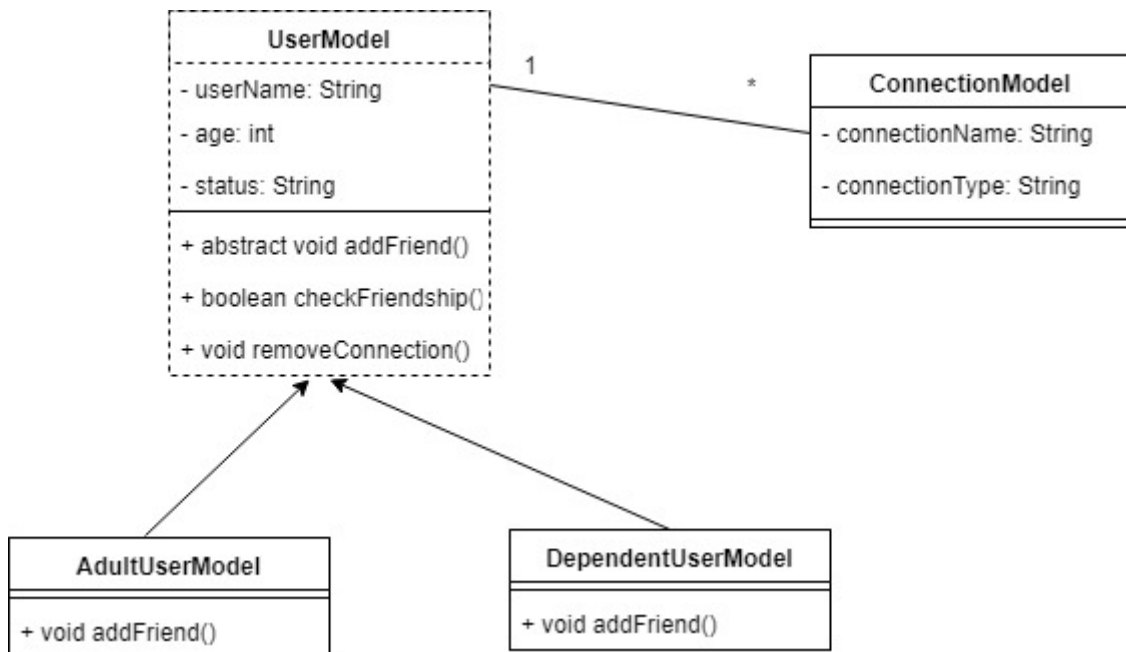
### ASSIGNMENT 1

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## Design

### Class Diagram



The UserModel was implemented as an abstract class as it cannot exist on its own, and also contains the abstract method `addFriend`. Every user has the methods `checkFriendship` and `removeConnection` which is available via the super class. The `checkFriendship` takes as parameter an object of UserModel and returns whether the user is a friend of the passed in UserModel. The `removeConnection` takes as parameter the username of a user and removes that user as a connection. A user must be either an adult or a dependent. Each one has the `addFriend` method implemented differently.

A user can have many connections which can be of type; friend, parent or child.

### Contributions

The contributions for both of us were equal for this assignment, hence amounting to a 50-50 percent workload for each of us.

We were able to better understand the concepts of OOP specially polymorphism while working on this assignment. And also got to know the Java language and syntax better.

The GitHub repo of the project is accessible from:

<https://github.com/rmit-s3676251-lsswarraj-Gopee/social-network.git>