

Group

Jonathan Sweeney: 14343826

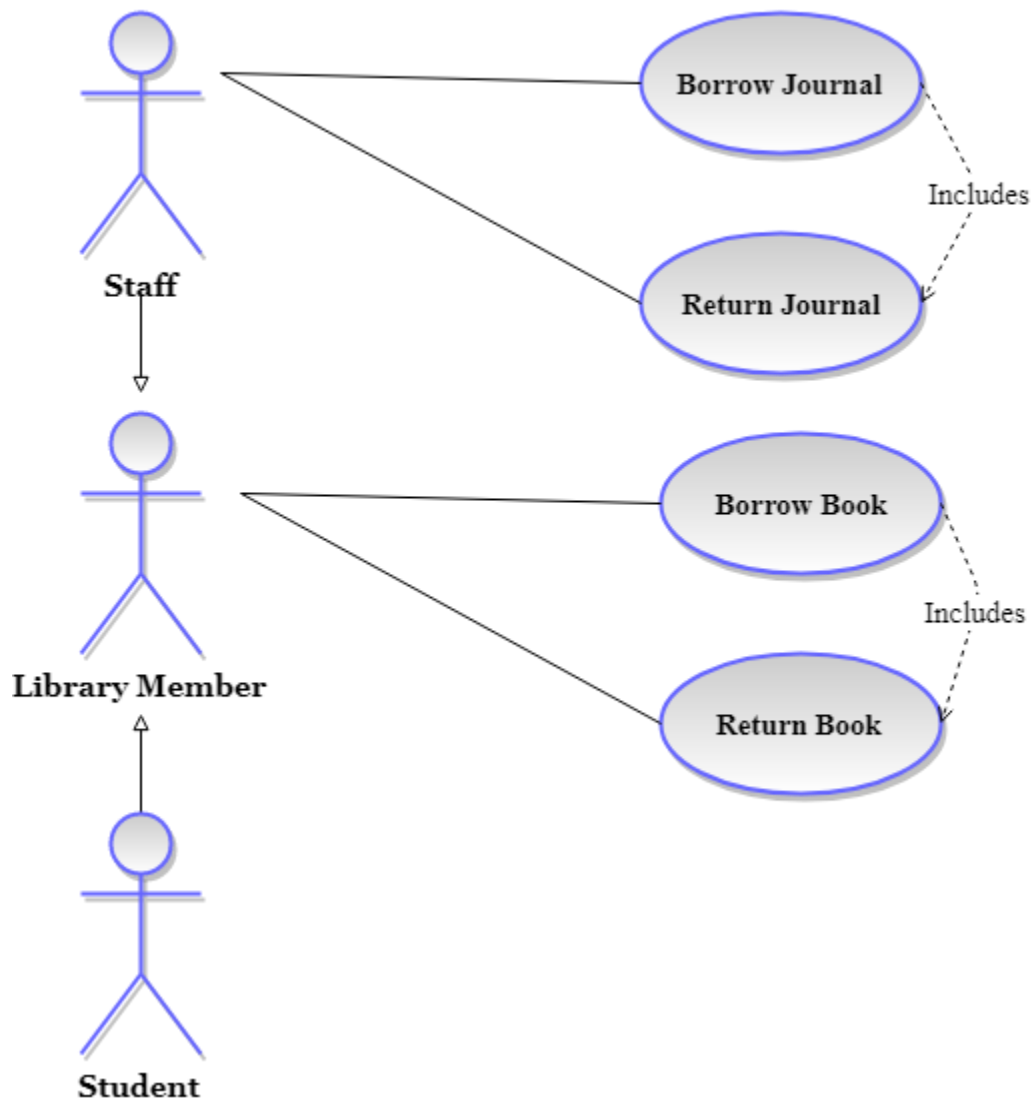
Orla Cullen: 14708689

Gavin Keaveney: 05641349

**Assignment 2 – Artefact**

**Part 1**

**Use Case Diagram :**



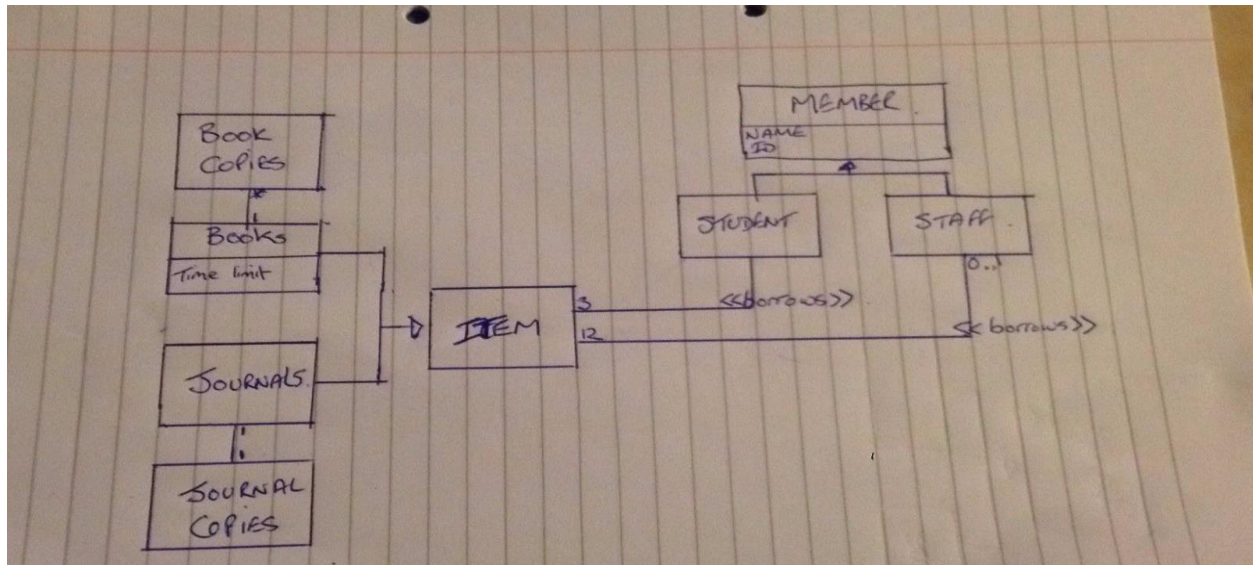
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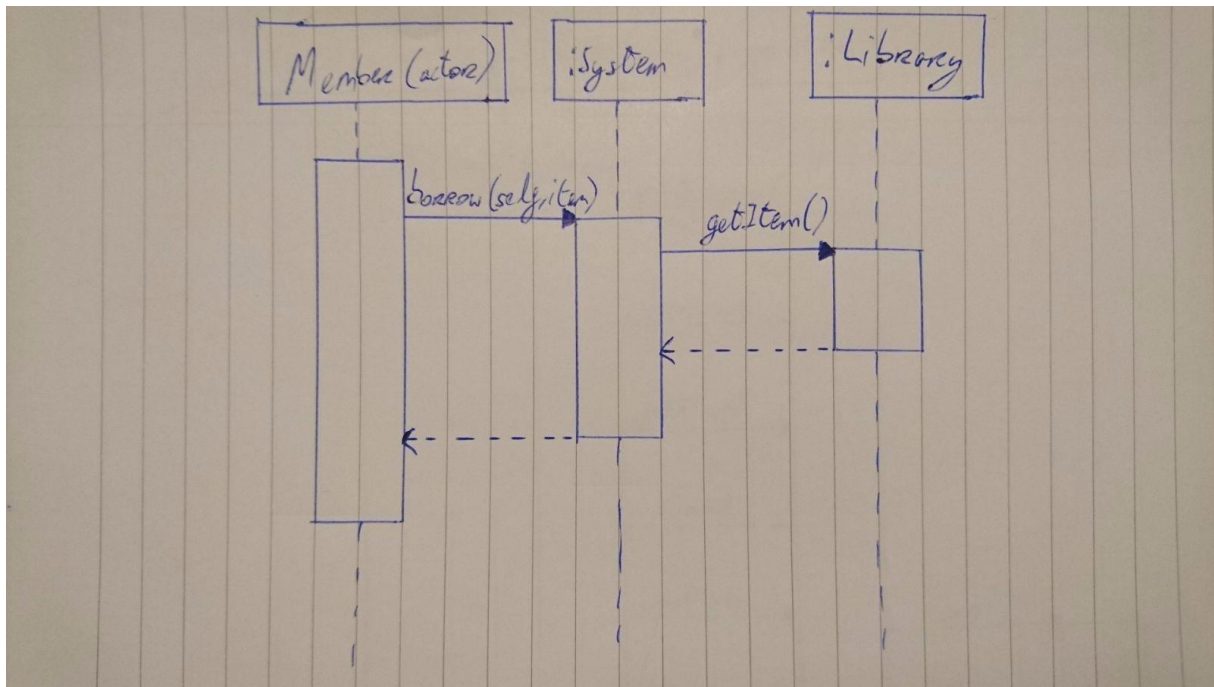
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### Part 2: Class diagram



### Part 3: Sequence 1

This sequence happens when the member wants to borrow a book as part of this interaction first the system checks that the person isn't over their allowance and that the book object it got from the library has an available copy.



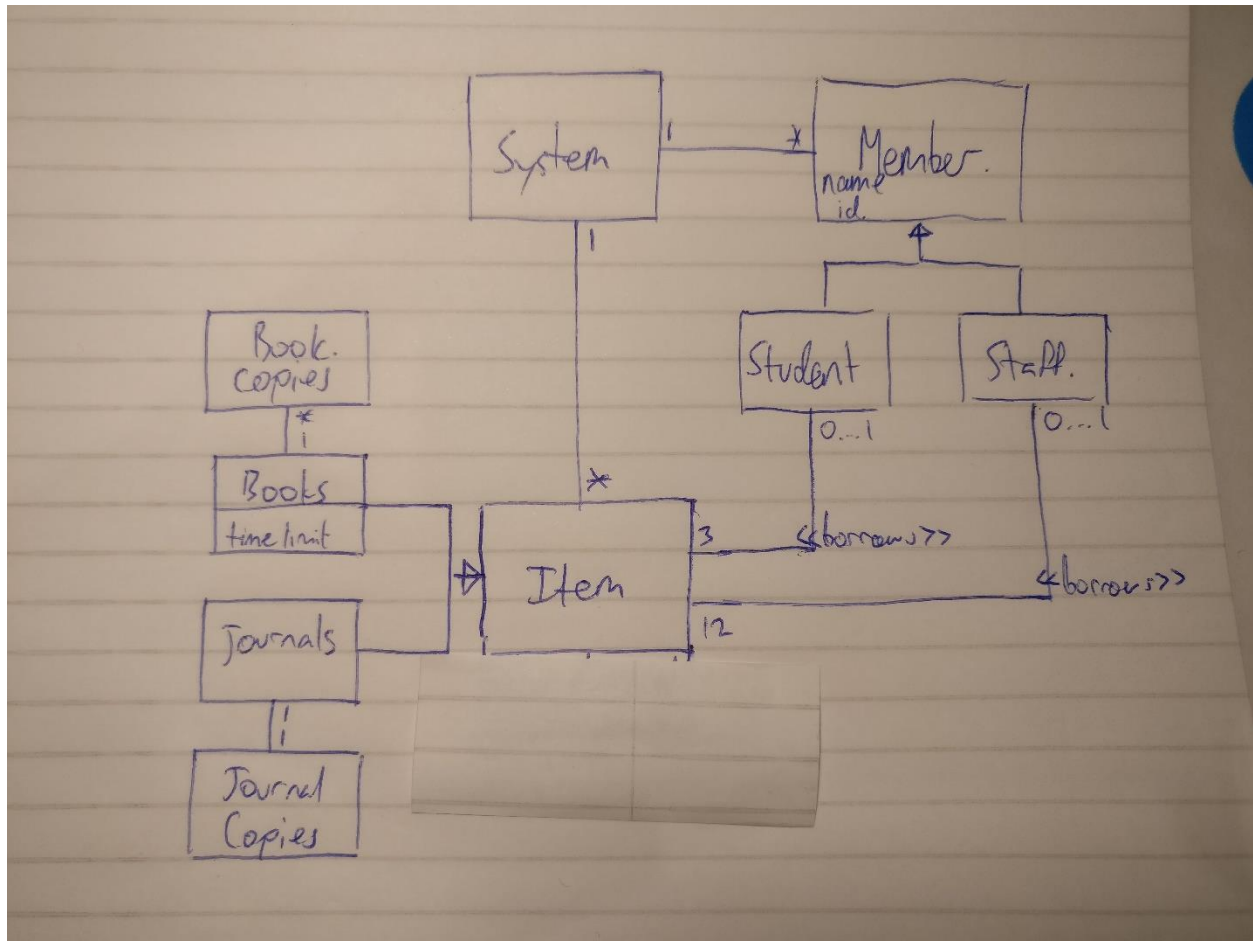
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### Part 4: Class diagram (slight change)



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### **Part 4: Late Notification Sequence**

This sequence happens every day, on each day the system executes the `sendNotifications()` command to the Library system. This runs through all the items and asks each one what member has taking them out it check the length of time they can borrow and checks against the last borrowed date. Then if it's over it sends an alert to that Member.

