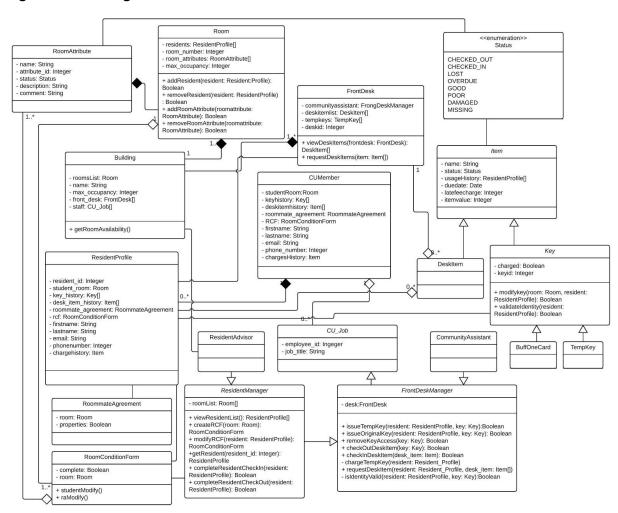
## CSCI 4448 Project Part 3

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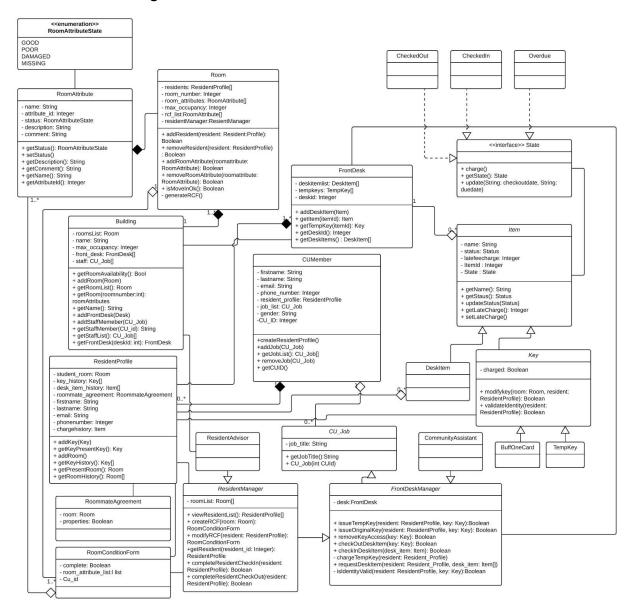
Title:

Revamp Reslife

## **Original Class Diagram:**



## **Refactored Class Diagram:**



## **Summary of Changes:**

We went through and added getter, adders and setters methods to our class diagram.

We separated the room attribute status and the item status. Room attribute status being enumerations and Items we used the state design pattern. The Room Attribute statues is not changed frequently enough making the state design pattern irrelevant here. Only the Item state was changed frequently enough to make the state design pattern useful.

Added Resident profile attribute to CU Member.

We changed our Id system from Resident\_ID and Employee ID to CU\_Member\_ID. This allows us to have a uniform system to identify each individual. This helps us with our Room condition forms because we can look up who made each RCF using the CU\_ID.

We removed unnecessary attributes and methods in CUMember, ResidentProfile, RoomConditionForm, Cu\_Job.

Only a few Examples:

CUMember:

StudentRoom: Room removed -Unnecessary in CUMember it is in resident

profile

Keyhistory: Key[] removed - Unnecessary in CUMember it is in resident profile

ResidentProfile:

Resident id: integer- changed to CU id

Rcf: RoomConditionForm - removed - Changed way RCF's are handled

RoomConditonForm:

Removed student and RA modify

We added necessary methods to CU\_Member, Room, CU\_Job, Room Attribute, Building

Only a few Examples:

CUMember:

residentProfile: added this attribute

CUJob: added this attribute

Gender: We need this attribute for adding residents in a room

Room:

isMoveInOk: this method checks to see if a resident can be added to room

If it is ok then RCF if created for resident with CU\_id

We added relations

Front desk now connects to FrontDeskManager residentProfile now connects to ResidentManager