
SYSTEM FOR OFF-CAMPUS HOUSING

--in Department of Student
Housing and Residence Life

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OUTLINE

- ✘ Organization background
- ✘ Current problem
- ✘ Functional requirements
- ✘ Non-Functional requirements
- ✘ Hardware description
- ✘ UML diagrams
- ✘ Break-even analysis

CURRENT PROBLEM

- ✘ No existing system to serve students live off-campus
 - + Existing system for on-campus applications
 - + Offer Consulting to off-campus students
- ✘ Provide counseling to off-campus student

Functional Requirements

#	Use Case	Function	Expected Output
1	Registration	Student register an account with UTSC email. Landlord register with email address and ownership of his properties	Student/Landlord accounts activated and allowed to post info and send offers etc.
2	Property Record	Landlord post a property record and input info about his properties and tenant preference of the properties.	Property info posted, preference ready for search/match function
3	Search	Search function for both properties and students	Landlord/students able to find the right tenant/property base on preference
4	Offer Matching	Landlord/Students received order. System evaluate each offer can provide ranking	Received offer are ranked by the system base on rcvr's preference & offer conditions
5	Feedback	Student allow to provide feedback on student/landlord/property Landlord allow to provide feedback on student	Feedback are given and recorded in database. Will be used when provide ranking

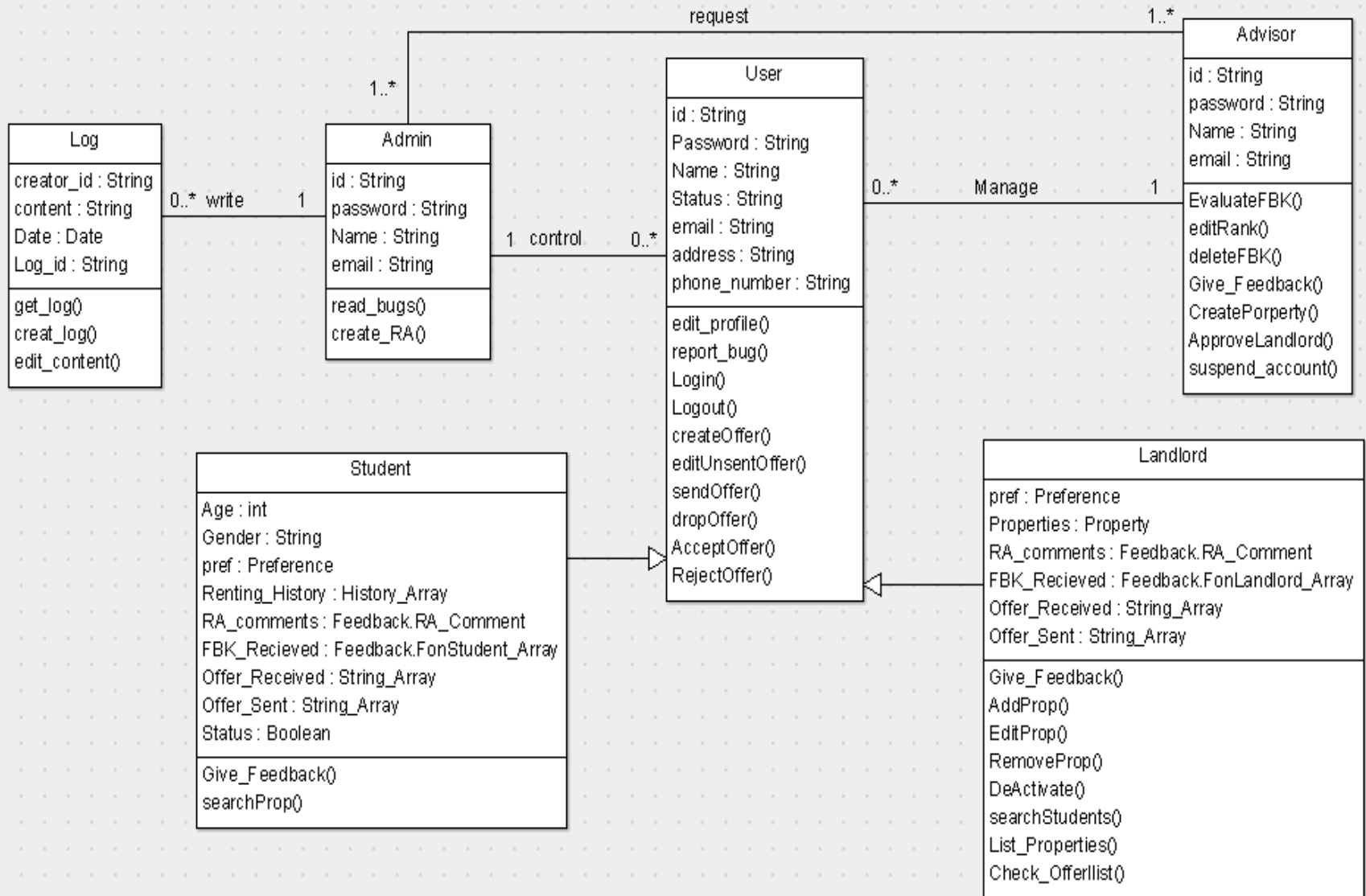
Non-Functional Requirements

Criteria	Requirements
Information Credibility	Residence Advisor to verify landlord's identity, credit history and evidence of ownership during registration. Student credibility will be guarantee by the University system
Information Security	Information on the system are to be stored in university server and protected by the university information security department
System Performance	System's up 24/7 and should be able to handle access of 200 users at the same time. Page load will not exceed 5 seconds in the worst case when tested in university network
Censorship	Residence Advisor to read the newly updated information on the system. Inappropriate words or unfair feedback to be censored by the system. Auto censorship to be developed in the future when user grows beyond 500

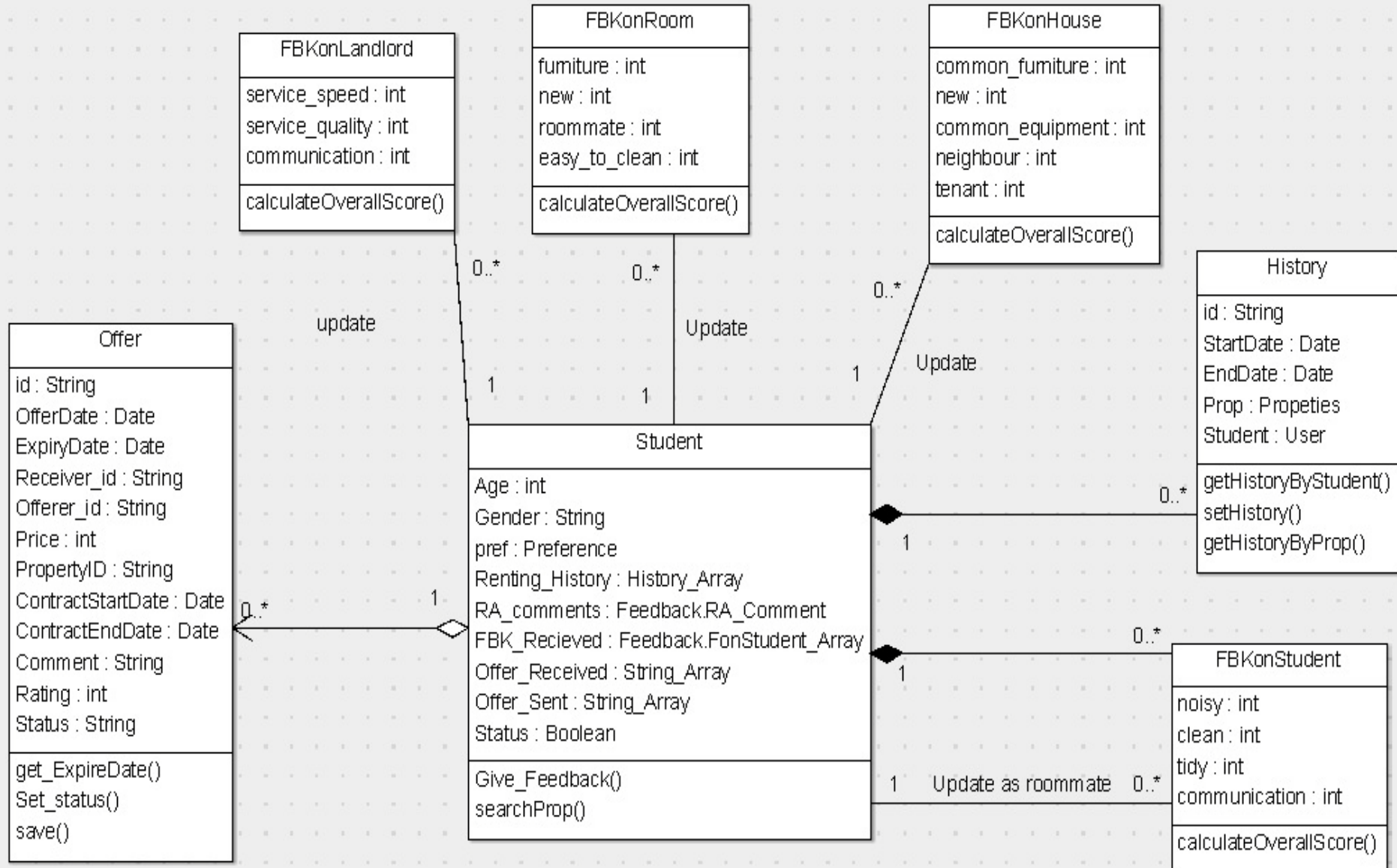
FEATURES:

- ✘ Operating System:
 - + Microsoft Windows 2008 Server edition
- ✘ CPU: Intel® Core™ i7-based server
- ✘ Memory: 2+ TB RAM
- ✘ Hard Disk:
 - + Several Terabyte Drives in raid [7200 rpm]

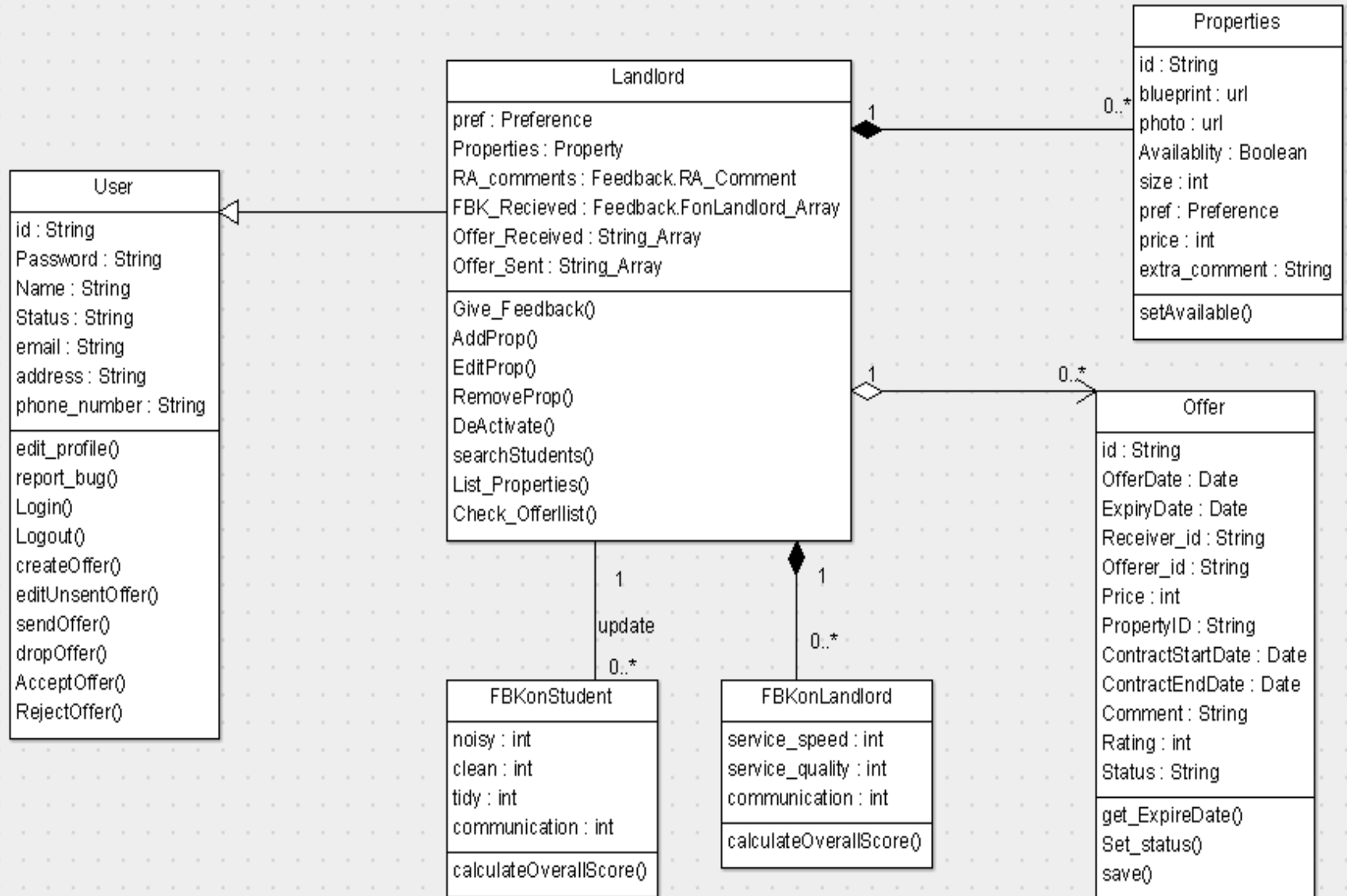
USER & ADMIN LOG



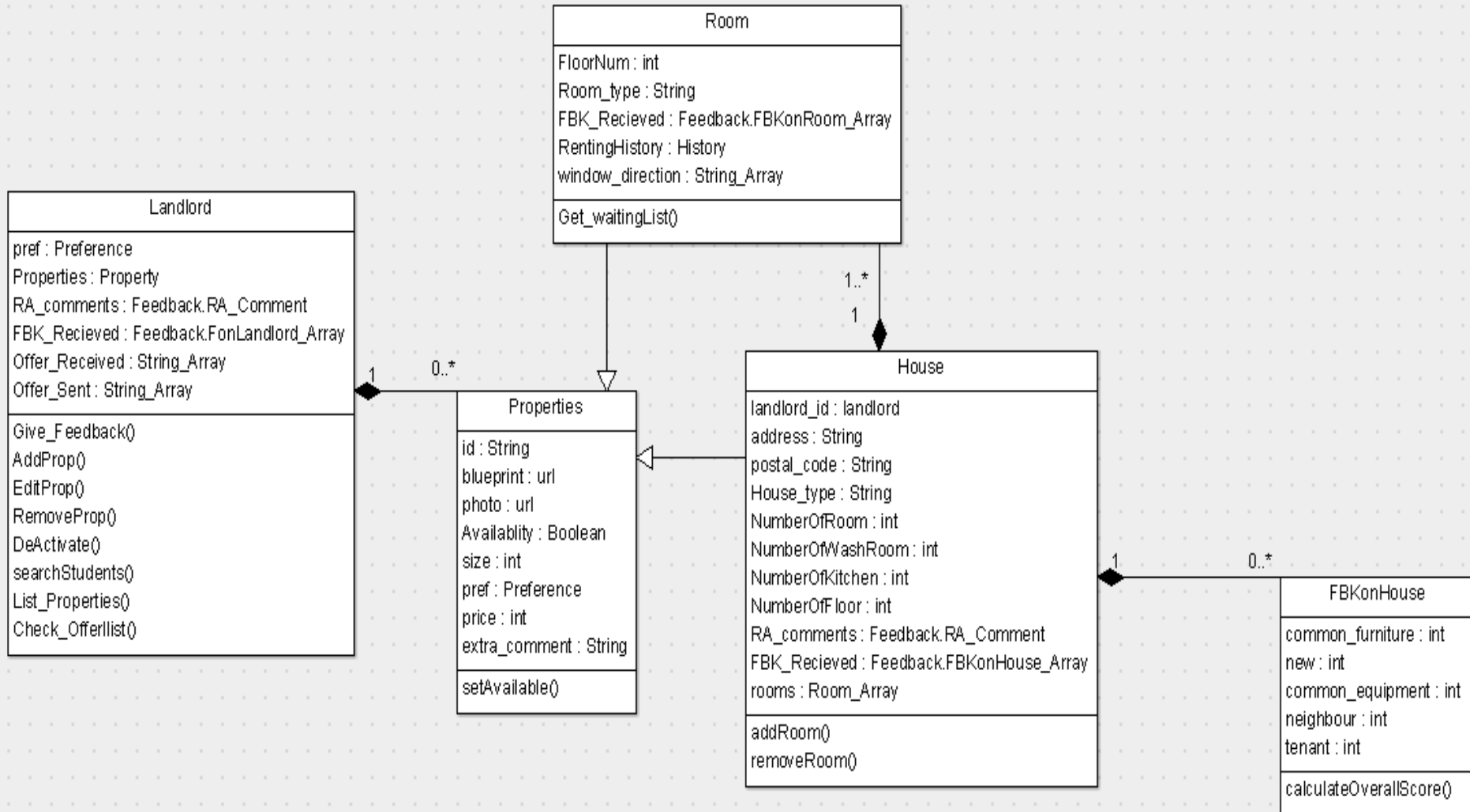
STUDENT



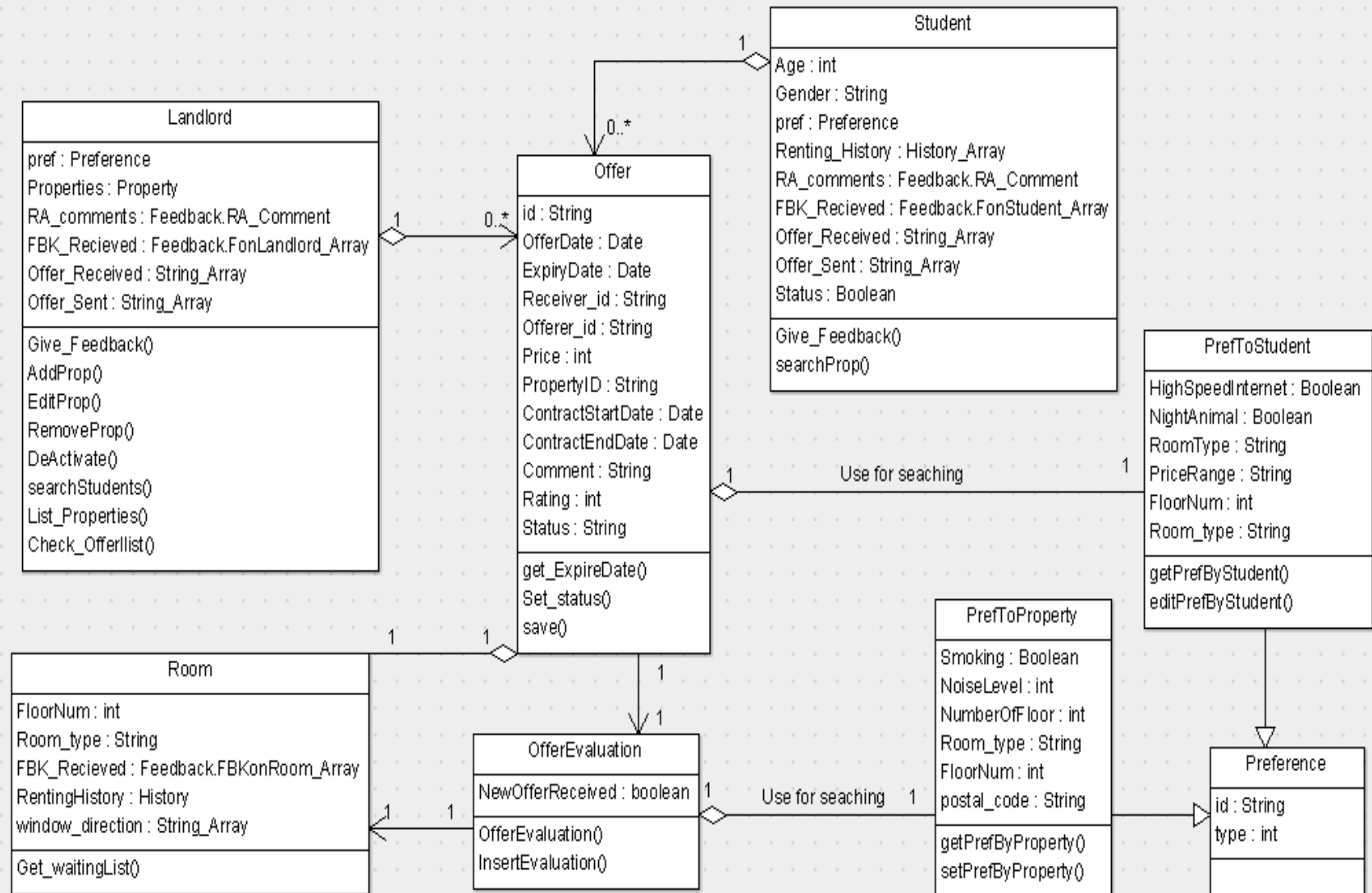
LANDLORD



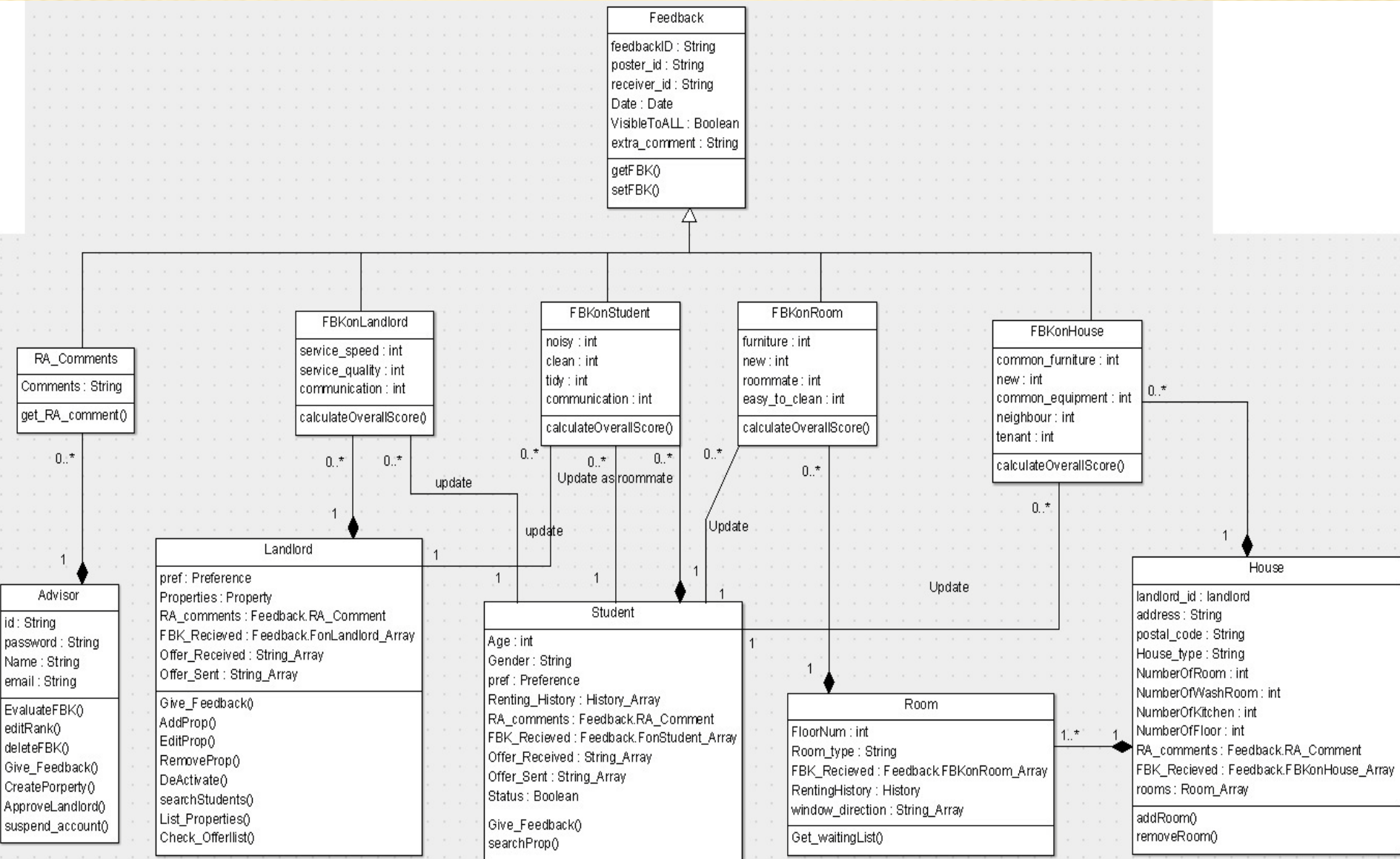
PROPERTIES



PREFERENCE * OFFER & OFFER EVALUATION



FEEDBACK



BREAK-EVEN TABLE

Cash flow description	Year0	Year1	Year2	Year3	Year4	Year5	Year6
Development cost	150,000.00						
Operation & Maintenance cost		7,500.00	8,500.00	9,500.00	10,500.00	11,500.00	12,500.00
Discount factor for 5%	1.00	0.95	0.91	0.86	0.82	0.78	0.75
Time-adjusted costs	150,000.00	7,140.00	7,709.50	8,208.00	8,641.50	9,016.00	9,325.00
Cumulative time-adjusted costs overall	150,000.00	157,140.00	164,849.50	173,057.50	181,699.00	190,715.00	200,040.00
Benefits	0.00	80,000.00	81,000.00	82,000.00	83,000.00	84,000.00	85,000.00
Discount factor for 5%	1.00	0.95	0.91	0.86	0.82	0.78	0.75
Time-adjusted benefits	0.00	76,160.00	73,467.00	70,848.00	68,309.00	65,856.00	63,410.00
Cumulative time-adjusted benefits overall	0.00	76,160.00	149,627.00	220,475.00	288,784.00	354,640.00	418,050.00
Cumulative lifetime time-adjusted C&B	150,000.00	80,980.00	15,222.50	47,417.50	107,085.00	163,925.00	218,010.00

BREAK-EVEN LINE CHART

