

AP Computer Science



Mr Hanley



Bonus 2nd Qtr: Hotel Management System



A venture capital firm is interested in investing in a small software startup that will create a hotel reservation system. The hotel reservation system will be marketed to the hotels and motels around the capital district.

The system needs to allow reservations of 50 typical rooms + 4 specialty rooms (honeymoon suite, etc) The system needs to be able to accept reservations for 18 months in advance. (365+182 = 547 days)

* Dynamic Memory * Big O Notation * Stacks * Extreme Programming * Selection Sort * Insertion Sort * Waterfall Model

String * Arrays * ArrayList * Client Server * Artificial Intelligence * Inheritance * Files * Video Games * Short circuit evaluation *

The system should allow;

- Creating reservations
- Cancelling reservations
- Editing reservations
- Configuring rooms (# of beds, smoking or non-smoking, specify # of beds and what types(king, double, queen). Some rooms are suites which include kitchenettes.
- Creating a printed bill for the customer (must include #days, daily rate, room service charges, pay per view movie charges, late checkout charge, extra person in room charge)
- Dropping days as they pass and adding new days;
 - Whenever some reservation agent starts up the system, days older than 547 from the present day should be purged. Any reservations associated with these days should be purged.
 - New days up to and including 547 days from the present day should be added to the system (NOTE: It is possible that ALL days and all reservations be purged from the system in the event that no one has logged in for 547 days)

Project Name	Assign 7 – Hotel Management System
Class 1 Name	TBD