CS414 Assignment2 Notes

From professor, msg board:

RE: Data Gathering for Get Statistics

Actually there will be differences. you are only thinking of the internal implementation as a query. If I want a report that is based on a date range, I will need to select the type of data I want, give a start date and an end date. Think of the use case as something you can give someone else and have them implement it for you.

If you just tell a developer that you want to query, what do you think the developer will ask you before implementing your requirement? Every query has specific inputs and expects a certain kind of output. If nothing is specified, will you be happy if a developer just dumps the entire raw data on the screen?

To figure out which reports may be useful, you can use the Goal Question Metric idea. A garage administrator may have goals related to increasing revenue. To do that, the administrator may need to ask questions such as, when is the garage occupied at high levels because the answer to this may lead to different pricing strategies for different times of day. To answer that question, what kind of report will be useful? So, think of goals, some related questions, and then figure out what metrics (data) will help answer the questions.

One you have the types of data identified, you can figure out what kinds of queries are needed (i.e., what arguments need to be selected by the administrator, and what results are expected).

Otherwise, a generic query use case is useless in that anyone can implement it in any way s/he wants.

Re: Payments

Accept multiple forms of payment

If you do have credit card authorization, you can pretend to take the input (16-digit number and exp date) and the system just checks if it's a valid number (ie. it has 16 digits). No need and you can't use a real credit authorization system without getting into trouble.

All you need to do for cash payments is that the driver or cashier enters the amount in the system (like Larman's POS system) and the balance is reported. No need to show a cash register opening and closing.

RE: Policies

Policies are up to us (min amount due), Max amount due.

Size of the garage:

Size should never be hardcoded.

Impose a lost ticket fee.