

Business Rules Cheat Sheet by tnbergeman via cheatography.com/21630/cs/4208/

Keep in mind...

Business rules enable the business to make better, more consistent decisions in day-to-day business activity

Learning by Doing: Techniques

Reduction

Elicitation

RuleSpeak

Decision Tables

Validation

Management

Policy vs. Rule

Business Policy: No new home-owner insurance during storm threats.

Business Rule: A home-owner policy must not be issued for a home within the 4-day cone of uncertainty for a storm.

Requirement vs. Business Rule

Requirement: Provide a feature to handle electronic funds transfer.

Business Rule: An employee expense reimbursement must be processed through electronic funds transfer.

How to find business rules?

Look for:

- Repetitive behavior in tasks
- Operational decision points
- Non-trivial areas of work
- Business rules embedded in code

Potential Anomolies

Conflict - rules contradict each other Subsumption - the rule is already covered by another

Redundancy - rules state the same thing essentially

Similarity - rules that are potentially identical but have inconsistent specific qualitifications

Definitional Rules

Computation Rules: "The net profit must be computed as the gross sales amount minus the overhead amount"

Derivation Rules: "A customer must be considered inactive if the customer has not placed an order in the past 3 years" **Decision Rules**: Knowing how to decide

something - Decision Table

Behavioral Rules

Behavioral Rules: Rules that people can violate; "A customer must have an assigned agent if the customer:

has placed an order, and is not inactive."

Identifying Major Decisions

i.e. "Is the applicant eligible for autoinsurance?". For each major decision:

Define business rules that apply to all subdecisions of the major decision

Estimate 5-10% of overall business rules within the major decision

Estimate one-week effort per major decision (subject to scope)

Identifying Sub Decisions

i.e. "Has the applicant given acceptable evidence of insurance?" For each subdecision:

Define business rules that apply to all cases for a sub-decision first

Systematically develop the business logic for each case within each sub-decision

Estimate an average of 2 weeks per subdecision (subject to scope)

If steps 1-3 are done correctly, project team members can work on cases or sub-decisions in parallel

Addressing Breaches to Rules

- 1. Determine enforcement level (strictly enforced, guideline, etc)
- 2. Determine what messaging is needed in case of a breach
- 3. Determine business response in case of a breach

Reduction

Always clearly define each and every part of a business rule that is not cut and dry; "Kids must be in bed by 11:30 on school nights."

- 1. *Time-of-day rule*. Time-of-day is determined by parents' watch
- 2. *In-bed rule*. "In-bed" must be interpreted to include all of the following: Electronics off, lights off, you are in your own room/bed alone, you are washed up.

Continue with School-night rule, Washed-up rule, etc. until all remaining terms are derivable or computable.

Refinement

Remember to assign terms instead of keeping quantities/amounts in the business rule, i.e. "Customers must not be able to place more than *3 orders per day*." becomes "Customers must not be able to place more orders than the maximum number of orders per day."

Handling Exceptions

Two rules: "A customer may have access to the warehouse only during regular business hours." and this exception "A gold customer must have access to the warehouse 24/7."

Become: "A non-gold customer may only have access to the warehouse during regular business hours; gold customers have access 24/7."

Decision Tables

Use when you can identify a pattern but cannot create a computational formula.

- 1. List the potential outcomes
- 2. List the considerations (what do we have to consider in making this decision?)
- 3. Define the individual cases (what are the actual different inputs?)
- 4. Define a default and place at the top of the table



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