

COM 423 ASSIGNMENT

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Question: How does Expert system resolve rule base conflict?

For conflict resolution in rule base , there are various strategies that needs to be applied and they are as follows.

1. **Priority/Salience:** Each rule is assigned a priority or salience level. When conflicts occur, the system selects the rule with the highest priority.

2. **Specificity:** More specific rules (those with more conditions) are preferred over more general ones.

3. **Recency:** Rules that involve the most recently added facts to the working memory are given precedence.

4. **Order of Rules:** The order in which rules are defined can determine which rule is selected. If two rules conflict, the one that appears first might be chosen.

5. **Meta-rules:** These are higher-level rules that determine which of the conflicting rules to apply based on certain criteria.

6. **Random Selection:** When all else fails, the system may randomly select one of the conflicting rules to apply.