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**DEPARTMENT OF COMMERCE (IT)**

**COURSE NAME : 21UCI508 - Business Intelligence**

**III YEAR / V SEMESTER**

**Unit III**

**Business Models and Information Flow**

**The Business Rule System**

# UNIT 3

## The Business Rule System

A Business Rule System (BRS) is a specialized software or framework that enables organizations to define, manage, execute, and monitor business rules independently of application code. It plays a vital role in Business Intelligence (BI) and enterprise systems by helping automate decision-making, ensure compliance, and adapt quickly to business changes.

### **Meaning:**

A Business Rule System allows organizations to capture business policies, procedures, and logic in the form of modular, reusable rules that can be executed by the system.

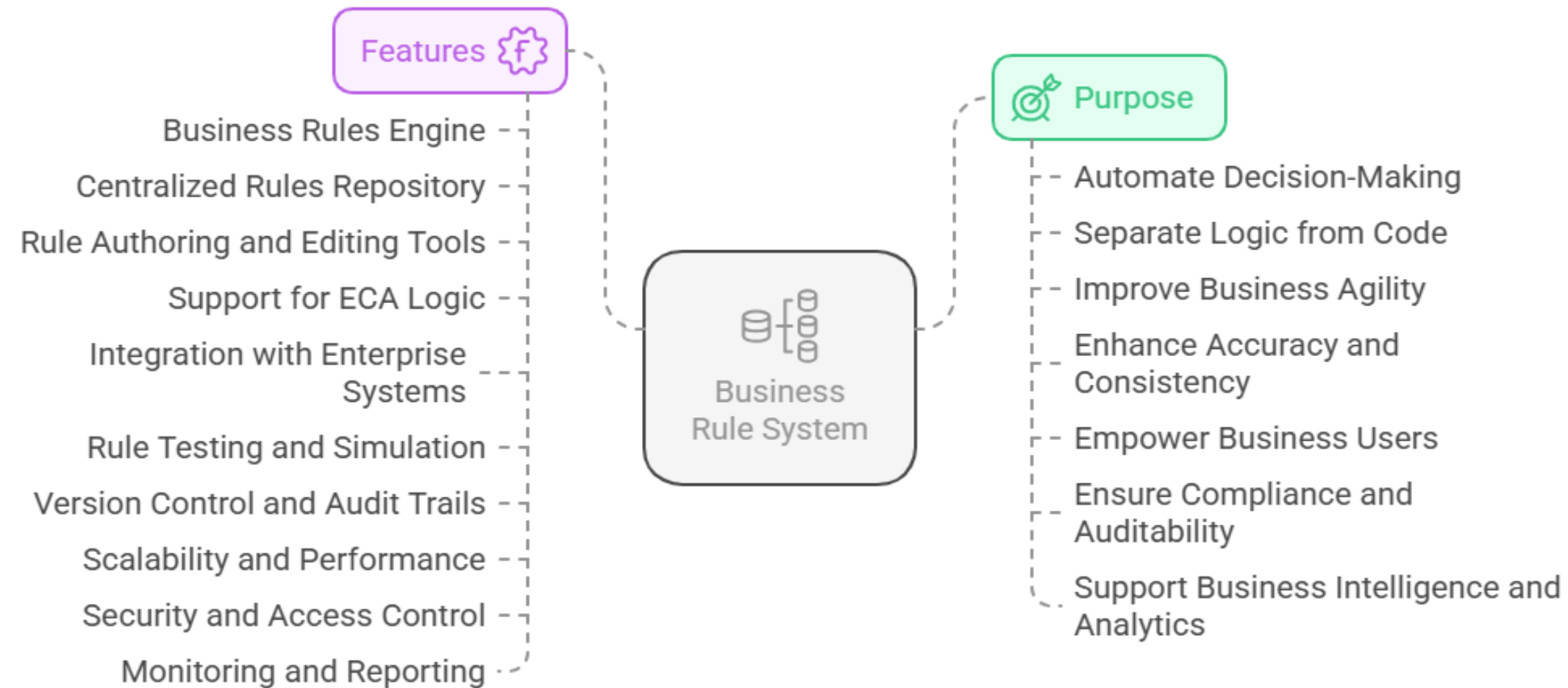
### **Definition:**

“A Business Rule System is a software platform that enables the definition, storage, management, and execution of business rules in a dynamic and centralized manner.”

### Purpose of business rule system:

A Business Rule System (BRS) is designed to manage and automate business logic in a flexible, centralized, and scalable manner. Its core purpose is to allow business rules—which define decisions, policies, and operations—to be separated from application code and managed independently. This empowers business users, improves system maintainability, and enables faster response to changing business conditions.

### Business Rule System: Purpose and Features



### Advantages and Disadvantages of Business Rule System

#### Advantages:

**Improved Business Agility:** Rules can be modified quickly without changing application code, enabling faster response to market or regulatory changes.

**Separation of Concerns:** Business logic is separated from technical code, making it easier to maintain and update rules independently.

**Empowers Business Users:** Business analysts and domain experts can create and manage rules using user-friendly tools without relying heavily on IT teams.

**Consistency and Accuracy:** Rules applied uniformly across all systems reduce errors and inconsistencies in decision-making.

**Automation of Decisions:** Enables real-time automated decision-making, reducing manual effort and speeding up processes.

**Centralized Management:** All business rules are stored in one place, making governance, version control, and auditing easier.

**Better Compliance and Auditability:** Rule changes are logged and tracked, aiding compliance with legal and regulatory requirements.

**Reuse of Rules:** Rules can be reused across different applications and processes, improving efficiency.

### Benefits of Business Rule Management



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### Disadvantages:

**Initial Setup Cost and Complexity:** Implementing a BRS requires investment in tools, training, and integration efforts which can be costly and time-consuming.

**Complex Rule Management:** As the number of rules grows, managing dependencies, conflicts, and redundancies can become difficult.

**Performance Overhead:** Complex or large rule sets may slow down system performance if not optimized properly.

**Requires Proper Governance:** Without strict governance, uncontrolled changes to rules can lead to inconsistencies or errors.

**Learning Curve:** Business users may require training to effectively author and manage rules, especially in complex domains.

**Integration Challenges:** Integrating BRS with legacy systems or multiple platforms can be technically challenging.

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### Weighing the Disadvantages of Business Rule Systems

