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Semantic Web

Exercise sheet 8
Rule Interchange Format (RIF)

Exercise 1 (RIF Requirements) (4 points)

Explain in your own words what RIF is. Enumerate and justify different RIF requirements. (min ¾ page, max 1 page)

Exercise 2 (RIF Architecture) (4 points)

Draw and explain the modular architecture of RIF. (min ½ page, max ¾ page)

Exercise 3 (RIF Dialects) (4 points)

Explain in your own words main characteristics of various RIF dialects. (min ½ page, max ¾ page)

Exercise 4 (RIF PRD rule) (8 points)

Given a data structure modeling a concept of a Product, define a rule in RIF-PRD syntax which governs a special product discount in specific cases, i.e., a product with the price over 200,00 EUR and the quantity below 10 units should be discounted by 20%.

```
Concept Product
   productId of type String
   productName of type String
   productQuantity of type integer
   productPrice of type Numerical
```