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## Apêndice A – Vocabulário SHDM

@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .  
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .  
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .  
@prefix shdm: <http://shdm#> .

### #Classes

**shdm:Context**  
rdfs:label "Context"^^xsd:string .

**shdm:ContextParameter**  
rdfs:label "ContextParameter"^^xsd:string .

**shdm:Index**  
rdfs:label "Index"^^xsd:string .

**shdm:ContextIndex**  
rdfs:label "ContextIndex"^^xsd:string ;  
rdfs:subClassOf shdm:Index .

**shdm:InContextClass**  
rdfs:label "InContextClass"^^xsd:string .

**shdm:Landmark**  
rdfs:label "Landmark"^^xsd:string .

**shdm:NavigationAttribute**  
rdfs:label "NavigationAttribute"^^xsd:string .

**shdm:IndexNavigationAttribute**  
rdfs:label "IndexNavigationAttribute"^^xsd:string ;  
rdfs:subClassOf shdm:NavigationAttribute .

**shdm:ComputedNavigationAttribute**  
rdfs:label "ComputedNavigationAttribute"^^xsd:string ;  
rdfs:subClassOf shdm:NavigationAttribute .

**shdm:ContextAnchorNavigationAttribute**  
rdfs:label "ContextAnchorNavigationAttribute"^^xsd:string ;  
rdfs:subClassOf shdm:NavigationAttribute .

**shdm:IndexAnchorNavigationAttribute**  
rdfs:label "IndexAnchorNavigationAttribute"^^xsd:string ;  
rdfs:subClassOf shdm:NavigationAttribute .

**shdm:NavigationAttributeParameter**  
rdfs:label "NavigationAttributeParameter"^^xsd:string .

**shdm:Operation**  
rdfs:label "Operation"^^xsd:string .

**shdm:PreCondition**  
rdfs:label "PreCondition"^^xsd:string .

**shdm:PostCondition**  
rdfs:label "PostCondition"^^xsd:string .

**shdm:OperationParameter**  
 rdfs:label "OperationParameter"^^xsd:string .

### **#Properties**

**shdm:index\_anchor\_attributes**  
 rdfs:label "index\_anchor\_attributes"^^xsd:string ;  
 rdfs:range shdm:IndexAnchorNavigationAttribute ;  
 rdfs:subPropertyOf shdm:index\_attributes .

**shdm:context\_anchor\_label\_expression**  
 rdfs:domain shdm:ContextAnchorNavigationAttribute ;  
 rdfs:label "context\_anchor\_label\_expression"^^xsd:string .

**shdm:landmark\_name**  
 rdfs:domain shdm:Landmark ;  
 rdfs:label "landmark\_name"^^xsd:string ;  
 rdfs:subPropertyOf rdfs:label .

**shdm:index\_anchor\_label\_expression**  
 rdfs:domain shdm:IndexAnchorNavigationAttribute ;  
 rdfs:label "index\_anchor\_label\_expression"^^xsd:string .

**shdm:index\_navigation\_attribute\_index**  
 rdfs:domain shdm:IndexNavigationAttribute ;  
 rdfs:label "index\_navigation\_attribute\_index"^^xsd:string ;  
 rdfs:range shdm:Index .

**shdm:context\_parameter\_name**  
 rdfs:domain shdm:ContextParameter ;  
 rdfs:label "context\_parameter\_name"^^xsd:string ;  
 rdfs:subPropertyOf rdfs:label .

**shdm:context\_anchor\_target\_node\_expression**  
 rdfs:domain shdm:ContextAnchorNavigationAttribute ;  
 rdfs:label "context\_anchor\_target\_node\_expression"^^xsd:string .

**shdm:computed\_attributes**  
 rdfs:label "computed\_attributes"^^xsd:string ;  
 rdfs:range shdm:ComputedNavigationAttribute ;  
 rdfs:subPropertyOf shdm:index\_attributes .

**shdm:context\_title**  
 rdfs:domain shdm:Context ;  
 rdfs:label "context\_title"^^xsd:string .

**shdm:in\_context\_class\_index\_attributes**  
 rdfs:label "in\_context\_class\_index\_attributes"^^xsd:string ;  
 rdfs:range shdm:IndexNavigationAttribute ;  
 rdfs:subPropertyOf shdm:in\_context\_class\_navigation\_attributes .

**shdm:index\_title**  
 rdfs:domain shdm:Index ;  
 rdfs:label "index\_title"^^xsd:string ;  
 rdfs:subPropertyOf rdfs:label .

**shdm:index\_attributes**  
 rdfs:domain shdm:Index ;  
 rdfs:label "index\_attributes"^^xsd:string ;  
 rdfs:range shdm:NavigationAttribute .

**shdm:navigation\_attribute\_parameter\_name**  
 rdfs:domain shdm:NavigationAttributeParameter ;  
 rdfs:label "navigation\_attribute\_parameter\_name"^^xsd:string ;

rdfs:subPropertyOf rdfs:label .

**shdm:context\_anchor\_target\_context**

rdfs:domain shdm:ContextAnchorNavigationAttribute ;  
rdfs:label "context\_anchor\_target\_context"^^xsd:string ;  
rdfs:range shdm:Context .

**shdm:index\_index\_attributes**

rdfs:label "index\_attributes"^^xsd:string ;  
rdfs:range shdm:IndexNavigationAttribute ;  
rdfs:subPropertyOf shdm:index\_attributes .

**shdm:computed\_navigation\_attribute\_value\_expression**

rdfs:domain shdm:ComputedNavigationAttribute ;  
rdfs:label  
"computed\_navigation\_attribute\_value\_expression"^^xsd:string .

**shdm:landmark\_position**

rdfs:domain shdm:Landmark ;  
rdfs:label "landmark\_position"^^xsd:string .

**shdm:context\_index\_context**

rdfs:domain shdm:ContextIndex ;  
rdfs:label "context\_index\_context"^^xsd:string ;  
rdfs:range shdm:Context .

**shdm:operation\_name**

rdfs:domain shdm:Operation ;  
rdfs:label "operation\_name"^^xsd:string ;  
rdfs:subPropertyOf rdfs:label .

**shdm:operation\_code**

rdfs:domain shdm:Operation ;  
rdfs:label "operation\_code"^^xsd:string .

**shdm:pre\_condition\_failure\_handling**

rdfs:domain shdm:PreCondition ;  
rdfs:label "pre\_condition\_failure\_handling"^^xsd:string .

**shdm:in\_context\_class\_context\_anchor\_attributes**

rdfs:label "in\_context\_class\_context\_anchor\_attributes"^^xsd:string  
;  
rdfs:range shdm:ContextAnchorNavigationAttribute ;  
rdfs:subPropertyOf shdm:in\_context\_class\_navigation\_attributes .

**shdm:index\_parameter\_index**

rdfs:domain shdm:IndexParameter ;  
rdfs:label "index\_parameter\_index"^^xsd:string ;  
rdfs:range shdm:ContextIndex ;  
owl:inverseOf shdm:navigation\_context\_index\_parameters .

**shdm:in\_context\_class\_class**

rdfs:domain shdm:InContextClass ;  
rdfs:label "in\_context\_class\_class"^^xsd:string ;  
rdfs:range rdfs:Class .

**shdm:context\_query**

rdfs:domain shdm:Context ;  
rdfs:label "context\_query"^^xsd:string .

**shdm:context\_parameter\_class**

rdfs:domain shdm:ContextParameter ;  
rdfs:label "context\_parameter\_class"^^xsd:string .

**shdm:context\_in\_context\_class**

rdfs:domain shdm:Context ;



```

    rdfs:label "context_in_context_class"^^xsd:string ;
    rdfs:range shdm:InContextClass ;
    owl:inverseOf shdm:in_context_class_context .

```

**shdm:operation\_parameter\_name**

```

    rdfs:domain shdm:OperationParameter ;
    rdfs:label "operation_parameter_name"^^xsd:string ;
    rdfs:subPropertyOf rdfs:label .

```

**shdm:pre\_condition\_name**

```

    rdfs:domain shdm:PreCondition ;
    rdfs:label "pre_condition_name"^^xsd:string ;
    rdfs:subPropertyOf rdfs:label .

```

**shdm:operation\_post\_conditions**

```

    rdfs:domain shdm:Operation ;
    rdfs:label "operation_post_conditions"^^xsd:string ;
    rdfs:range shdm:PostCondition ;
    owl:inverseOf shdm:post_condition_operation .

```

**shdm:in\_context\_class\_context**

```

    rdfs:label "in_context_class_context"^^xsd:string .

```

**shdm:in\_context\_class\_navigation\_attributes**

```

    rdfs:domain shdm:InContextClass ;
    rdfs:label "in_context_class_navigation_attributes"^^xsd:string ;
    rdfs:range shdm:NavigationAttribute .

```

**shdm:operation\_type**

```

    rdfs:domain shdm:Operation ;
    rdfs:label "operation_type"^^xsd:string .

```

**shdm:context\_anchor\_target\_parameters**

```

    rdfs:domain shdm:ContextAnchorNavigationAttribute ;
    rdfs:label "context_anchor_target_parameters"^^xsd:string ;
    rdfs:range shdm:NavigationAttributeParameter .

```

**shdm:index\_parameter\_name**

```

    rdfs:domain shdm:IndexParameter ;
    rdfs:label "index_parameter_name"^^xsd:string ;
    rdfs:subPropertyOf rdfs:label .

```

**shdm:navigation\_attribute\_parameter\_value\_expression**

```

    rdfs:domain shdm:NavigationAttributeParameter ;
    rdfs:label
"navigation_attribute_parameter_value_expression"^^xsd:string .

```

**shdm:index\_parameter\_class**

```

    rdfs:domain shdm:IndexParameter ;
    rdfs:label "index_parameter_class"^^xsd:string .

```

**shdm:context\_anchor\_attributes**

```

    rdfs:label "context_anchor_attributes"^^xsd:string ;
    rdfs:range shdm:ContextAnchorNavigationAttribute ;
    rdfs:subPropertyOf shdm:index_attributes .

```

**shdm:pre\_condition\_expression**

```

    rdfs:domain shdm:PreCondition ;
    rdfs:label "pre_condition_expression"^^xsd:string .

```

**shdm:index\_anchor\_target\_index**

```

    rdfs:domain shdm:IndexAnchorNavigationAttribute ;
    rdfs:label "index_anchor_target_index"^^xsd:string ;
    rdfs:range shdm:Index .

```

**shdm:context\_name**

```

rdfs:domain shdm:Context ;
rdfs:label "context_name"^^xsd:string ;
rdfs:subPropertyOf rdfs:label .

```

**shdm:operation\_parameters**

```

rdfs:domain shdm:Operation ;
rdfs:label "operation_parameters"^^xsd:string ;
rdfs:range shdm:OperationParameter ;
owl:inverseOf shdm:parameter_operation .

```

**shdm:in\_context\_class\_computed\_attributes**

```

rdfs:label "in_context_class_computed_attributes"^^xsd:string ;
rdfs:range shdm:ComputedNavigationAttribute ;
rdfs:subPropertyOf shdm:in_context_class_navigation_attributes .

```

**shdm:index\_anchor\_target\_parameters**

```

rdfs:domain shdm:IndexAnchorNavigationAttribute ;
rdfs:label "index_anchor_target_parameters"^^xsd:string ;
rdfs:range shdm:NavigationAttributeParameter .

```

**shdm:navigation\_attribute\_index\_position**

```

rdfs:domain shdm:NavigationAttribute ;
rdfs:label "navigation_attribute_index_position"^^xsd:string ;
rdfs:range xsd:integer .

```

**shdm:operation\_pre\_conditions**

```

rdfs:domain shdm:Operation ;
rdfs:label "operation_pre_conditions"^^xsd:string ;
rdfs:range shdm:PreCondition ;
owl:inverseOf shdm:pre_condition_operation .

```

**shdm:navigation\_attribute\_name**

```

rdfs:domain shdm:NavigationAttribute ;
rdfs:label "navigation_attribute_name"^^xsd:string ;
rdfs:subPropertyOf rdfs:label .

```

**shdm:index\_name**

```

rdfs:domain shdm:Index ;
rdfs:label "index_name"^^xsd:string .

```

**shdm:context\_parameters**

```

rdfs:domain shdm:Context ;
rdfs:label "context_parameters"^^xsd:string ;
rdfs:range shdm:ContextParameter .

```

**shdm:post\_condition\_name**

```

rdfs:domain shdm:PostCondition ;
rdfs:label "post_condition_name"^^xsd:string ;
rdfs:subPropertyOf rdfs:label .

```

**shdm:in\_context\_class\_index\_anchor\_attributes**

```

rdfs:label "in_context_class_index_anchor_attributes"^^xsd:string ;
rdfs:range shdm:IndexAnchorNavigationAttribute ;
rdfs:subPropertyOf shdm:in_context_class_navigation_attributes .

```

**shdm:operation\_parameter\_data\_type**

```

rdfs:domain shdm:OperationParameter ;
rdfs:label "operation_parameter_data_type"^^xsd:string .

```

**shdm:post\_condition\_expression**

```

rdfs:domain shdm:PostCondition ;
rdfs:label "post_condition_expression"^^xsd:string .

```

**shdm:index\_navigation\_attribute\_index\_parameters**

```

rdfs:domain shdm:IndexNavigationAttribute ;

```

```
    rdfs:label
"index_navigation_attribute_index_parameters"^^xsd:string ;
    rdfs:range shdm:NavigationAttributeParameter .

shdm:landmark_navigation_attribute
    rdfs:domain shdm:Landmark ;
    rdfs:label "landmark_navigation_attribute"^^xsd:string .
```