

@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix schema: <http://schema.org/> .
@prefix xml: <http://www.w3.org/XML/1998/namespace> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
@prefix foaf: <http://xmlns.com/foaf/0.1/> .
@prefix dbp: <http://dbpedia.org/property/> .
@prefix dbo: <http://dbpedia.org/ontology/> .
@prefix dbr: <http://dbpedia.org/resource/> .
@prefix mgns: <http://inf558.org/games#> .

Main Classes

#####

Game class

mgns:Game a schema:Class ;
 rdfs:subClassOf schema:Game ;
 schema:name schema:Text ;
 schema:description schema:Text ;
 schema:url schema:URL ;
 schema:datePublished schema:date ;
 mgns:supportedPlatform mgns:Platform ;
 mgns:hasMSD mgns:MSD ;
 mgns:developedBy mgns:Enterprise ;
 mgns:publishedBy mgns:Enterprise ;
 mgns:hasGameMode mgns:GameMode ;
 mgns:hasGenre mgns:Genre ;
 mgns:hasTheme mgns:Theme ;
 mgns:ratingValue xsd:integer ;
 mgns:ratingCount xsd:integer ;
 mgns:bestRating xsd:integer .
 mgns:soldBy mgns:Seller ;
 mgns:price schema:Text ;
 mgns:oldPrice schema:Text ;
 mgns:discount schema:Text ;
 mgns:sellerFeedback schema:Text ;
 mgns:sellerUrl schema:Text .

Enterprise class

mgns:Enterprise a schema:Class ;
 rdfs:subClassOf schema:Organization ;
 schema:name schema:Text ;
 mgns:ratingValue xsd:integer ;
 mgns:ratingCount xsd:integer ;
 mgns:bestRating xsd:integer .
 schema:logo schema:URL ;
 schema:url schema:URL ;
 schema:foundingDate xsd:date ;

schema:foundingLocation schema:Place .

Seller class

```
mgns:Seller a schema:Class ;  
    rdfs:subClassof schema:seller ;  
    schema:name schema:Text ;  
    mgns:ratingValue xsd:integer ;  
    mgns:bestRating xsd:integer .
```

Platform class

```
mgns:Platform a schema:Class ;  
    mgns:platformName schema:Text ;  
    mgns:platformType schema:Text ;  
    mgns:operatingSystem schema:Text ;  
    mgns:memory schema:Text ;  
    mgns:cpu schema:Text ;  
    mgns:storage schema:Text ;  
    mgns:supportedResolution schema:Text .
```

Minimum Supporting Device class

```
mgns:MSD a schema:Class ;  
    mgns:processor mgns:Processor ;  
    mgns:graphics mgns:Graphics ;  
    mgns:memory schema:Text ;  
    mgns:diskSpace schema:Text ;
```

Graphics class

```
mgns:Graphics a rdfs:Class ;  
    schema:name schema:Text ;  
    mgns:gpuChip schema:Text ;  
    schema:datePublished schema:date ;  
    mgns:gpuMemory schema:Text ;  
    mgns:gpuClockSpeed schema:Text ;  
    mgns:memoryClockSpeed schema:Text ;  
    mgns:shaders xsd:integer ;  
    mgns:TMUs xsd:integer ;  
    mgns:ROPs xsd:integer .
```

Processor class

```
mgns:Processor a rdfs:Class ;
    schema:name schema:Text ;
    mgns:numCores schema:Text ;
    mgns:processorClockSpeed schema:Text ;
    mgns:l3Cache schema:Text ;
    mgns:socket schema:Text ;
    mgns:process schema:Text .
```

Additional Classes

#####

```
mgns:GameMode a rdfs:Class ;
    rdfs:label "Game Mode"@en .
```

```
mgns:Genre a rdfs:Class ;
    rdfs:label "Genre"@en .
```

```
mgns:Theme a rdfs:Class ;
    rdfs:label "Theme"@en .
```

Properties

#####

Game, Enterprise, Seller Class Properties

```
mgns:supportedPlatform a rdf:Property
    rdfs:label "Supported Platform"@en ;
    rdfs:domain mgns:Game ;
    rdfs:range mgns:Platform .
```

```
mgns:hasMSD a rdf:Property
    rdfs:label "Minimum Supporting Device"@en ;
    rdfs:domain mgns:Game ;
    rdfs:range mgns:MSD .
```

```
mgns:developedBy a rdf:Property
    rdfs:label "Developed By"@en ;
    rdfs:domain mgns:Game ;
    rdfs:range mgns:Enterprise .
```

```

mgns:publishedBy a rdf:Property
    rdfs:label "Published By"@en      ;
    rdfs:domain mgns:Game             ;
    rdfs:range mgns:Enterprise        .

mgns:hasGameMode a rdf:Property
    rdfs:label "Has Game"@en  ;
    rdfs:domain mgns:Game    ;
    rdfs:range mgns:GameMode .

mgns:hasGenre a rdf:Property
    rdfs:label "Has Genre"@en  ;
    rdfs:domain mgns:Game     ;
    rdfs:range mgns:Genre     .

mgns:hasTheme a rdf:Property
    rdfs:label "Has Theme"@en  ;
    rdfs:domain mgns:Game     ;
    rdfs:range mgns:Theme     .

mgns:ratingValue a rdf:Property
    rdfs:label "Rating Value"@en      ;
    rdfs:domain mgns:Game, mgns:Enterprise, mgns:Seller ;
    rdfs:range xsd:integer            .

mgns:ratingCount a rdf:Property
    rdfs:label "Rating Count"@en      ;
    rdfs:domain mgns:Game, mgns:Enterprise ;
    rdfs:range xsd:integer            .

mgns:bestRating a rdf:Property
    rdfs:label "Best Possible Rating Value"@en      ;
    rdfs:domain mgns:Game, mgns:Enterprise, mgns:Seller ;
    rdfs:range xsd:integer            .

mgns:soldBy a rdf:Property
    rdfs:label "Sold by"@en      ;
    rdfs:domain mgns:Game       ;
    rdfs:range mgns:Seller      .

mgns:price a rdf:Property
    rdfs:label "Game Price"@en  ;
    rdfs:domain mgns:Game       ;
    rdfs:range schema:Text      .

mgns:oldPrice a rdf:Property
    rdfs:label "Price"@en      ;
    rdfs:domain mgns:Game      ;

```

rdfs:range schema:Text .

mgns:discount a rdf:Property
rdfs:label "Discount"@en ;
rdfs:domain mgns:Game ;
rdfs:range schema:Text .

mgns:sellerFeedback a rdf:Property
rdfs:label "Feedback for Seller"@en ;
rdfs:domain mgns:Game ;
rdfs:range schema:Text .

mgns:sellerUrl a rdf:Property
rdfs:label "Seller website"@en ;
rdfs:domain mgns:Game ;
rdfs:range schema:Text .

Platform Class Properties

mgns:platformName a rdf:Property
rdfs:label "Platform Name"@en ;
rdfs:domain mgns:Platform ;
rdfs:range schema:Text .

mgns:platformType a rdf:Property
rdfs:label "Platform Type"@en ;
rdfs:domain mgns:Platform ;
rdfs:range schema:Text .

mgns:operatingSystem a rdf:Property
rdfs:label "Operating System"@en ;
rdfs:domain mgns:Platform ;
rdfs:range schema:Text .

mgns:memory a rdf:Property
rdfs:label "Memory"@en ;
rdfs:domain mgns:Platform ;
rdfs:range schema:Text .

mgns:cpu a rdf:Property
rdfs:label "CPU"@en ;
rdfs:domain mgns:Platform ;
rdfs:range schema:Text .

mgns:storage a rdf:Property
rdfs:label "Storage"@en ;

rdfs:domain mgns:Platform ;
rdfs:range schema:Text .

mgns:supportedResolution a rdf:Property
rdfs:label "Supported Resolution"@en ;
rdfs:domain mgns:Platform ;
rdfs:range schema:Text .

MSD Class Properties

mgns:processor a rdf:Property
rdfs:label "Processor"@en ;
rdfs:domain mgns:MSD ;
rdfs:range mgns:Processor .

mgns:graphics a rdf:Property
rdfs:label "Graphics Card"@en ;
rdfs:domain mgns:MSD ;
rdfs:range mgns:Graphics .

mgns:memory a rdf:Property
rdfs:label "Memory - RAM"@en ;
rdfs:domain mgns:MSD ;
rdfs:range schema:Text .

mgns:diskSpace a rdf:Property
rdfs:label "Disk Space"@en ;
rdfs:domain mgns:MSD ;
rdfs:range schema:Text .

Graphics class Properties

mgns:gpuChip a rdf:Property
rdfs:label "GPU Chip"@en ;
rdfs:domain mgns:Graphics ;
rdfs:range schema:Text .

mgns:gpuMemory a rdf:Property
rdfs:label "GPU Memory"@en ;
rdfs:domain mgns:Graphics ;
rdfs:range schema:Text .

mgns:gpuClockSpeed a rdf:Property
rdfs:label "GPU Clock Speed"@en ;
rdfs:domain mgns:Graphics ;
rdfs:range schema:Text .

```

mgns:memoryClockSpeed a rdf:Property
    rdfs:label "Memory Clock Speed"@en      ;
    rdfs:domain mgns:Graphics                ;
    rdfs:range schema:Text                   .

mgns:shaders a rdf:Property
    rdfs:label "Shaders"@en                  ;
    rdfs:domain mgns:Graphics                ;
    rdfs:range xsd:integer                   .

mgns:TMUs a rdf:Property
    rdfs:label "TMUs"@en                     ;
    rdfs:domain mgns:Graphics                ;
    rdfs:range xsd:integer                   .

mgns:ROPs a rdf:Property
    rdfs:label "ROPs"@en                     ;
    rdfs:domain mgns:Graphics                ;
    rdfs:range xsd:integer                   .

## Processor class Properties ##

mgns:numCores a rdf:Property
    rdfs:label "Number of Cores"@en          ;
    rdfs:domain mgns:Processor               ;
    rdfs:range schema:Text                   .

mgns:processorClockSpeed a rdf:Property
    rdfs:label "Clock Speed of the Processor"@en      ;
    rdfs:domain mgns:Processor               ;
    rdfs:range schema:Text                   .

mgns:l3Cache a rdf:Property
    rdfs:label "L3 cache size"@en            ;
    rdfs:domain mgns:Processor               ;
    rdfs:range schema:Text                   .

mgns:socket a rdf:Property
    rdfs:label "Socket Type"@en              ;
    rdfs:domain mgns:Processor               ;
    rdfs:range schema:Text                   .

mgns:process a rdf:Property
    rdfs:label "Process"@en                  ;
    rdfs:domain mgns:Processor               ;
    rdfs:range schema:Text                   .

```