```
@prefix rdf: <a href="mailto:rdf">http://www.w3.org/1999/02/22-rdf-syntax-ns#></a> .
@prefix rdfs: <a href="http://www.w3.org/2000/01/rdf-schema">http://www.w3.org/2000/01/rdf-schema</a>> .
@prefix schema: <http://schema.org/> .
@prefix xml: <a href="mailto://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>.
@prefix xsd: <a href="http://www.w3.org/2001/XMLSchema#">http://www.w3.org/2001/XMLSchema#>...
@prefix foaf: <a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/">.
@prefix mgns: <a href="http://inf558.org/games#">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:decimal;
       mgns:ratingCount xsd:integer;
       mgns:bestRating xsd:decimal.
       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;
      mgns:ROPs xsd:integer;
      mgns:TMUs xsd:integer;
      mgns:bus schema:Text;
      mgns:gpuChip schema:Text;
      mgns:gpuClockSpeed_MHz xsd:integer;
      mgns:gpuMemoryBits xsd:integer;
      mgns:gpuMemorySize_MB xsd:integer;
      mgns:gpuMemoryType schema:Text;
      mgns:memoryClockSpeed_MHz xsd:integer;
      mgns:shader_1 xsd:integer;
      mgns:shader_2 xsd:integer;
      schema:datePublished schema:date;
      schema:name schema:Text:
      schema:url schema:URL.
```

```
## Processor class ##
mgns:Processor a rdfs:Class;
      mgns:higherClockSpeedghz xsd:decimal;
      mgns:I3CacheMB xsd:integer;
      mgns:lowerClockSpeedghz xsd:decimal;
      mgns:numCore1 xsd:integer;
      mgns:numCore2 xsd:integer;
      mgns:process xsd:integer;
      mgns:socket schema:Text;
      schema:name schema:Text;
      mgns:hasCPUMark xsd.decimal .
### 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_MB a rdf:Property
      rdfs:label "Memory - RAM"@en
      rdfs:domain mgns:MSD
      rdfs:range schema:Text
mgns:diskSpace MB 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:gpuClockSpeed_MHz a rdf:Property
      rdfs:label "GPU Clock Speed"@en ;
      rdfs:domain mgns:Graphics
      rdfs:range xsd:integer
mgns:memoryClockSpeed_MHz a rdf:Property
      rdfs:label "Memory Clock Speed"@en
      rdfs:domain mgns:Graphics
```

rdfs:range schema:Text

```
mgns:shader_1 a rdf:Property
       rdfs:label "Shader 1"@en
       rdfs:domain mgns:Graphics
       rdfs:range xsd:integer
mgns:shader 2 a rdf:Property
       rdfs:label "Shader 2"@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
mgns:bus a rdf:Property
       rdfs:label "Bus"@en
       rdfs:domain mgns:Graphics
       rdfs:range schema:Text
mgns:gpuMemoryBits a rdf:Property
       rdfs:label "GPU Memory in bits"@en;
       rdfs:domain mgns:Graphics
       rdfs:range xsd:integer
mgns:gpuMemorySize_MB a rdf:Property
       rdfs:label "GPU Memory in MB"@en;
       rdfs:domain mgns:Graphics
       rdfs:range xsd:integer
mgns:gpuMemoryType a rdf:Property
       rdfs:label "GPU Memory Type"
       rdfs:domain mgns:Graphics
       rdfs:range schema:Text
## Processor class Properties ##
mgns:higherClockSpeedghz a rdf:Property
       rdfs:label "Higher Clock Speed"@en;
       rdfs:domain mgns:Processor
       rdfs:range xsd:decimal
```

```
mgns:I3CacheMB a rdf:Property
      rdfs:label "L3 Cache"@en
      rdfs:domain mgns:Processor
      rdfs:range xsd:integer
mgns:lowerClockSpeedghz a rdf:Property
      rdfs:label "Lower Clock Speed"@en ;
      rdfs:domain mgns:Processor
      rdfs:range xsd:decimal
mgns:numCore1 a rdf:Property
      rdfs:label "Number of Cores 1"@en
      rdfs:domain mgns:Processor
      rdfs:range xsd:integer
mgns:numCore2 a rdf:Property
      rdfs:label "Number of Cores 2"@en
      rdfs:domain mgns:Processor
      rdfs:range xsd:integer
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
```