Formal Inspection Checklist

For Environment Model Building Tool (EMBT)

Version 1.0

Submitted in partial fulfillment of the requirements of the degree of MSE

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1. **Introduction**
   The purpose of this document is to provide a checklist for the technical inspectors of the Environment Model Building Tool. The checklist will be used to document the items which are to be inspected. The goal of the technical inspection is to aid the developer in checking for correctness and consistency with the architectural design and formal specification documents.

2. **Items to be Inspected**
   - UML Diagrams
     - Class diagrams
     - Sequence diagrams
     - Class descriptions
   - Formal Specification
     - USE model (sections 2.2-2.5 of the Architecture Design were formally specified)

3. **Formal Technical Inspectors**
   - Cem Oguzhan
   - Kevin Sung

4. **Formal Technical Inspection Checklist**

<table>
<thead>
<tr>
<th>Inspection Item</th>
<th>Pass/Fail/Partial</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The symbols used in the class diagrams conform to the UML standards</td>
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<tr>
<td>2. The symbols used in the sequence diagrams conform to the UML standards</td>
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<td>3. The class diagrams have a corresponding description provide in the architectural design document</td>
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<td>4. The descriptions of all class diagrams are clear and makes sense</td>
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<td>5. The messages passed between objects in the sequence diagrams can be found in the corresponding class diagram as public methods</td>
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<td>6. All classes in the Environment Model Builder (sections 2.2-2.5 of Architecture Design) are found in the USE model (section 5 of the Architecture Design)</td>
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<td>7. The role names and multiplicities in the USE model match with the role names and multiplicities of the UML diagrams for the Environment Model Builder (sections 2.2-2.5 of Architecture Design)</td>
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<td>8. The attributes in the USE model match with the attributes of the corresponding class diagrams (sections 2.2-2.5 of the Architecture Design)</td>
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</table>
9. The operations in the USE model match with the corresponding methods in the class diagrams (sections 2.2-2.5 of the Architecture Design)