Okay so here’s my idea for the new XML file structure.

Currently this is our structure for the xml file:

<?xml version="1.0"?>  
<data rule="rule">  
 <name>Percolation</name>  
 <title>Percolation\_simulation</title>  
 <author>Team05</author>  
 <threshold>0.0</threshold>  
 <row>6</row>  
 <col>6</col>  
 <initial>110011110011110011110011110011112211</initial>  
</data>

Under the new structure, it would look like this:

<?xml version="1.0"?>  
<data rule="rule">  
 <name>Percolation</name>  
 <title>Percolation\_simulation</title>  
 <author>Team05</author>  
 <threshold>0.0</threshold>  
 <shape>4</shape>  
 <row>3</row>  
 <col>3</col>  
 <state>1</state>  
 <neighbors>13</neighbors>  
 <state>0</state>  
 <neighbors>034</neighbors>  
 <state>1</state>  
 <neighbors>15</neighbors>  
 <state>0</state>  
 <neighbors>046</neighbors>  
 <state>0</state>  
 <neighbors>1357</neighbors>  
 <state>0</state>  
 <neighbors>348</neighbors>  
 <state>0</state>  
 <neighbors>37</neighbors>  
 <state>0</state>  
 <neighbors>468</neighbors>  
 <state>0</state>  
 <neighbors>57</neighbors>  
</data>

To represent the table below:

|  |  |  |
| --- | --- | --- |
| Position: 0  State: 1  Neighbors: 13 | Position: 1  State: 0  Neighbors: 034 | Position: 3  State: 1  Neighbors: 15 |
| Position: 3  State: 0  Neighbors: 046 | Position: 4  State: 0  Neighbors: 1357 | Position: 5  State: 0  Neighbors: 348 |
| Position: 6  State: 0  Neighbors: 37 | Position: 7  State: 0  Neighbors: 468 | Position: 8  State: 0  Neighbors: 57 |