**Wildlife Refuge Simulation**

**Software Requirement Specification**

**Glossary**

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| --- | --- |
| **WRS** | Wildlife Refuge Simulation |
| **SPR** | SmartSparrow |

### Functional

**REQ-WRS-F0001**

The WRS solution shall capture user’s responses to questions.

**REQ-WRS-F0002**

The WRS solution shall capture user’s interactions with simulation.

**REQ-WRS-F0003**

The WRS solution shall send user’s responses to the SPR platform.

**REQ-WRS-F0004**

The WRS solution shall send user’s interactions with simulations to the SPR platform.

**REQ-WRS-F0005**

The WRS solution shall provide at least one prey object class.

**REQ-WRS-F0006**

The WRS solution shall provide at least one predator object class.

**REQ-WRS-F0007**

The WRS solution shall provide at least one tree object class.

**REQ-WRS-F0008**

The WRS solution shall provide at least one bush object class.

**REQ-WRS-F0009**

The WRS solution shall provide at least one grass object class.

**REQ-WRS-F0010**

The WRS solution shall provide referenced appropriate attributes for all object classes used for simulation.

**REQ-WRS-F0011**

The WRS solution shall provide appropriate functions for each object class interacting in the simulation.

### Non-Functional

**REQ-WRS-NF0001**

The WRS solution shall integrate SPR controls in the welcome page.

**REQ-WRS-NF0002**

The WRS solution shall integrate SPR controls in the simulation page.

### UI (User Interface)

**REQ-WRS-UI0001**

The WRS solution shall provide a page welcoming the user to the simulation.

**REQ-WRS-UI0002**

The WRS solution shall provide a page for the simulation interaction.

**REQ-WRS-UI0003**

The WRS solution shall provide a control panel for the simulation on the simulation page.

**REQ-WRS-UI0004**

The WRS solution shall provide a control panel for the elements of the simulation on the simulation page.

**REQ-WRS-UI0005**

The WRS solution shall provide the following controls in the simulation control panel: play, pause, speed up time, slow down time.

**REQ-WRS-UI0006**

The WRS solution shall provide the following controls in the elements control panel: add prey, add predator, add tree, add bush, add grass, remove prey, remove predator, remove tree, remove bush, remove grass.

**REQ-WRS-UI0007**

The WRS solution shall provide a drop down selector for the selection of the prey on the simulation page.

**REQ-WRS-UI0008**

The WRS solution shall provide a drop down selector for the selection of the predator on the simulation page.

**REQ-WRS-UI0009**

The WRS solution shall provide a drop down selector for the selection of the tree on the simulation page.

**REQ-WRS-UI0010**

The WRS solution shall provide a drop down selector for the selection of the bush on the simulation page.

**REQ-WRS-UI0011**

The WRS solution shall provide a drop down selector for the selection of the grass on the simulation page.

### UX (User Experience)

**REQ-WRS-UX0001**

### Performance

**REQ-WRS-P0001**