## **Implementation Details**

## 1. Coding Standards

The code for this project will follow as close as possible to the official Godot style guide <a href="https://docs.godotengine.org/en/stable/tutorials/scripting/gdscript\_styleguide.htm">https://docs.godotengine.org/en/stable/tutorials/scripting/gdscript\_styleguide.htm</a>
<a href="https://gdscript\_styleguide.htm">https://gdscript\_styleguide.htm</a>
<a href="https://gdscript\_styleguide.htm">https://gdscript\_styleguide.htm</a>
<a href="https://github.com/structure">https://github.com/structure</a>, and static typing of all variables and functions will be enforced using the GD Lint toolkit through a github action for any push to the repository. <a href="https://github.com/Scony/godot-gdscript-toolkit">https://github.com/Scony/godot-gdscript-toolkit</a>

## 2. Layer Bitmasking

Layer	Collision Application
1	Map and world boundaries (e.g. walls, floors, etc)
2	Player
3	Physical plane (e.g. player "Living" state, item pickups, objects in rooms, etc)
4	Spirit plane (e.g. ghosts, player "Dead" state, etc)
5	Items
6	Possessables
7	Object Blocker (used with doors to stop movable objects from passing)

## 3. Hit Detection

Hurtboxes are only responsible for existing on the collision layer of "damage" they are responsible for. It is the damage receiver's responsibility to process the contact between itself and any hurtbox.