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### **Game Documentation: StaySafe**
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#### \*\*Game Overview\*\*

- \*\*Game Name:\*\* StaySafe
- \*\*Theme/Concept:\*\* Inspired by the idea of tackling viral diseases.
- \*\*Objective:\*\* The player must tackle randomly appearing viruses using a syringe controlled by the character, while surviving as long as possible to achieve the highest score.

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#### \*\*Game Features\*\*

- 1. \*\*Player Character:\*\*
  - A man sitting on a syringe, controlled by the player.
- 2. \*\*Enemies:\*\*
  - Viruses that appear randomly in the scene.
- 3. \*\*Score System:\*\*
  - The score increases with every second the player survives.
- 4. \*\*Environment:\*\*
  - A clean, minimal 2D interface resembling a medical or health-themed setting.

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#### \*\*Gameplay Mechanics\*\*

- 1. \*\*Player Movement:\*\*
  - The player moves the syringe to avoid collisions with the viruses.
  - Movement is smooth and responsive, controlled by arrow keys or touch input.
- 2. \*\*Virus Behavior:\*\*
  - Viruses spawn randomly in different locations and move towards the player at varying speeds.
  - Difficulty increases over time as more viruses appear.
- 3. \*\*Scoring:\*\*
  - The score counter increments every second while the player survives.

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## #### \*\*Development Details\*\*

- \*\*Engine Used:\*\* Unity 2D
- \*\*Programming Language:\*\* C#
- \*\*Assets:\*\*
  - Free sprites for the syringe, man, and viruses from the Unity Asset Store.
  - Background: Light, simple textures to enhance the theme.
- \*\*Audio:\*\*
  - Background music and sound effects for virus appearances and collisions.

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## #### \*\*Challenges and Solutions\*\*

- \*\*Challenge:\*\* Random virus spawns making the game unfair.
  - \*\*Solution:\*\* Limited spawn areas to balance gameplay difficulty.
- \*\*Challenge:\*\* Controlling movement for better gameplay experience.
  - \*\*Solution:\*\* Adjusted rigid body physics for smoother player movement.

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## #### \*\*Future Improvements\*\*

- 1. Add power-ups like shields or temporary virus immunity.
- 2. Include a high-score leaderboard.
- 3. Introduce levels or waves with increasing difficulty.
- 4. Implement touch-screen support for mobile devices.

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## #### \*\*Conclusion\*\*

StaySafe provides a fun yet thought-provoking gameplay experience while raising awareness about staying vigilant during viral outbreaks. It's simple to play, engaging, and challenges players to survive for as long as possible.