**Game Design Document**

**Project name**: WHO Will Survive?

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**Introduction**

“WHO Will Survive?” is a 2D game inspired by the horrible COVID-19 pandemic in which scientists managed to find a vaccine that protects people from being infected by this virus, but it needs time to produce enough amount of it. Sadly, the town's main hospital has patients that diagnosed with COVID-19. Although the doctors and nurses were taking all precautions, some viruses managed to escape from the hospital infecting people all over the city. You should stop the corona-virus from spreading in your hometown to save as much time as you can for the vaccine to be produced.

**Functional Specifications**

“WHO Will Survive?” is a click and kill game in which your main objective is to kill the viruses that managed to escape from the main hospital, located at the center of the city, due to large number of COVID-19 patients.

Your main objective is to prevent the pandemic from spreading in your hometown to save time and resources for the vaccine to be ready.

**Game play elements:**

**Infected cases bar:**

This bar reflects the number of patients that diagnosed with COVID-19 and should be isolated in the hospital for the needed medical care.

Whenever a virus escapes from the hospital, it increases the number of infected people as it travels. When the number of escaped and travelling viruses increases, the infected people (cases) number increases exponentially.

When a virus manages to escape the whole town, it causes a spike increase in the infected cases number.

You should keep the number of currently escaping viruses as low as you can. Since the hospital’s resources are limited, you will lose when this bar is full.

**Recovered cases bar:**

This bar reflects the recovered cases from COVID-19. Killing escaped viruses, increases the recovered cases number, decreases infected cases number, and saves time & resources for the scientists to produce the vaccine.

Whenever a virus killed, the sanitization bar value increases. But if the virus manages to escape the bar’s value decreases.

When this bar is full, Player can use “Sanitization Ultimate Power” to erase all of currently escaping viruses.

**Vaccine timer:**

This timer indicates the time needed for the vaccine to be produced. When this timer expires you win.

Whenever a virus escapes the whole town, this means that resources are wasted and therefore the timer value increases.

**Timer power up:**

Timer powerups are spawning randomly from the hospital which indicates that the doctors are doing great job.

Whenever a timer powerup picked up, the timer value decreases.

**Controls**

Player has 2 main controls:

* **Left mouse button (click):** Kill virus
* **Right mouse button** **(click):** Use sanitization to erase all viruses.

**Story**

Once upon a time in "Wuhan", a Chinese city, some guy was too hungry after a very tiring day guess what did he decide to eat? . . .YES, a fried bat at lunch . . . YIKES!

Unfortunately, this weird meal created a dangerous virus called COVID-19 or Coronavirus which has been declared as a pandemic by "WHO" a few months later. Sadly, the town's main hospital has patients that diagnosed with COVID-19. Although the doctors were taking all precautions, some viruses managed to escape from the hospital infecting people all over the city.

Now your little town somehow got the infection, but hey . . . Cheer up! the scientists have found a vaccine that can protect patients, but they need some time to produce enough quantity for all people. You should stop the spread of COVID-19 in it to save as much time as you can for the vaccine to be ready.

In such rough times, heroes were supposed to step up and fight. But now they should only stay at home. Do you have what it takes to be one of them? . . .

We will see!