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## **Sprint Review Two**

In our last sprint review, we covered the basis of what our topic is and how we would go about our research. The topic was originally how many CPU cores would be needed for someone either building or buying a computer. Initially we were going to find out how many cores would be needed for three different audiences. The first being gamers who most times do not need many cores. The second being people who use their computers for productivity. The third were the people who did both, gaming, streaming and productivity on top of that. But due to our initial goals being received as ambitious we took a step back and narrowed it down to just gaming. That being said, we started researching on how many cores a PC gamer would need.

Starting off, we wanted to go to the Steam hardware survey and see what the most common pieces of hardware gamers used. After taking an initial look at the survey, we noticed that 4 cores were the most common amount people used on Steam. After looking into it a little more it seemed that 6 core cpu's were making a rise only to be overtaken by a rise of 8 cores. The results here show that 4 cores is currently the most dominant but with a little time 8 cores will replace them.

Next up, we went through system requirements on Steam. The games that we deemed worthy of using as benchmarks were filtered by most popular games on Steam. Once we sifted through system requirements we noticed a trend of the minimum requirements often being 4 cores and the recommended being very often 6-8 cores. After that research, we have come to the conclusion that the people who want to try out PC gaming should start out on an upgradeable motherboard and start with 4 cores to save money and if they end up liking PC gaming, they can upgrade to an 8 core later on to keep up with the trend of games going to 8 cores.

Finally, we looked through competitive games which there are a few that are not on Steam. Take League of Legends for example. They have 115 Million users that play it monthly. That is something that we could not ignore and there are many games like League in that aspect we looked at. Starting with League of Legends, the system requirements are so low that anyone with a "potato" can run it. That being said, any processor someone can buy brand new will work. Valorant is another popular competitive game but it is somewhat similar to league. Valorant can run off of a 4 core CPU very easily but the competitive requirement is a 6 core. Many other competitive games recommend 6 cores but can be played comfortably on a 4 core.

After going through our research, we have found three categories for gamers to consider when buying a PC. If they want to start off playing the most popular games, it is recommended that they buy a four core CPU. Or gamers who want to play the most

popular games and know they will stick with the hobby can go ahead buy a 6 core cpu or an 8 core if they want to splurge and make their system futureproof. Then there is the competitive aspect and that target audience is best off buying a 6 core.