***ASSIGNMENT 1***

**Question: What are 5 emerging things in web development?**

***Augmented Reality (AR) and Virtual Reality (VR)***

AR and VR have come a long way from the science fiction concepts of the past.  With the popularity of Google Earth and Pokemon Go, 2017 showed remarkable growth and awareness of AR and VR technologies.

These technologies are transforming industries in their own ways. From 2017–2018, both AR and VR crossed the limits of mobile apps. It is estimated that their collective market size to be around [$215 billion by 2021(link is external)](https://www.businessinsider.com/ar-vr-2017-8).

The upcoming years are fully packed with many surprises waiting to show up with the increase in the current quality, efficiency, and productivity of AR/VR apps

***2 Responsive Animation Idle Load (RAIL)***

RAIL was initially from the year 2015 but has thrived again in 2019. The concept involves faster load times and excellent website performance.

Here is overview of each area’s performance goal:

* Response: There is a quick response with every input
* Animation: Visual animation includes scrolling and dragging. The goal is to complete every frame within 16 milliseconds.
* Load: The paint gets under 1 second. Once the paint is accepted, the goal is to keep the app responsive to the user.

## *****Virtual reality*****

* Companies including Google and Mozilla have begun work on APIs to help VR technology transition to the web. As standards develop, we expect more and more applications to be developed using VR technologies.
* **In the coming year, we’ll see virtual reality in various applications, ranging from news coverage, to virtual real estate tours.**

## *****4 Web design evolution*****

If you’re interested in design, here are a few trends to watch out for next year:

1. Movement based interfaces will probably become a staple on the web. Perhaps when combined with libraries such as tracking.js, interfaces that respond to hand movements could be closer than we think.
2. Bolder and larger [typography](https://careerfoundry.com/en/blog/ui-design/beginners-guide-to-typography/) is likely to become more prevalent.
3. People often want engaging and compelling ways to get their information quickly. This will likely elicit a rise in the use of videos and other storytelling visuals.

The web is an interesting place, where nothing stands still for too long

***5. Single Page Application***

Entirely based on JavaScript, Single page applications are web apps that perform well with all devices. They not only improve site performance, but also eliminate the need for reloading a page by loading all the content with JavaScript.

Most companies use single page applications because of the additional waiting time associated with loading multiple pages. It also makes building responsive websites easier.

Examples of SPAs are Gmail, Facebook, and GitHub. The technologies used in SPAs include React and Angular frameworks, which make it ideal for hybrid apps.