****

**QUESTION**

**Emerging latest trends in wed development (Tools, Name, and Technologies)**

|  |  |
| --- | --- |
| **1.** | **AI or Bots** |
| **2.** | **JavaScript** |
| **3.** | **Progressive Web App** |
| **4.** | **Single Page Application** |
| **5.** | **Mobile-Friendly Website** |
| **6.** | **Motion UI** |
| **7.** | **Block chain Technology** |
| **8.** | **Cybersecurity** |

1. **AI or Bots**

[**Artificial intelligence**](https://en.wikipedia.org/wiki/A.I._Artificial_Intelligence) (AI) is the intelligence displayed by machines to mimic human intelligence and perform cognitive functions like the ability to learn, collect data, analyze information, understand emotions or solve challenging problems. The need for AI-enabled communication, multi-task automation, and analytics solutions will become more prevalent this year.

As early as now we can see how AI’s chatbots, virtual assistants (like Amazon’s [**Alexa**](https://en.wikipedia.org/wiki/Amazon_Alexa), Apple’s [**Siri**](https://en.wikipedia.org/wiki/Siri) and Microsoft’s **[Cortana](https://en.wikipedia.org/wiki/Cortana" \t "_blank)**) and voice bots helped businesses engagement and transformed social interaction. Their evolutions empowered the omnichannel for digital customer experience and guaranteed consistency across voice, chat, messaging and websites.

### 2. JavaScript

###### JavaScript is still the most popular language for the last six years, and it continues to develop according to [Stack Overflow 2018 report](https://insights.stackoverflow.com/survey/2018/#technology). The evolution of its frameworks, libraries, and designs for the past years proved that it has lots to offer in the market. No wonder it’s developer’s top pick language for it provides a whole new experience of flexibility, challenge, and power.

###### In Coding Dojo bootcamp, we teach not only [Javascript](https://www.codingdojo.com/blog/what-is-javascript" \t "_blank), but we offer five of the [Most In-Demand Programming Languages of 2019](https://www.codingdojo.com/web-development-courses) ranked in [TIOBE Index](https://www.tiobe.com/tiobe-index/)****.**** Our learning platform equips developers with the most sought-after tech skills and helps them stand out on the job market.

### 3. Progressive Web App

###### Progressive Web Apps (or PWAs) are still part of 2019 hottest web trends. These modern web applications load like regular web pages or websites but have a high level of functionality. They can load instantly, regardless of the network state and browser choice because they’re built with progressive enhancement, a strategy for web design that emphasizes core webpage content first.

###### [PWA](https://en.wikipedia.org/wiki/Progressive_web_applications) ensures an instant, independence and reliable experience of users without cache issues. It’s safe because it served via HTTP to avert content snooping and data tampering.

### 4. Single Page Application

###### Single-page application (SPA) is a web application based on Javascript which works well among user devices. It boosts performance, minimize interruptions due to page reloading and decreases web development time by responding to navigation actions without creating a request to fetch new HTML from the server side.

### 5. Mobile-Friendly Website

###### Mobile-friendly websites are websites that work well on smartphones. They use touch controls and can fit on small screens for quick navigation. Furthermore, they load fast due to their fantastic features which reduce data entry.

###### In 2016, [Google’s A-Team](https://developers.google.com/search/mobile-sites/) created its own first mobile-optimized search index. It’s one of Google’s best approaches to give their smartphone visitors the same quality of user experience when delivering search results regardless of the device they’re using.

### 6. Motion UI

###### With a great demand for interactive web design, ****Motion UI**** will still be trending this year for its dynamic graphics, amazing animation and real impacts on usability. It showcases the developer’s ability to tell a visual story while communicating to the viewer using a variety of tools and techniques.

###### Motion UI is a sustainable library that allows the seamless transition effects on the user interface. It’s one of the most rapidly gaining popularity libraries because it enables developers to animate content as easy as possible even without having a solid foundation in JavaScript or [jQuery](https://jquery.com/) library.

### 7. Blockchain Technology

###### Thanks to [Satoshi Nakamoto](https://en.wikipedia.org/wiki/Satoshi_Nakamoto), the unknown person who [claimed to be a Japanese] created and developed the [bitcoin](https://en.wikipedia.org/wiki/Bitcoin" \t "_blank), we’ve entered the Bitcoin Era. And from it, the Blockchain Technology emerges which heyday is still evident nowadays.

###### [Blockchain](https://www.codingdojo.com/blog/creating-verifiable-digital-certificates-coding-dojo-students-using-blockchain) is an open and distributed ledger, notorious for its secured design, decentralized consensus, and modified-resistance blocks. It’s designed to lower the financial business cost, reduce the frequency of transaction settlement and improve cash flow backed up by transparent records/data.

### 8. Cybersecurity

###### Ever since data breaches, cyber threats, website hacking, and data theft are the terrible menace that lurks on the darkest shadows of technological advancement and scientific progression, and 2019 will be no exemption. Thus, cybersecurity won’t disappear soon.

###### Cybersecurity or information technology security (IT security) is the computer protection systems against theft, service disruption or misdirection as well as on hardware, software or electronic data damages

**REFERENCE:**

<https://www.codingdojo.com/blog/web-development-trends-of-2019>