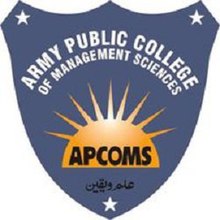
Web Design and Development



***LAB REPORT # 02***

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***Question:***

*Note down the emerging web technologies in upcoming years.*

***Answer:*** *Technology, the application of scientific knowledge to the practical aims of human life or, as it is sometimes phrased, to the change and manipulation of the human environment.*

*When it comes to technology, everything is so variable and unpredictable.. People are always excited to know the most in-demand languages/frameworks as well the latest updates on the web design and software applications. The web development industry is doing a great job coming up with new frameworks, design trends, and mobile web app developments to satisfy the incessant demands and expectations of mankind.*

*Following are some of the emerging technologies in web.*

*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. Automation testing*

### *AI or Bots is a computer program designed to solve difficult problems which humans (and animals) routinely solve. The goal of AI is to develop programs which can solve such problems independently, although the patterns for solving these problems differ significantly from the way they are solved by humans. Bots, chatbots, and AI each have different capabilities and applications. It’s essential to understand the benefits they bring to customer service (and their limitations) if retailers are to apply the technology correctly on the other bots are simple automated tools, used to make tasks easier Bots without natural. The need for AI-enabled communication, multi-task automation, and analytics solutions will become more prevalent this year. The following technologies that can be used to build bots for your website include Face book Bot Engine, Microsoft Bot Framework, and Dialog flow*

***2. JavaScript*** *We can say that in the upcoming years, JavaScript-based frameworks will drive web development. JavaScript is still the most popular language for the last 8 years, and it continues to develop according to*[*Stack Overflow 2018 report*](https://insights.stackoverflow.com/survey/2018/#technology)*. No wonder its developer’s top pick language for it provides a whole new experience of flexibility, challenge, and power.*

### *3. Progressive Web App are general web applications that appear to users like a mobile app, but they are actually web pages and websites that just behave like a mobile app. it is the hottest web development trend of 2019. . 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.*

### *4. Single Page Application*

*Single-page application (SPA) is a web application based on JavaScript which works well among user devices. It boosts performance, minimizes 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. 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.*

### *5. Mobile-Friendly Website*

###### Mobile-friendly websites are websites that work well on smart phones. 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.

## *6:Automation Testing*

*The biggest and*[*most trusted platforms*](https://dzone.com/articles/comparing-top-10-cross-browser-testing-tools-in-20)*for automation testing are*[*Lambda Test*](https://www.lambdatest.com/)*,*[*Browser Stack*](https://www.browserstack.com/)*, or*[*Cross Browser Testing*](https://crossbrowsertesting.com/)*, which are even used by some large enterprises.*

### *7. Block chain Technology*

*It is believed that by 2020, Block chain will bring radical changes in the web industry. Block chain is an open and distributed ledger that is known for providing safe and protected online transactions by eradicating the need for liaisons.*

## *8. Internet of Things*

*IoT will open multiple opportunities for businesses and allow them to increase efficiency with high accuracy. Also, for providing better services to customers, it has become essential to integrate devices with websites*

## *9: Motion UI*

*Motion UI is one of the best web trends of 2019, as it gives you an easy solution to capture visitor’s attention. With Motion UI library, you can incorporate animated charts, background animations, hovers, and eye-catching headers.*