**Title: Impact of progressive Web Apps on Web App Development**

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**Motivation:**

My domain is Progressive Web Apps. When I grew-up I invent my interest field is on web-based apps that can load even without an internet connection. So, now I want to research in progressive web apps field. Recently I saw an article where a company like Alibaba they are working on progressive web apps (PWA) strategy. On that topic, I searched about it on google. Then I discovered some interesting information about it. For example, In the website app-like interfaces that work without any internet connection. PWA’s allows webpages (Web Apps) to become apps more and less like other webpages. For this, I like this type of domain.

**Literature Review:**

The name of my research topic is Impact of Progressive Web Apps on Web App Development. It is very important to work in this field. Because of Progressive Web Apps now the development of web apps using an offline-first strategy is possible. Progressive Web Apps are user experience which have the reach of web and are reliable, fast and engaging [1]. It loads faster, it could be a website that looks as well as functions similar to a normal app does and also it can be as fast as an apps. People said that progress of web apps was so fast before but in resent time it is not developing so fast [2]. People frequently told that Web Apps is not developing as well as expected. Right now, less amount of people talking about PWA (Progressive Web Apps). But people really want to development. In recent years, there has been a paradigm shift from browser to native apps and back to browser again [3]. When the internet connection is lost PWA’s offline mode feature helps users to view specific pages. As a result, all the procedure will stay constant. PWA’s are applications written for the web with web technologies, running in a browser, but seasoned with some techniques that can make them behave like a native application when running on a mobile device [4]. Progressive Web Apps, a new technology under development, hope this will ease our task. Considering their tremendous growth, PWAs are constantly improved, so that they will only be faster, more attractive, and more stable with time [5]. PWA has a lot of web features to work. The impact of progressive web apps on web development is tremendous. eCommerce brands are turning to PWAs in 2022 for addressing a range of business- and customer-related problems [6]. There are so many eCommerce brands right now they are working with PWAs so that they can engage more customers. After researching some research paper, some negative aspects of PWAs found for web app in future. It might be resolve in future. One of the main disadvantages of a PWA is that it has limited functionality when it comes to accessing a device’s hardware features [7]. However, this has been improving in recent years and it is expected to keep doing so. PWA is catching up with the features that are enabled by default in native apps by creating new standards and implementing them in browsers [8]. If PWA can be used to build the essential functions of an application, it can take the place of a native app. Research has shown that users tend to engage more with installed apps compared to visiting the official sites [9]. A PWA gives consumers the appearance, feel, and level of interaction of a normal app. Google Chrome OS users will be able to install PWAs on their machines, also greatly expanding the ecosystem of the operating system [10]. Recently, Google claims that the use of PWAs has skyrocketed in the past year, seeing a rise of 270% in PWA installations [11]. According to Windows Latest, it seems that Google is implementing a very helpful update to that process. Around 80 percent of the app users love to move the app to the home screen. [12] Users of PWAs can choose to store the app on their home screen without having to deal with download. Progressive web apps are the one type of cross platform app, which works over the web browser and are made lighter for giving the amazing native-like experience. [12] Considering everything it is better for users because users of PWAs do not need to worry about installing, browsing, or using the app store.

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