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DEVELOPMENT APPLICATION BASE IN SOFTWARE

Cloud-based solutions are believed to dominate the digital world. According to Cisco, the cloud will host over 94% of workload and computing processes in 2021. The cloud approach is also becoming extremely popular in eCommerce and other specific business areas due to advantages such as scalability, enhanced productivity, traffic cost reduction, and significantly lower equipment cost.

Any app consists of data and processing logic stored as code and need a space to be run. While speaking of a cloud-based application we mean that its user interacts with it through a mobile app or browser, and the data processing takes place on the remote server base and handled with the help of an API. In this case, a user's device serves only as the input device and does not host the majority of processes.

Cloud-based development differs from web development. However, to understand its peculiarities we need to recognise some of the significant characteristics of cloud-based apps. They are as follows:

- App's data is placed in a cloud infrastructure and could be partly cached on a user's device. There are minimum requirements for devices to run the app.
- Information can be stored on a user's device temporarily to allow them to access it while offline. Once the person is online again, the app will be updated and will upload the data generated offline to the cloud storage location.
- A cloud app can be reached with the help of any Internet-connected device including smartphones, tablets, and computers. For the user, it will appear in the same way regardless of the device and doesn't rely on browser capacities.
- Data encryption, data optimization and compression, as well as backup schedules, can be set up by the user.
- Cloud-based apps provide users with access to third-party cloud services with APIs integration and can be more readily customized than a web-based app.

Check examples of the most popular cloud-based apps: Google Drive, Evernote, Dropbox, Salesforce, WIX, Canva, and many others. One interesting fact is that in 2018, we used up to 36 cloud-based services daily on average. At the same time, most web apps we know also partly rely on cloud technologies.