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Assignment No: 3

Q:- Write a detailed essay of conventional desktop applications, Web Apps and Mobile Apps:-

1. Discuss differences and pros, cons.
2. Identify scenarios where each category is useful.
3. Highlight unique features of each application.
4. Include examples wherever applicable.

Ans:- In the current era of technology, there are three basic/main types of applications that we use are desktop apps, web apps and Mobile apps. Each has its own features and importance. These are as below:-

Desktop Applications:-

Desktop applications are software programs that run on desktop computers and laptops. These applications are downloaded and installed on computers hard-drive. Some apps are already installed and some apps are installed by us. These apps are typically designed to work within a specific operating system (e.g. Windows, MacOS, Linux). Millions of people are using desktop applications.

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Pros:-

- ⇒ They have a full advantage of computer's hardware resources; making them a more faster than web and mobile apps.
- ⇒ They can work without internet connection, which is useful for tasks need to be performed online.
- ⇒ These apps have more advanced features than web and mobile apps.

Cons:-

- ⇒ They require installation and updates, which can be time consuming and require technical expertise.
- ⇒ They are usually not portable across different devices, which means users can use them on computers in which they are installed.
- ⇒ They can be expensive to purchase.

Usages:-

They are useful where the users need a high-level functionality. Such as Video editing, gaming and 3D modeling. These are also useful when users have limited network connectivity and need to work offline.

Examples:-

- ⇒ Microsoft Office
- ⇒ Adobe Photoshop
- ⇒ Video games
- ⇒ Zoom.

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Web Applications:-

Web Applications are software programs that run within a browser. These applications are hosted on a web server and can be accessed through the Internet. This ^{is an} application program that is stored on a remote server and delivered over a Internet through browser interface.

Pros:-

- ⇒ These applications can be accessed from any device with an Internet connection, which makes them highly portable.
- ⇒ They don't require installation or updates, and users can access the latest version instantly.
- ⇒ They are cheaper or free to use compared to desktop applications.

Cons:-

- ⇒ They can be slower and less powerful than desktop applications due to their reliance on Internet connectivity and browser limitations.

Usage:-

Web applications are useful in scenarios where users need to collaborate or access information from different devices, such as online document editing, project management and social networking.

Examples:-

- ⇒ Google Docs
- ⇒ Trello
- ⇒ Amazon
- ⇒ Facebook

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Mobile Apps:-

Mobile apps are software programs designed to run on mobile devices, such as smart phones, tablets etc. These applications are downloaded and installed from app-stores and can be used without internet connection.

Pros:-

- ⇒ Mobile apps are highly portable.
- ⇒ They can offer advanced features, such as location tracking and camera integration, that are not available on desktop and web apps.
- ⇒ They can work offline, making them useful in areas with limited connectivity.

Cons:-

- ⇒ They may have limited functionality due to smaller screen size and hardware limitations.
- ⇒ They can take up a lot of storage on device.

Usage:-

Mobile apps are useful in scenarios where users need to access information or complete tasks on the go: such as, social media, navigation and shopping.

Examples:-

- ⇒ Instagram
- ⇒ Uber
- ⇒ Google Maps
- ⇒ Telegram.

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Conclusion:-

In conclusion, each one has its own unique features.

Desktop Apps → Scenarios requiring high performance and advanced functionality.

Web Apps → Ideal for collaboration and accessibility across multiple devices.

Mobile Apps → Suitable for situations requiring mobility and offline access.

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