

# A Study on BS Computer Science Students' Preference between Flash Drive and Cloud Storage

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**ABSTRACT:** *This study on student preference and satisfaction between Flash drive and Cloud storage is carried out with an objective to determine the students' preference and satisfaction. A survey questionnaire was conducted and sampling method was used to select the students. After collecting the data from the respondents and with the aid of questionnaire as data gathering instrument, the researchers will be able to determine the preference among students.*

**Keywords:** *Flash Drive, Cloud Storage*

## INTRODUCTION

The evolution of the different storage devices – primary and secondary have been a very important consideration for the purpose of storing files.

Many of us would consider the storage capacity when buying PC desktops and even laptops. The main reason is that people are working with different applications with varying file formats, thus having different file sizes.

Most companies have vital data they need to keep private, secure and easily accessible for themselves. People's needs to have more storage capacity while still being able to transport their data easily and securely have ultimately led to the invention of USB flash drives and then the Cloud.

A USB flash drive is a portable storage device. Its moderate price, portability and high capacity, users are increasing rapidly.

USB flash drives have many uses and a lot of potential. When it comes to protecting digital information from others, they are almost impossible to beat because whoever is in possession of the device controls who sees the information on it. USB flash drives can also require a password to allow access to information, and information stored on them can be encrypted.

Cloud computing is a developing service and computing platform that has taken commercial computing by rage. It provides easy access to the organization's storage infrastructure and high-performance computing. It is also an emerging business paradigm. Cloud computing provides the feature of huge scalability, high performance, reliability at very low cost.

Cloud Storage is a valuable tool not only in businesses but also for a variety of use even for personal use. Benefits of using cloud storage as compared with the traditional offline storage are easily available with the provider, it can have larger storage capacity, and files can be mobile and accessible for use in different electronic devices and locations.

The truth is both have their advantages and disadvantages, and because of their pros and cons, we cannot say with certainty which one is better than the other.

## OBJECTIVES OF THE STUDY

This study aimed to determine the preference of the BSCS students.

It is guided with the following objective:

1. To determine the extent of preference in terms of:
  - a. Performance;
  - b. Experience; and
  - c. Security.

## MATERIALS AND METHODS

### Research Design and Methodology

Descriptive research design is used by the researchers in this study. This method was deemed appropriate, since the study will only describe the preference of users.

### Sources of Data

In this study there are **one hundred fifty five (155)** respondents were asked to reveal their agreeableness and disagreeableness for the statement whereas 3. Highly Satisfied 2. Satisfied 1. Dissatisfied.

### Instrumentation and Data Collection

The questionnaire was distributed by the researchers among the one hundred fifty five (155) respondents of BS Computer Science. With the aid of questionnaire as data gathering instrument, the researchers will be able to determine the preference among students.

The following scale was used to evaluate the Preference of BS Computer Science students

*Table 1: Scale used to determine the preference of students.*

Arbitrary Value	Interpretation
3	Highly Satisfied
2	Satisfied
1	Dissatisfied

### Tools for Data Analysis

The researchers used statistical tool in analyzing the data on the Preference of students between flash drive and cloud storage.

The following Likert scale was used to interpret the computed weighted mean.

*Table 2: Likers Scale used to interpret the computed weighted mean.*

Numerical Equivalent	Statistical Range	Interpretation
3	2.34 - 3.00	Highly Satisfied (HS)
2	1.67 - 2.33	Satisfied (S)
1	1.00 - 1.66	Dissatisfied (DS)

## RESULTS AND DISCUSSIONS

The respondents of this study are **one hundred fifty five (155)** BS Computer Science students. Their preferences are presented in Table 3.

*Table 3: Scale used to determine the preference of students.*

Indicators	Flash Drive		Cloud Storage	
	Weighted Mean	Description	Weighted Mean	Description
1. Performance	2.11	Satisfied	2.67	Highly Satisfied
2. Experience	1.91	Satisfied	2.43	Highly Satisfied
3. Security	2.23	Satisfied	2.35	Highly Satisfied
<b>Over-All Weighted Mean</b>	<b>2.08</b>	<b>Satisfied</b>	<b>2.48</b>	<b>Highly Satisfied</b>

### a. Performance

The table shows that the BS Computer Science students are “*Satisfied*” in terms of performance when using Flash Drive to store their data or files with a weighted mean of 2.11, while for the Cloud storage a weighted mean of 2.67 signifies that students are “*Highly Satisfied*”.

#### **b. Experience**

As per Table 3 it shows that the students are “*Satisfied*” with a weighted mean of 1.91 in using flash drive in saving their files as per their experience, while a weighted mean of 2.43 for the cloud storage indicating that the students are “*Highly Satisfied*” as per their experience.

#### **c. Security**

For the last indicator, it shows that the students preferred cloud storage in terms of security when it comes to saving files. It is indicated in Table 3 having a weighted mean of 2.35 which is “*Highly Satisfied*” as compared to that of the flash drive with a weighted mean of 2.23 which is “*Satisfied*”.

The overall weighted mean of all indicators are **2.08** for the flash drive and **2.48** for cloud storage. It signifies that students of BS Computer Science preferred to use cloud storage with a description of **highly satisfied**.

#### **REFERENCES**

- [1] Baynum, J. (2017). USB Flash Drive versus The Cloud . Retrieved from <https://mediafast.com/usb-flash-drives-vs-the-cloud/>
- [2] Kumar, S. (2013). A Study on Customer Satisfaction Towards Pen Drive In Karaikudi City. Retrieved from <https://www.iosrjournals.org/iosr-jbm/papers/ncibppte-volume-3/23.pdf>
- [3] Liu, A. and Yu, T. (2018). Overview of Cloud Storage. Retrieved from <https://hal.archives-ouvertes.fr/hal-02889947/document>