**Literature Review**

[Rafael Alvarez](https://sciprofiles.com/profile/245297) and his fellow partners researched in 2018 on optimizing the hashing function with symmetric encryption for passwords (Álvarez, Andrade, & Zamora, 2018). The study was focused on the functions used in symmetric keys for better password hashing so that no one could hack the password. The researchers used qualitative research and gathered information from previous studies. From results, they proposed that cybersecurity could be achieved by applying AES as a pseudorandom generator and taking benefit of hardware acceleration for AES. The researchers analyzed the characteristics of hashing and symmetric cryptography and compared them with other algorithms like Argon2 and Scrypt for the better application of research findings.

In 2016, research was done by Fatma Omara and her partners on the hybrid hashing security algorithm for data storage on cloud technology (Omara & AbdElnapi, 2016). Cloud technology is the fastest growing technology in the modern era, and most of the people use this technology to store and compute their data. The biggest issue is the security threats of cloud computing, and this research is focused on the security measures of those issues using advanced encryption algorithms. The research methodology focused on the studies of hashing and other cryptography encryptions and analyzed their implementation bu using different data sets. The results showed that Encryption algorithms symmetric, hybrid algorithms, hashing, and asymmetric algorithms are very useful to secure data of cloud from stealing.

# Methodology

## Research Design

Hashing is one of the complex topics in the field. The methodology which was used to create this paper was the qualitative methodology. Qualitative methodology is one of the most advance tool and technique which involves completing research. It is important to understand that there is a proper need fora brief analysis on which the content which has already been publishing was studied to understand the subject. There are four types of qualitative methodology which were used in the paper. It is important to understand that to complete the research, there is the need methodology design, which helps in identifying the problems regarding the technology(Schoonenboom, 2017).

One of the main reason to write this paper was to identify the issue which was involved in the problem. There are four types of techniques that have been used in qualitative technology. It is important to understand there all four types of tools helped to complete this research. The most common type of qualitative research is phenomenology. This type of research involves in development of the brief theory. Furthermore, it can be said the qualitative methodology is one of the helpful tools for the development of the research(Schoonenboom, 2017).

## Research Approach

The research which has been conducted is has been used as the approach of the subjective analysis. Remaining in the domain of the research question, this paper was complete. It is important to understand new and different techniques for the research have been utilized. Multiple research papers were analyzed to complete the research. The subjective methodology allows the user to understand the correct technique of developing subjective research. The subjective research approach helps the user to understand the proper functions of the paper, and it allow the user to evaluate the subject critically. This is one of the best tools for discovering the issue of the subject(Leavy, 2017).

A good strategy may develop leads to good results. Defining a procedure before starting the paper is the best policy. Before the research was started the paper review of the subject with the right references is necessary, so it is compulsory to gather all the relevant reference before your start to examine the subject. Reliable information has to be obtained from reliable sources. What decides them, that they are reliable is your methodology by investigating their researchers. A method is simply a research tool. Methodology justifies why a particular has chosen the specific method to obtain the right results(Leavy, 2017).

Remaining in the domain of the research question, it was discovered that hashing one of the complex issues. Anti-theft has become a cyber threat to the user. Encryption is the best techniques to make the password more secure for the user, but during the research was observed that hacker has been much strong to crack the passwords. It is important to understand that there are several tools and techniques to make the password more secure. Using the subjective methodology of multiple research papers and articles, it was observed that hashing is one of the best techniques to make the password more strong(Cao, 2020).

During the research, it was also observed that hashing is one of the best techniques of encrypting the password, and it has been observed that decryption of the password is not easy. The collection of the data was done through multiple sources that involved many different studies. It is important to understand that there is a brief need for the methodology to help and allows the user to understand the subject in such a manner that all the issues are discovered properly.

To complete the research, it was discovered the literature review was done on several topics. This is one of the subjective research approaches which helps to explain the paper more clearly. There are two types of methodology which are often use in the paper. The methodology and procedure of a research paper define the quality of the paper how accurate the information provided by individual supports the context with reliable sources. It can be said that both of these are techniques which have been explained are helpful for the individual to write research efficiently(Leavy, 2017).