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**Department of Computer Science and Engineering**

**Cloud Computing – 17CS742**

**UNDER THE GUIDENCE OF**

**Dr. Naidila Sadashiv (Asst. Professor)**

***TOPIC: SECURING CLOUD DATA USING CRYPTOGRAPHY ALGORITHMS***

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**ABSTARCT**

Nowadays, security has become a most important concern of all users. Our project mainly focuses on how the users’ data can be safe. This project mainly accepts a file from the user. The file accepted is encrypted with the help of a password in the cloud and the encrypted file along with the password is allowed to be downloaded and copied respectively by the user. The password can be auto generated or the password can be suggested by the user. Later whenever the user needs the original file, the user can upload the encrypted file along with the password. The website accepts the file and project and decrypts the file in the cloud. Later the user is allowed to download the decrypted file. In the whole process, the user data is not stored anywhere in the cloud. In this way the user can safely encrypt and decrypt their files without the concern of security.

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**INTRODUCTION**

**DESIGN AND IMPLEMENTION**

**FUTURE ENHANCEMENTS**

We have jotted down quite a few points which would be done in the future. The project would have the following in the future. They are as follows:

* An option will be given to the user if he/she wants to encrypt the file name also. If the user chooses yes then the file name will also be encrypted. .enc extension will be attached to the encrypted file. The file which will be downloaded by the user will have .enc extension attached to it.
* . enc extension will be attached to the encrypted file. The file which will be downloaded by the user will have .enc extension attached to it.
* The website will allow the user to upload multiple files for the encryption to take place. In the same way user can upload multiple files to decrypt as well. In this way it would reduce the time consumption of the user.
* The new update will also have an option for the user to choose which type of encryption should be used for encrypting the file.
* New and more advanced encryption methods will be used.
* The future update will allow the user to upload all types of file with extensions such as .mkv, .mp4 etc.,
* A functionality will be added which will allow the user to share both the encrypted and decrypted file directly via mail, link, etc., directly from the website.
* A mobile application will also be developed on this project which will allow the user to encrypt and decrypt their files via phone.