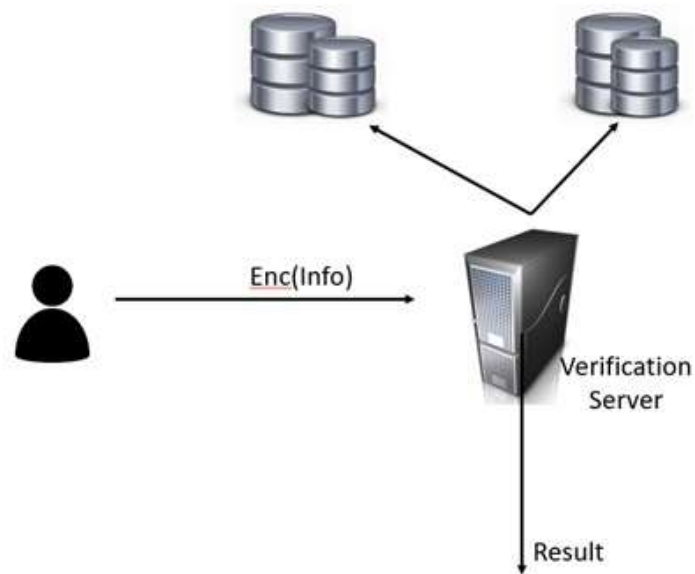


# Secure Information Verification

While the digital revolution has helped to reduce the cost and human effort in many aspects of life, personal information verification in almost the processes is still costly and requires a huge amount of physical effort. In a certain application procedure (e.g. insurance, loan, visa, etc.), people need to prepare a lot of physical documents for verification. The verification process may involve many officers and take a long time to complete. Moreover, handling personal information to a third party brings a critical privacy threat to people.

In the project, we attempt to provide solutions to securely verify the personal information without the requirement of physical documents. The information provided by the applicant is validated with the help of multiple third party databases (e.g. banks, hospital, government) in privacy preserving manner. The third-party databases should not obtain any information on the applicants. At the same time, the party who triggers the verification process should gain nothing information except the result of the process. Our research has another interesting application in secure policy making. In this application, a virtual consolidated database could be established so that policy makers could perform aggregate queries.



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