

## ABSTRACT

E-KYC systems often face severe challenges regarding the security and privacy of the related documents stored in the cloud, which becomes a crucial issue. As the volume of data continues to grow, efficient verification becomes increasingly critical. Traditional methods, which require files to be verified individually, are time-consuming and inefficient. The proposed system implements Searchable Symmetric Encryption is used to handle searches from large data sets and maintain the security aspect of seed generation using Turbulence Padded Chaotic Map. Experimental research shows that the time for data searching on large datasets improved significantly while maintaining security.

**Keywords:** e-KYC,searchable symmetric encryption,turbulence padded chaotic map,blockchain