

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore-560057

Department Of Computer Science and Engineering

Certificate



Certified that the project work entitled "DECENTRALIZED ACCESS CONTROL WITH ANONYMOUS AUTHENTICATION OF STORED DATA" carried out by ADESH BEDRE A (ISG11CS004), KIRTHAN R KOTIAN (ISG11CS035) and PAVITHRA V (ISG11CS052), bonafide students of this institute, in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the academic year 2014-15. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

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ABSTRACT

The newly proposed decentralized access control scheme for secure data storage supports anonymous authentication. In this scheme, the system verifies the authenticity of the user without knowing the user's identity before storing data. This scheme also has the added feature of access control in which only valid users are able to decrypt the stored information. It also prevents replay attacks and supports creation, modification, and reading data stored in the server. The scheme also addresses user revocation. Moreover, the secret key is distributed in a decentralized way, unlike other access control schemes which are centralized. It also provides a secure way of exchanging keys between the users. The communication, computation, and storage overheads are comparable to centralized approaches.