A PROJECT REPORT

ON

EFFICIENT TRACEABLE AUTHORIZED SEARCH SYSTEM FOR

SECURE CLOUD STORAGE

A Project report submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE & ENGINEERING

Submitted By

|  |  |  |
| --- | --- | --- |
| M. Karthik | 192P1A0569 |  |
| M. Mahaboob Basha | 192P1A0576 |
| P. Bindu Shruthika | 192P1A0596 |
| P. Naga Lakshmi | 192P1A0595 |
| M. Mahendra Kumar Reddy | 192P1A0575 |

Under The Esteemed Guidance of

Mr. N. SRINIVASAN M.Tech

Assistant Professor

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

AN ISO 9001:2015 CERTIFIED INSTITUTION

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

(Sponsored by Bharathi Educational Society)

(Affiliated to J.N.T.U.A., Anantapuramu, Approved by AICTE, New Delhi)

Recognized by UGC Under the Section 2(f) & 12(B) of UGC Act, 1956

Accredited by NAAC & NBA

Autonomous

Vidyanagar, Proddatur-516360, Y.SR.(Dist.), A.P.

2019 - 2023

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CERTIFICATE

This is to certify that the project work entitled “**EFFICIENT TRACEABLE AUTHORIZED SEARCH SYSTEM FOR SECURE CLOUD STORAGE**” is a bonafide work of M. Karthik (192P1A0569), M. Mahaboob Basha (192P1A0576), P. Bindu Shruthika (192P1A0596), P. Naga Lakshmi (192P1A0595), M. Mahendra Kumar Reddy (192P1A0575) submitted to Chaitanya Bharathi Institute of Technology, Proddatur in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in COMPUTER SCIENCE AND ENGINEERING. The work reported here in does not form part of any other thesis on which a degree has been awarded earlier. This is to further certify that they have worked for a period of one semester for preparing their work under our supervision and guidance.

|  |  |  |
| --- | --- | --- |
| INTERNAL GUIDE  Mr. N. SRINIVASAN M.Tech  Assistant Professor |  | HEAD OF THE DEPARTMENT  Mrs. D. Salma Faroze M.Tech  Assistant Professor |
|  | PROJECT COORDINATOR  Mr. N. SRINIVASAN M.Tech  Assistant Professor |  |
| INTERNAL EXAMINER |  | EXTERNAL EXAMINER |



Certificate

This is to certify that following team members **B.Tech (CSE)** (2019-23) studying final year from **CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY**, Proddatur, YSR Kadapa (dist.), A.P., (Affiliated to J.N.T.U – UNIVERSITY Anantapur, A.P., India), have been successfully completed their **ACADEMIC MAJOR PROJECT** titled “**EFFICIENT TRACEABLE AUTHORIZED SEARCH SYSTEM FOR SECURE CLOUD STORAGE**” by using **JAVA TECHNOLOGY** and other related tools under the guidance of this organization. The following is the list of students who were involved with the design, develop and deployment of the above-mentioned project.

|  |  |  |  |
| --- | --- | --- | --- |
| S. No | Roll No | Name | Class |
| 1 | 192P1A0569 | M. Karthik | CSE IV Year |
| 2 | 192P1A0576 | M. Mahaboob Basha | CSE IV Year |
| 3 | 192P1A0596 | P. Bindu Shruthika | CSE IV Year |
| 4 | 192P1A0595 | P. Naga Lakshmi | CSE IV Year |
| 5 | 192P1A0575 | M. Mahendra Kumar Reddy | CSE IV Year |

We offered them the complete project guidance & assistance. We place our appreciation on records for their commitment and hard work done during the design & development of this project and the project was completed to our best satisfaction.

Thanks & Regards,

Suman

Trainer

DECLARATION BY THE CANDIDATES

We are M. Karthik, M. Mahaboob Basha, P. Bindhu Shruthika, P. Naga Lakshmi, M. Mahendra Kumar Reddy with respective Roll No : (192P1A0569), (192P1A0576), (192P1A0596), (192P1A0595), (192P1A0575) here by declare that the Project Report entitled “EFFICIENT TRACEABLE AUTHORIZED SEARCH SYSTEM FOR SECURE CLOUD” under the guidance of Mr. N. SRINIVASAN M.Tech, Assistant Professor, Department of CSE is submitted in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in Computer Science & Engineering.

This is a record of bonafide word carried out by us and the results embodied in the Project Report have not been reproduced or copied from any source. The results embodied in this Project Report have not been submitted to any other University or Institute for the Award of any other Degree or Diploma.

|  |  |  |
| --- | --- | --- |
| M. Karthik | 192P1A0569 |  |
| M. Mahaboob Basha | 192P1A0576 |
| P. Bindu Shruthika | 192P1A0596 |
| P. Naga Lakshmi | 192P1A0595 |
| M. Mahendra Kumar Reddy | 192P1A0575 |

|  |
| --- |
| Dept. of Computer Science & Engineering  **Chaitanya Bharathi Institute of Technology**  Vidyanagar, Proddatur, Y.S.R.(Dist.) |

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**CONTENT**

|  |  |
| --- | --- |
| **Table of Contents** | **Page No** |
| **Abstract** | **I** |
| **List of Figures** | **II** |
| **List of Screens** | **III** |
| 1. **Introduction**    1. Literature Review | **1 – 5**  3 - 5 |
| 1. **System Analysis**    1. Existing System    2. Proposed System | **6 – 8**  6 – 7  7 – 8 |
| 1. **Requirement Specifications** | **9** |
| 1. **System Design**    1. System Architecture    2. Block Diagrams    3. UML Diagrams       1. Use case Diagram       2. Class Diagram       3. Sequence Diagram       4. Activity Diagram | **10 – 19**  10 – 11  12  13  14 – 17  18  19  20 |
| 1. **Coding and Implementation** | **21 – 50** |
| **6. Testing**   1. Introduction 2. Types of Testing   6.1. Unit Testing  6.2. Integration testing  6.3. Functional Testing  6.4 System Testing  6.5 White Box Testing  6.6 Black Box Testing  6.7 Acceptance Testing | **51 – 53**  51  51  51  52  52  53  53  53  53 |
| **7. Results** | **54 - 65** |
| **8. Conclusion and Enhancement**  8.1 Conclusion  8.2 Future Enhancement | **66**  66  66 |
| **9. Appendix** | **67 – 74** |
| **10. Bibliography** | **75 - 77** |
| **11. Biodata** | **78** |

**ABSTRACT**

Secure search over encrypted remote data is crucial in cloud computing to guarantee the data privacy and usability. To prevent unauthorized data usage, fine-grained access control is necessary in multi-user system. However, authorized user may intentionally leak the secret key for financial benefit.

Thus, tracing and revoking the malicious user who abuses secret key needs to be solved imminently. In this project we propose an escrow free traceable attribute based multiple keywords subset search system with verifiable outsourced decryption (EF-TAMKS-VOD).

The key escrow free mechanism could effectively prevent the key generation centre (KGC) from unscrupulously searching and decrypting all encrypted files of users. Also, the decryption process only requires ultra lightweight computation, which is a desirable feature for energy-limited devices.

In addition, efficient user revocation is enabled after the malicious user is figured out. Moreover, the proposed system is able to support flexible number of attributes rather than polynomial bounded.

Flexible multiple keyword subset search pattern is realized, and the change of the query keywords order does not affect the search result. Security analysis indicates that EF-TAMKS-VOD is provably secure. Efficiency analysis and experimental results show that EF-TAMKS-VOD improves the efficiency and greatly reduces the computation overhead of users’ terminals.

**List Of Figures**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.NO** | **FIG NO** | **FIGURE NMAE** | **PAGE NO** |
| 1 | 4.1 | System Architecture | 10 |
| 2 | 4.2 | Block Diagram | 12 |
| 3 | 4.3.1.a | Use Case Diagram of Data Owner | 14 |
| 4 | 4.3.1.b | Use Case Diagram of Data User | 15 |
| 5 | 4.3.1.c | Use Case Diagram of Data KGC | 16 |
| 6 | 4.3.1.d | Use Case Diagram of Data Cloud | 17 |
| 7 | 4.3.2 | Class Diagram | 18 |
| 8 | 4.3.3 | Sequence Diagram | 19 |
| 9 | 4.3.4 | Activity Diagram | 20 |

**List Of Screens**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.NO** | **FIG NO** | **FIGURE NMAE** | **PAGE NO** |
| 1 | 7.1 | Owner Registration Page | 54 |
| 2 | 7.2 | User Registration Page | 55 |
| 3 | 7.3 | Owner Login Page | 56 |
| 4 | 7.4 | User Login Page | 56 |
| 5 | 7.5 | KGC Login Page | 57 |
| 6 | 7.6 | Cloud Login Page | 57 |
| 7 | 7.7 | File Upload Page | 58 |
| 8 | 7.8 | View Files Page | 58 |
| 9 | 7.9 | Files Search Page | 59 |
| 10 | 7.10 | File Download Page | 59 |
| 11 | 7.11 | File Request Page | 60 |
| 12 | 7.12 | User Activation Page | 60 |
| 13 | 7.13 | Owner Activation Page | 61 |
| 14 | 7.14 | View Data Owner Page | 61 |
| 15 | 7.15 | View Data User Page | 62 |
| 16 | 7.16 | File Information Page | 62 |
| 17 | 7.17 | Generating OTP | 63 |
| 18 | 7.18 | Download Page | 63 |