**CHAPTER 01**

**INTRODUCTION**

**1.1 INTRODUCTION**

In recent years, a lot of research has been done on encrypted search technologies. As more and more data is being saved in the cloud, building indexes using independent keywords has led to high storage costs and poor search efficiency, which has made the issue urgently needing to be solved. Therefore, we provide a novel feature matching ranked search method (FMRSM) for encrypted cloud data in this study. Our system builds indexes using the feature score algorithm (FSA), allowing multi-keyword features that are taken from a document as a feature to be translated to one dimension of the index. By doing so, it is possible to lower the cost of index storage while increasing the effectiveness of encryption. Additionally, the trapdoor generation process in FMRSM employs a matching score algorithm (MSA). Using as a guide. As a result, index storage costs may be decreased and encryption effectiveness can be increased. Furthermore, the FMRSM generates trapdoor processes using a matching score algorithm (MSA). The matching score algorithm is able to produce results with improved ranking accuracy because to FSA, which allows it to rank the search results according to the type of match and the amount of matching terms. A thorough investigation shows that our mechanism is more practical and efficient.

In this study, we propose a novel feature matching ranked search method (FMRSM) for encrypted cloud data. We first provide a feature scoring algorithm (FSA) that can map several keywords to indexes that are extracted from a page and placed in the index's first dimension. As a consequence, this method can both reduce index dimensions and improve encryption efficiency when compared to creating indexes with distinct terms. For the trapdoor generation step of the FMRSM, we design a novel matching score method (MSA). This algorithm may not only focus on the matching relationship between query terms and attributes, but also carefully study each matching type in order to offer results that are most similar to the user's real request.

**Keywords:** Encrypted Search, Storage cost, Matching score.

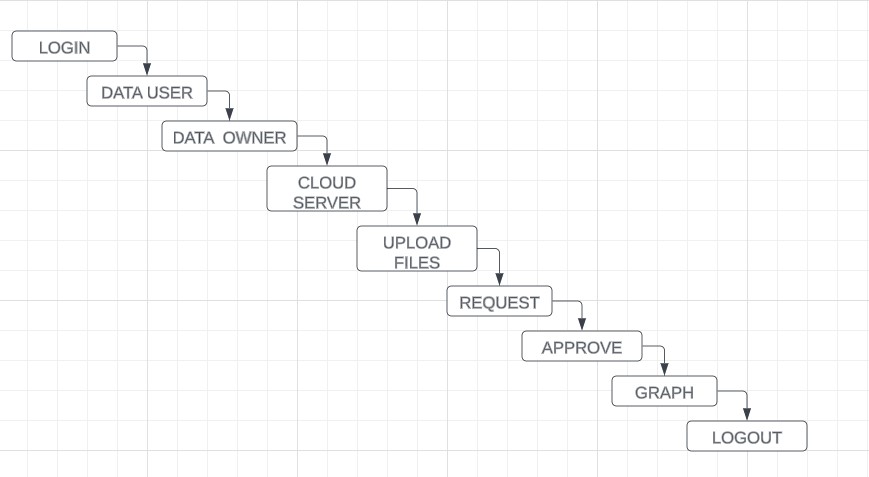
**1.2 Objectives**

The objectives of Novel feature matching ranked search are:

* Converting a user-oriented description of the input into a computer based system.
* Reduce index dimensions and improve encryption efficiency.
* Matching Score Algorithm (MSA) focuses on matching relationship between query terms and attributes.
* FSA algorithm designed to improve ranking accuracy.
* Our mechanism is more practical and efficient.

**1.3 STATEMENT OF PROBLEM METHODOLOGY**

Sensitive data should be encrypted before being outsourced for privacy concerns, which prevents obsolete data uses such document retrieval using keywords. Distributed computing is viewed as an alternative big business IT base model that can organize enormous processing, storage, and application assets while enabling clients to benefit from ubiquitous, advantageous, and on-interest system access to a common pool of configurable registering assets with exceptional efficiency and minimal financial overhead. Despite the many benefits of cloud administrations, outsourcing sensitive data (for When data is delivered to remote servers (for communications, individual health data, corporate financial data, government archives, etc.), security concerns are raised. Cloud administration providers (CSPs) who keep sensitive customer data without authorization may have access to it. To ensure the confidentiality of the information, encoding the data before outsourcing is a popular approach. Whatever the case, information users will incur a large expense as a result.

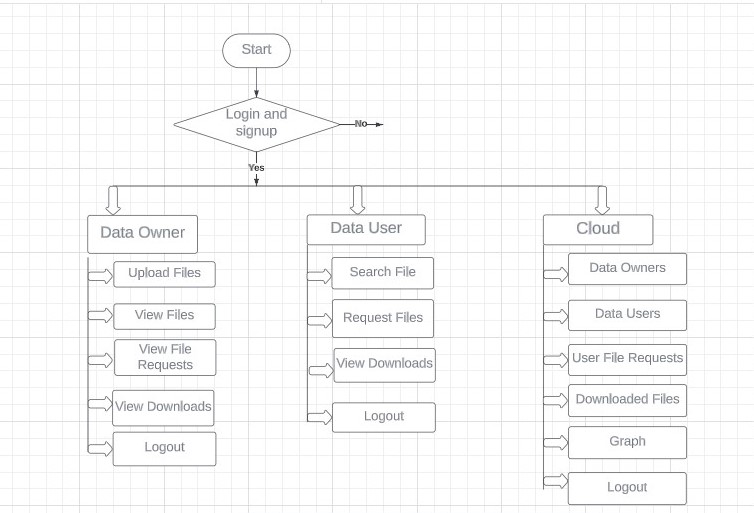


**FIGURE 1.1 WATERFALL MODEL OF PROJECT**

**1.3.2 METHODOLOGY**

As more data is being stored in the cloud, creating indexes with unbiased key words has resulted in significant storage cost and coffee search accuracy, which has ended a crisis that has to be resolved. For encrypted cloud data, we therefore support a novel feature matching ranked seek method (FMRSM) in this study. With the help of the characteristic rating set of rules (FSA) used by this technique to construct indexes, it is possible to map many key words that may be taken from a file as a characteristic to a single index size. As a result, the performance of encryption may be enhanced but the garage value of indexes may be diminished. Additionally, FMRSM uses the same 1.rating set of rules (MSA) to produce the trapdoor process. With FSA's assistance, the matching rating set of rules may score the search results according to the type of match and the numerous key phrase matches, and as a result, it can return results in improved rating accuracy. A thorough analysis demonstrates the improved viability and effectiveness of our technique.

**1.4 FLOWCHART**

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**FIGURE 1.2 FLOWCHART**

**1.5 LIMITATIONS**

* It will inevitably leads to a huge storage cost.
* The storage cost of indexes can still be high.
* The search accuracy can be affected by the quality of the feature extraction algorithm.
* The mechanism is not suitable for all types of queries.
* The search accuracy can be affected by the quality of the index.

**CHAPTER 2**

**LITERATURE SURVEY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SL.NO** | **TITLE OF PAPER** | **AUTHOR** | **JOURNAL** | **YEAR** | **REMARKS** |
| 01. | Verifiable symmetric searchable encryption for semi-honest-but-curious cloud servers. | Q. Chai and G. Gong | IEE TransactionComputers. | 2014 | Outsourcing data to cloud servers, while increasing service availability and reducing users' burden of managing data, inevitably brings in new concerns such as data privacy, since the server may be honest-but-curious. To mediate the conflicts between data usability and data privacy in such a scenario, research of searchable encryption is of increasing interest. Motivated by the fact that a cloud server, besides its curiosity, may be selfish in order to save its computation and/or download bandwidth, in this paper, we investigate the searchable encryption problem in the presence of a semi-honest-but-curious server, which may execute only a fraction of search operations honestly and return a fraction of search outcome honestly. |
| 02. | Designated cloud server public key encryption with keyword search from lattice in the standard model. | X. Zhang, C. Xu, R. Xie, and C. Jin. | The Royal Society Publishing. | 2014 | Public key encryption with keyword search (PEKS) can allow one to search the encrypted data with a keyword efficiently. Due to the booming of post-quantum cryptography, we propose public key encryption with keyword search from lattice assumption, which can resist quantum computer attacks. We delegate a particular cloud server to search the results, thus only the designated cloud server can finish the test process. Our scheme has been proved ciphertext indistinguishability in the standard model, which can reflect its security in the real world. To the best of our knowledge, our scheme is the first construction based on lattice in the standard model, which is a step stone in the post-quantum cryptographic communication. |
| 03. | Privacy preserving keyword searches on remote encrypted data | Y. Chang and M. Mitzenmacher | Research Gate. | 2015 | In this paper, we offer solutions for this problem under well-defined security requirements. Our schemes are efficient in the sense that no public-key cryptosystem is involved. Indeed, our approach is independent of the encryption method chosen for the remote files. They are also incremental, in that U can submit new files which are secure against previous queries but still searchable against future queries. For example, a user may want to store old e-mail messages encrypted on a server managed by Yahoo or another large vendor, and later retrieve certain messages while travelling with a mobile device. The user wants to efficiently retrieve some of the encrypted files containing (or indexed by) specific keywords, keeping the keywords themselves secret and not jeopardizing the security of the remotely stored files. |
| 04. | Practical techniques for searches on encrypted data. | D. X. Song, D. Wagner, and A. Perrig | Semanticscholar.org | 2015 | In this paper as our techniques have a number of crucial advantages. They are provably secure: they provide provable secrecy for encryption, in the sense that the untrusted server cannot learn anything about the plaintext when only given the ciphertext; they provide query isolation for searches, meaning that the untrusted server cannot learn anything more about the plaintext than the search result; they provide controlled searching, so that the untrusted server cannot search for an arbitrary word without the user's authorization; they also support hidden queries, so that the user may ask the untrusted server to search for a secret word without revealing the word to the server. The algorithms presented are simple, fast, and introduce almost no space and communication overhead, and hence are practical to use today. |
| 05. | SSARES: Secure searchable automated remote email storage | A. J. Aviv, M. E. Locasto, S. Potter, and A. D. Keromytis | Researchgate.net | 2015 | The increasing centralization of networked services places user data at considerable risk. Although users could employ an end-to-end encryption scheme (e.g., PGP), such measures are not widely adopted, require action on the sender side, only provide partial protection (the email headers remain in the clear), and prevent the users from performing some common operations, such as server-side search. To address this problem, we present secure searchable automated remote email storage (SSARES), a novel system that offers a practical approach to both securing remotely stored email and allowing privacy-preserving search of that email collection. Our solution encrypts email (the headers, body, and attachments) as it arrives on the server using public-key encryption. SSARES uses a combination of identity based encryption and bloom filters to create a searchable index. |
| 06. | A Novel Verifiable and Dynamic Fuzzy Keyword Search Scheme over Encrypted Data in Cloud Computing | X. Zhu, Q. Liu, and G. Wang. | Proc. IEEE Trustcom/BigDataSE/ISPA. | 2016 | In this paper We enhance the performance of the fuzzy keyword search in three aspects. Firstly, we formulate the similarity of homoglyph and propose a privacy-preserving homoglyph search. Secondly, we put forward an index build mechanism without the false-positive, which reduces the storage overhead of the index and is suitable for arbitrary languages. Thirdly, POSA returns just the user’s search, i.e., all returned documents contain the search keyword or its homoglyph. The theoretical analysis and experimental evaluations on real-world datasets demonstrate the effectiveness and efficiency of POSA. |
| 07. | An efficient fuzzy keyword matching technique for searching through encrypted cloud data,'' | M. A. M. Ahsan, F. Z. Chowdhury, M. Sabilah, A. W. B. A. Wahab, and M. Y. I. B. Idris | IEEE | 2017 | In this paper, for the first time we formalize and solve the problem of effective fuzzy keyword search over encrypted cloud data while maintaining keyword privacy. Fuzzy keyword search greatly enhances system usability by returning the matching files when users' searching inputs exactly match the predefined keywords or the closest possible matching files based on keyword similarity semantics, when exact match fails. In our solution, we exploit edit distance to quantify keywords similarity and develop an advanced technique on constructing fuzzy keyword sets, which greatly reduces the storage and representation overheads. Through rigorous security analysis, we show that our proposed solution is secure and privacy-preserving, while correctly realizing the goal of fuzzy keyword search. |
| 08. | ``Secure multi-keyword ranked search over encrypted cloud data for multiple data owners'' | Z. Guo, H. Zhang, C. Sun, Q. Wen, and W. Li | ScienceDirect | 2018 | In this paper, we propose a secure multi-keyword ranked search scheme for multiple data owners. A trusted third party is imported to solve the problem of key management. In order to protect privacy for both owners and users, the Asymmetric Scalar-product Preserving Encryption approach is utilized for encrypting weighted index and query. Extensive experiments demonstrate that our proposed scheme is secure, accurate and efficient. |
| 09. | Enabling efficient and verifiable multi-keyword ranked search over encrypted cloud data | X. Jiang, J.Yu, J.Yan, and R. Hao | ScienceDirect | 2019 | In this paper, we develop a multi-keyword ranked search scheme over encrypted cloud data, which also supports search results verification. To achieve efficient multi-keyword search based on an inverted index structure. To reduce the search complexity, we use the strategy that firstly searching the estimated least frequent keyword in the query to significantly narrow down the number of searching documents. Extensive experimental evaluation shows the efficiency in the computation overhead of search and verification. |
| 10. | Extensive experimental evaluation shows the efficiency in the computation overhead of search and verification. | X. Zhang, C. Xu, R. Xie, and C. Jin | ResearchGate | 2022 | Encrypted data search allows cloud to offer fundamental information retrieval service to its users in a privacy-preserving way. In most existing schemes, search result is returned by a semi-trusted server and usually considered authentic. However, in practice, the server may malfunction or even be malicious itself. Therefore, users need a result verification mechanism to detect the potential misbehavior in this computation outsourcing model and rebuild their confidence in the whole search process. |

## 2.1 FEASIBILITY STUDY

## A feasibility study is an assessment of the viability and practicality of a proposed project or idea. In the case of a novel feature matching ranked search, a feasibility study would involve evaluating the technical, economic, and operational aspects of implementing such a system. Here are some considerations that would typically be included in a feasibility study for a novel feature matching ranked search:

## Technical Feasibility:

## Assess the availability of suitable feature extraction and matching algorithms that can handle the desired types of features and achieve accurate results. Evaluate the computational requirements of the feature matching process, including the time and resources needed for indexing, querying, and ranking. Determine the compatibility of the proposed system with existing infrastructure and technologies.

## Economic Feasibility:

## Analyze the cost of developing or acquiring the necessary software and hardware components for implementing the feature matching ranked search. Consider the cost of training and maintaining the system, including ongoing updates to feature extraction and matching algorithms. Estimate the potential return on investment (ROI) or benefits that can be gained from deploying the system, such as improved search efficiency or enhanced user experience.

## OPERATIONAL FEASIBILTY

## User friendly

## Our system is made to be accessible by everyone without any modifications and to function properly so that people may join up for the cloud.

**Reliability**

When a user logs into the cloud server using our technology, they may upload files using it. The uploaded file can then be updated and downloaded.

**Security**

The authenticated Feature score algorithm (FSA) secures the data in our system.

**Portability**

Our application was developed using industry-standard open source tools including HTML, CSS, and JSP. Consequently, our solution is compatible with Linux and Windows. Therefore, portability won't be a problem.

**Availability**

There will always be access to our software.

**Maintainability**

A two-tiered structure is used in our system. HTML, CSS, and JSP make up the front-end, or first layer components. MySQL databases make up the back-end, sometimes referred to as second layer components.

## CHAPTER 3

## TECHNOLOGY USED

|  |  |  |
| --- | --- | --- |
| SL NO | TECHNOLOGY | DESCRIPTION |
| 1. | HTML 5 | |  | | --- | | Hypertext Markup Language (HTML), a standardised descriptive language, specifies the structure of websites. Despite its widespread use, HTML5 is now viewed as more of a catchphrase than a specific version, one that essentially refers to a collection of modern internet technologies, including HTML. The HTML specification is maintained by a collection of individuals and organisations known as the Web Hypertext Application Technology Working collection (WHATWG), who have officially dubbed the HTML standard as the "HTML Living Standard." The group refers to HTML as a "living standard" since it is continuously modified in response to suggestions from vendors, developers, and other interested parties. | |
| 2. | CSS3 | |  | | --- | | The presentation of a page created in a markup language like HTML or XML (including XML dialects like SVG, MathML, or XHTML) is described by a style sheet language known as Cascading Style Sheets (CSS). CSS controls how a web page should look and feel. You may change the colour, font style, and spacing between paragraphs, column size and layout, background images or colours, layout designs, changes in display for various devices and screen sizes, as well as a variety of other effects, with CSS. CSS enables considerable control over how an HTML document is presented, whilst being simple to understand and master. | |
| 3. | MYSQL5.5 | |  | | --- | | The universal release of MySQL 5.5 has been announced by Oracle. With the help of the new version, users may now boost the speed and scalability of web applications in a variety of operating systems, including Windows, Linux, Solaris, and Mac OS X. With the release of MySQL 5.5, various speed improvements were made, including quicker index building, enhanced query optimisation, and improved InnoDB storage engine efficiency. Database performance tuning and optimisation are aided by the monitoring and analysis of resource usage, query execution statistics, and other performance-related indicators. | |
| 4. | ADVANCE JAVA | |  | | --- | | Advanced Java provides a number of web development tools and frameworks. Developers are permitted to blend Java code with HTML using JavaServer Pages (JSP). A web framework for creating user interfaces, JavaServer Faces (JSF), is component-based. While the JavaServer Pages Standard Tag Library (JSTL) makes the creation of JSPs easier, Servlets offer a mechanism to handle HTTP requests and answers. Asynchronous communication is made possible between components through the Java Message Service (JMS). Working with databases is made possible through the Java Persistence API (JPA), which offers an object-relational mapping (ORM) framework. | |
| 5. | BOOTSTRAP | |  | | --- | | Bootstrap is a well-known open-source front-end framework that makes it easier and faster to create responsive and aesthetically pleasing web pages and online apps. It offers a set of pre-made CSS and JavaScript components, together with a flexible grid system, to aid designers in producing cutting-edge and unified designs. A responsive grid system built on a 12-column layout is part of Bootstrap. It enables designers to construct adaptable layouts that adjust to various screen sizes and devices. | |  | |
| 6. | AJAX | |  | | --- | | AJAX (Asynchronous JavaScript and XML) is a method for creating web apps in web development. It enables asynchronous data transfer between the web browser and the server without requiring a complete page reload. AJAX makes it possible to transfer data from the client side to the server side without interfering with how the user interacts with the website. It enables background queries to be made to the server, processes the result asynchronously, and dynamically updates the web page. By enabling data to be transmitted to the server for processing and receiving updated information, AJAX simplifies communication with the server. | |

## 3.1 HARDWARE AND SOFTWARE REQUIREMENTS

## HARDWARE SPECIFICATION

|  |  |  |
| --- | --- | --- |
| SL NO | HARWARE COMPONENTS | DESCRIPTION |
| 1. | HardDisk | 500GB |
| 2. | RAM | 2GB and above |

## SOFTWARE SPECIFICATION

|  |  |  |
| --- | --- | --- |
| SL NO | SOFTWARE COMPONENTS | DESCRIPTION |
| 1. | Frontend | |  | | --- | | HTML,CSS,JSP | |
| 2. | Backend | |  | | --- | | J2EE | |
| 3. | Coding Language | HTML, JSP |
| 4. | Tool | Netbeans |
| 5. | Database | MYSQL |

## CHAPTER 4

## FUNCTIONAL AND NON- FUNCTIONAL REQUIREMENTS

## 4.1 FUNCTIONAL REQUIREMENT SPECIFICATION

## To ensure the system works well, it has to support the following requirements.

* Our system has the ability to add, upload, update, download, and analyse the cloud ratio in real time across many locations.
* Data is categorized and arranged into several formats in this module. It makes it easier for the user to access the file when an incident occurs.
* Our system responds as rapidly as it can to information leaks by reacting and acting instantly.
* The suggested model is quite effective; it runs nonstop and constantly tracks system performance.
* A user must login since our module needs authentication.

Our module offers the capacity to produce cloud files as well as a ratio outlining the outcomes of the users across many clouds.

**4.2 NON FUNCTIONAL REQUIREMENT SPECIFICATION**

**Usability**

How well users can use, understand, and control the system.

* The ease with which people may utilize our system is a result of how it is suggested.
* Our technology is sophisticated enough to be used without instruction or the need for manuals.
* Our system complies with accessibility requirements.

How to make our project easy for users to access and control.

**Maintainability**

Our system has fewer, simpler components that require less maintenance.

Our system's maintainability is encouraged by:

* Architecture that is service-based and loosely linked.
* Documentation that is well written.
* Functionality has undergone extensive testing.

**Scalability**

In order to meet demand, our project can handle more clients and process data more quickly.

**Availability**

Our system is available 24 hours a day.

**Extensibility**

Users may edit, add, upload, and update files using our system without having to make any coding modifications.

For instance, altering the data or application programming interfaces.

**Security**

Our project has the ability to deny access to, usage by, or modification of their behaviour to unauthorized users while still providing service to authorized users.

**Portability**

Our system can function across several platforms.

For instance, our project provides functionality across several operating systems including desktop and mobile devices.

**Integrity**

Our coder makes sure that it doesn't use background resources or stored information.

**Serviceability**

In terms of our system's usability, serviceability refers to how simple it is for users to do tasks like data uploading, problem-solving, adding and removing files from the cloud server, and updating hardware and software.

## CHAPTER 05

## MODULE DESCRIPTION

## Data Owner

## In this module Data Owner allows the user to login and register to the application and also has an authentication of uploading files, view files, view file requests, view downloads of files without any limitations. Once the owner login to the page he has access to upload files, the uploaded files contains data owner name, file id, file name, file keyword, uploaded time and the decryption key that is being sent to the email id of the data owner who has logged in. Once after uploading the files he can also view the files being uploaded. The data owner can even view the requested files and also can view the downloaded files of the data user with file id, file name, username and with downloaded time.

## Data User

## In this module, it contains details regarding search files, requested files, view downloads and logout. Once the user registers the page the message box pops up as login success. Once the login is success it takes the user to the data user page where he can search for the file that is being uploaded and can even request the files to decrypt and download. The user can download the file by entering the decryption key sent to the email. The data user can also view the downloaded files with file id, file name, user name and downloaded file with date and time. The data user can also request the files with the action decrypt and download. After viewing the downloaded files the user can logout from the data user web page.

## Cloud

## In this module the cloud server should login with the valid email id and password. Once after login success the home page of cloud server displays as welcome with the cloud server name. In this module, it contains details regarding data owners, data users, user file requests, downloaded files, graph and logout. In this cloud server the user can view the data owners who have logged in to the page with the data owner ID, data owner name, file ID, file name, uploaded time and with the action as request. Data users are also displayed with data user ID, data user name, email, gender, date of birth and address of the user. User file requests where users can view the file requests sent by the user. Downloaded files where it displays the downloaded files with the file id, file name, username and downloaded time. It also displays the graph of the file being uploaded based on the encryption and decryption time. Once after working in this web page the user can logout from the cloud server.

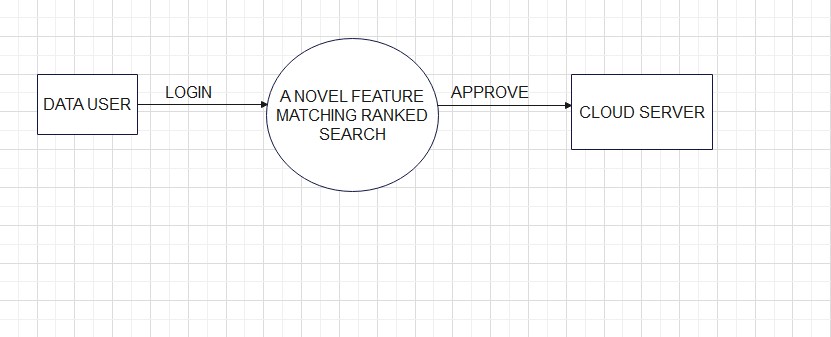
## CHAPTER 06

## DESIGN AND IMPLEMENTATION

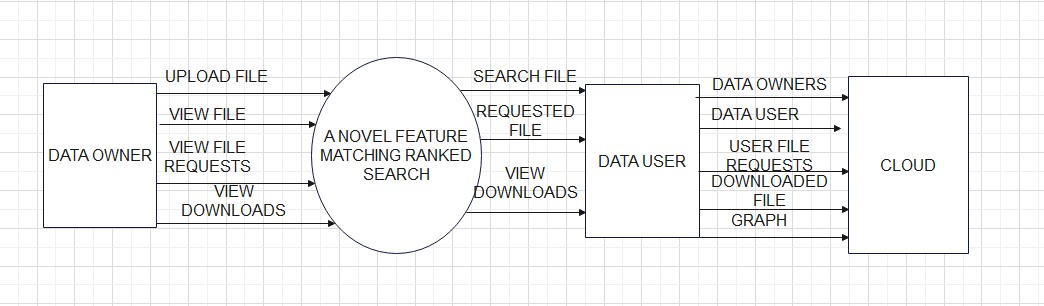
## 6.1 DATA FLOW DIAGRAM

## The DFD is also called as bubble chart. It is a simple graphical formalism that can be used to represent a system in terms of input data to the system, various processing carried out on this data, and the output data is generated by this system.

* Data flow diagram (DFD) is one of the most important modelling tools. It is used to model the system components. These components are the system process, the data used by the process, an external entity that interacts with the system and the information flows in the system.
* DFD shows how the information moves through the system and how it is modified by a series of transformations. It is a graphical technique that depicts information flow and the transformations that are applied as data moves from input to output.
* DFD is also known as bubble chart. A DFD may be used to represent a system at any level of abstraction. DFD may be partitioned into levels that represent increasing information flow and functional detail.



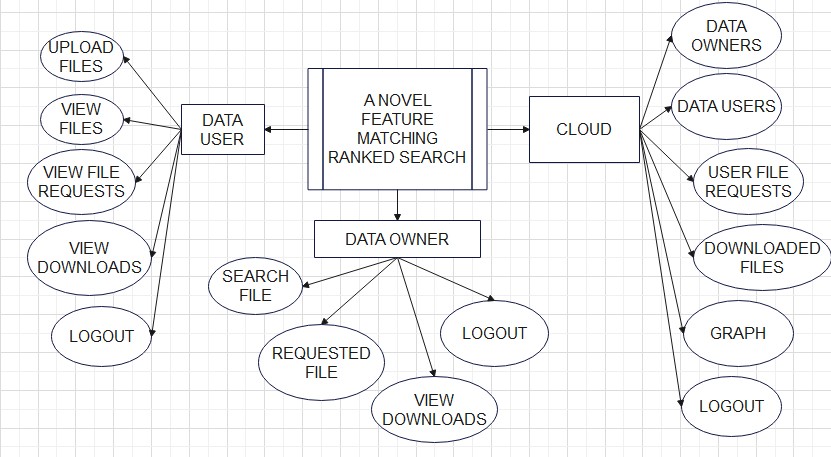
**FIGURE 1.3 DATA FLOW DIAGRAM LEVEL 0**

****

**FIGURE 1.4 DATA FLOE DIAGRAM LEVEL 1**

**6.2 ER DIAGRAM**

A graphical representation that shows relationships between individuals, things, locations, concepts, or events within an information technology (IT) system is called an entity relationship diagram (ERD), also known as an entity relationship model.



**FIGURE 1.5 ER DIAGRAM**

**6.3 UML DIAGRAMS**

UML stands for Unified Modelling Language. UML is a standardized general-purpose

modelling language in the field of object-oriented software engineering. The standard is

managed, and was created by, the Object Management Group.

The goal is for UML to become a common language for creating models of object

oriented computer software. In its current form UML is comprised of two major components:

a Meta-model and a notation. In the future, some form of method or process may also be

added to; or associated with, UML.

The Unified Modelling Language is a standard language for

specifying, Visualization,

Constructing and documenting the artifacts of software system, as well as for business

modelling and other non-software systems.

The UML represents a collection of best engineering practices that have proven

successful in the modelling of large and complex systems.

The UML is a very important part of developing object oriented software and the

software development process. The UML uses mostly graphical notations to express the design

of software projects.

**GOALS:**

The Primary goals in the design of the UML are as follows:

1. Provide users a ready-to-use, expressive visual modelling Language so that they can

develop and exchange meaningful models.

2. Provide extendibility and specialization mechanisms to extend the core concepts.

3. Be independent of particular programming languages and development process.

4. Provide a formal basis for understanding the modelling language.

5. Encourage the growth of OO tools market.

6. Support higher level development concepts such as collaborations, frameworks, patterns

and components.

7. Integrate best practices.

**USE CASE DIAGRAM**

A use case diagram in the Unified Modelling Language (UML) is a type of behavioural

diagram defined by and created from a Use-case analysis. Its purpose is to present a graphical

overview of the functionality provided by a system in terms of actors, their goals (represented

as use cases), and any dependencies between those use cases. The main purpose of a use case

diagram is to show what system functions are performed for which actor. Roles of the actors

in the system can be depicted.

## 

## FIGURE 1.6 USE CASE DIAGRAM

## 6.4 SEQUENTIAL DIAGRAM

## A sequence diagram or system sequence diagram (SSD) shows process interactions arranged in time sequence in the field of software engineering. It depicts the processes involved and the sequence of messages exchanged between the processes needed to carry out the functionality.

## 

## FIGURE 1.7 SEQUENTIAL DIAGRAM.5 FORM DESIGN

## 6.5 TABLE SCHEMA

## DATA OWNER LOGIN FORM

|  |  |
| --- | --- |
| COLUMN NAME | DATA TYPE |
| Email | nvarchar(50) |
| Password | nvarchar(50) |

## DATA OWNER REGISTRATION FORM

|  |  |
| --- | --- |
| COLUMN NAME | DATA TYPE |
| ID | nvarchar(50) |
| Name | nvarchar(50) |
| Email | nvarchar(50) |
| Date of Birth | nvarchar(50) |
| Gender | nvarchar(50) |
| Phone | nvarchar(50) |
| Password | nvarchar(50) |

## DATA OWNER FILES

|  |  |
| --- | --- |
| COLUMN NAME | DATA TYPE |
| ID | nvarchar(50) |
| Date Of Birth | nvarchar(50) |
| File name | nvarchar(50) |
| File Keyword | nvarchar(50) |
| Uploaded time | nvarchar(50) |

## DATA USER LOGIN FORM

|  |  |
| --- | --- |
| COLUMN NAME | DATA TYPE |
| Email | nvarchar(50) |
| Password | nvarchar(50) |

## DATA USER REGISTRATION FORM

|  |  |
| --- | --- |
| COLUMN NAME | DATA TYPE |
| ID | nvarchar(50) |
| Name | nvarchar(50) |
| Email | nvarchar(50) |
| Date of Birth | nvarchar(50) |
| Gender | nvarchar(50) |
| Phone | nvarchar(50) |
| Password | nvarchar(50) |

## REQUESTED FILES

|  |  |
| --- | --- |
| COLUMN NAME | DATA TYPE |
| File ID | nvarchar(50) |
| File Name | nvarchar(50) |
| Action | nvarchar(50) |

## CLOUD SERVER LOGIN

|  |  |
| --- | --- |
| COLUMN NAME | DATA TYPE |
| Email | nvarchar(50) |
| Password | nvarchar(50) |

## USER FILE REQUESTS

|  |  |
| --- | --- |
| COLUMN NAME | DATA TYPE |
| User Name | nvarchar(50) |
| File ID | nvarchar(50) |
| File Name | nvarchar(50) |

## 6.7 IMPLEMENTATION

## INDEX PAGE

## <%@page contentType="text/html" pageEncoding="UTF-8"%>

## <!DOCTYPE html>

## <html lang="en">

## <head>

## <meta charset="utf-8">

## <title>A Novel Feature Matching Ranked Search</title>

## <meta name="viewport" content="width=device-width, initial-scale=1.0" />

## <meta name="description" content="Your page description here" />

## <meta name="author" content="" />

## <!-- css -->

## <link href="css/bootstrap.css" rel="stylesheet" />

## <link href="css/bootstrap-responsive.css" rel="stylesheet" />

## <link href="css/prettyPhoto.css" rel="stylesheet" />

## <link href="https://fonts.googleapis.com/css?family=Open+Sans:300,400,600,700" rel="stylesheet">

## <link href="css/style.css" rel="stylesheet">

## <!-- Theme skin -->

## <link id="t-colors" href="color/default.css" rel="stylesheet" />

## <!-- Fav and touch icons -->

## <link rel="apple-touch-icon-precomposed" sizes="144x144" href="ico/apple-touch-icon-144-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="114x114" href="ico/apple-touch-icon-114-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="72x72" href="ico/apple-touch-icon-72-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" href="ico/apple-touch-icon-57-precomposed.png" />

## <link rel="shortcut icon" href="ico/favicon.png" />

## </head>

## <%

## if (request.getParameter("Success") != null) {

## %>

## <script>alert('Login Success');</script>

## <% }

## %>

## <body>

## <div id="wrapper">

## <!-- start header -->

## <header>

## <div class="top">

## </div>

## <div class="container">

## <div class="row nomargin">

## <div class="span4">

## <div class="logo">

## </div>

## </div>

## <div class="span8">

## <div class="navbar navbar-static-top">

## <div class="navigation">

## <nav>

## <ul class="nav topnav">

## <li class="active">

## <a href="Cloud\_Home.jsp">Home</a>

## </li>

## <li>

## <a href="View\_owners.jsp">Data Owners</a>

## </li>

## <li>

## <a href="View\_users.jsp">Data Users</a>

## </li>

## <li>

## <a href="View\_user\_req.jsp">User File Requests</a>

## </li>

## <li>

## <a href="View\_downloads.jsp">Downloaded Files</a>

## </li>

## <li>

## <a href="graph.jsp">Graph</a>

## </li>

## <li>

## <a href="index.html">Logout</a>

## </li>

## </ul>

## </nav>

## </div>

## <!-- end navigation -->

## </div>

## </div>

## </div>

## </div>

## </header>

## <section id="intro">

## <div class="intro-content">

## <h2>A Novel Feature Matching Ranked Search<br>

## Mechanism Over Encrypted Cloud Data</h2>

## </div>

## </section>

## <section id="content">

## <div class="container">

## <div class="row">

## <div class="aligncenter">

## <h3>Welcome To Cloud Server</h3><br><br>

## </div>

## <div class="span12">

## <img src="img/cloud1.jpg" />

## </div>

## </div>

## </div>

## </section>

## <div id="sub-footer">

## <div class="container">

## <div class="row">

## <center> <p>&copy; 2022</p></center>

## </div>

## </div>

## </div>

## </div>

## <a href="#" class="scrollup"><i class="icon-angle-up icon-rounded icon-bglight icon-2x"></i></a>

## <!-- javascript

## ================================================== -->

## <!-- Placed at the end of the document so the pages load faster -->

## <script src="js/jquery.js"></script>

## <script src="js/jquery.easing.1.3.js"></script>

## <script src="js/bootstrap.js"></script>

## <script src="js/modernizr.custom.js"></script>

## <script src="js/toucheffects.js"></script>

## <script src="js/google-code-prettify/prettify.js"></script>

## <script src="js/jquery.prettyPhoto.js"></script>

## <script src="js/portfolio/jquery.quicksand.js"></script>

## <script src="js/portfolio/setting.js"></script>

## <script src="js/animate.js"></script>

## <!-- Template Custom JavaScript File -->

## <script src="js/custom.js"></script>

## </body>

## </html>

## DATA OWNER PAGE

## <%--

## Document : DO\_login

## --%>

## <%@page contentType="text/html" pageEncoding="UTF-8"%>

## <!DOCTYPE html>

## <html lang="en">

## <head>

## <meta charset="utf-8">

## <title>A Novel Feature Matching Ranked Search</title>

## <meta name="viewport" content="width=device-width, initial-scale=1.0" />

## <meta name="description" content="Your page description here" />

## <meta name="author" content="" />

## <!-- css -->

## <link href="css/bootstrap.css" rel="stylesheet" />

## <link href="css/bootstrap-responsive.css" rel="stylesheet" />

## <link href="css/prettyPhoto.css" rel="stylesheet" />

## <link href="https://fonts.googleapis.com/css?family=Open+Sans:300,400,600,700" rel="stylesheet">

## <link href="css/style.css" rel="stylesheet">

## <!-- Theme skin -->

## <link id="t-colors" href="color/default.css" rel="stylesheet" />

## <!-- Fav and touch icons -->

## <link rel="apple-touch-icon-precomposed" sizes="144x144" href="ico/apple-touch-icon-144-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="114x114" href="ico/apple-touch-icon-114-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="72x72" href="ico/apple-touch-icon-72-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" href="ico/apple-touch-icon-57-precomposed.png" />

## <link rel="shortcut icon" href="ico/favicon.png" />

## </head>

## <%

## if (request.getParameter("Failed") != null) {

## %>

## <script>alert('Login Failed');</script>

## <% }

## %>

## <body>

## <div id="wrapper">

## <!-- start header -->

## <header>

## <div class="top">

## </div>

## <div class="container">

## <div class="row nomargin">

## <div class="span4">

## <div class="logo">

## </div>

## </div>

## <div class="span8">

## <div class="navbar navbar-static-top">

## <div class="navigation">

## <nav>

## <ul class="nav topnav">

## <li>

## <a href="index.html">Home</a>

## </li>

## <li>

## <a href="DO\_login.jsp">Data Owner</a>

## </li>

## <li>

## <a href="DU\_login.jsp">Data User</a>

## </li>

## <li class="active">

## <a href="Cloud\_login.jsp">Cloud</a>

## </li>

## </ul>

## </nav>

## </div>

## <!-- end navigation -->

## </div>

## </div>

## </div>

## </div>

## </header>

## <section id="intro">

## <div class="intro-content">

## <h2>A Novel Feature Matching Ranked Search<br>

## Mechanism Over Encrypted Cloud Data</h2>

## </div>

## </section>

## <section id="content">

## <div class="container">

## <div class="row">

## <div class="aligncenter">

## <h3>Cloud Server Login</h3><br><br>

## </div>

## <div class="span6">

## <img src="img/cloud\_login.jpg" />

## </div>

## <div class="span6">

## <form id="contactform" action="cloud" method="post" class="contactForm">

## <div class="row">

## <div class="span6 margintop10 field form-group">

## <label>Email ID :</label>

## <input type="text" name="name" placeholder="Enter Your Email ID" required="required" /><br>

## </div><br>

## <div class="span6 margintop10 field form-group">

## <label>Password :</label>

## <input type="password" name="pass" placeholder="Enter Your Password" required="required" /><br>

## </div><br>

## <div class="span6 margintop10 field form-group">

## <button class="btn btn-success btn-large margintop10" type="submit">Login</button>

## </div>

## </div>

## </form>

## </div>

## </div>

## </div>

## </section>

## <div id="sub-footer">

## <div class="container">

## <div class="row">

## <center> <p>&copy; 2022</p></center>

## </div>

## </div>

## </div>

## </div>

## <a href="#" class="scrollup"><i class="icon-angle-up icon-rounded icon-bglight icon-2x"></i></a>

## <!-- javascript

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## <script src="js/modernizr.custom.js"></script>

## <script src="js/toucheffects.js"></script>

## <script src="js/google-code-prettify/prettify.js"></script>

## <script src="js/jquery.prettyPhoto.js"></script>

## <script src="js/portfolio/jquery.quicksand.js"></script>

## <script src="js/portfolio/setting.js"></script>

## <script src="js/animate.js"></script>

## <!-- Template Custom JavaScript File -->

## <script src="js/custom.js"></script>

## </body>

## </html>

## DATA OWNER LOGIN PAGE

## <%@page contentType="text/html" pageEncoding="UTF-8"%>

## <!DOCTYPE html>

## <html lang="en">

## <head>

## <meta charset="utf-8">

## <title>A Novel Feature Matching Ranked Search</title>

## <meta name="viewport" content="width=device-width, initial-scale=1.0" />

## <meta name="description" content="Your page description here" />

## <meta name="author" content="" />

## <!-- css -->

## <link href="css/bootstrap.css" rel="stylesheet" />

## <link href="css/bootstrap-responsive.css" rel="stylesheet" />

## <link href="css/prettyPhoto.css" rel="stylesheet" />

## <link href="https://fonts.googleapis.com/css?family=Open+Sans:300,400,600,700" rel="stylesheet">

## <link href="css/style.css" rel="stylesheet">

## <!-- Theme skin -->

## <link id="t-colors" href="color/default.css" rel="stylesheet" />

## <!-- Fav and touch icons -->

## <link rel="apple-touch-icon-precomposed" sizes="144x144" href="ico/apple-touch-icon-144-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="114x114" href="ico/apple-touch-icon-114-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="72x72" href="ico/apple-touch-icon-72-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" href="ico/apple-touch-icon-57-precomposed.png" />

## <link rel="shortcut icon" href="ico/favicon.png" />

## </head>

## <%

## if (request.getParameter("Success") != null) {

## %>

## <script>alert('Login Success');</script>

## <% }

## %>

## <body>

## <div id="wrapper">

## <!—start header -->

## <header>

## <div class="top">

## </div>

## <div class="container">

## <div class="row nomargin">

## <div class="span4">

## <div class="logo">

## </div>

## </div>

## <div class="span8">

## <div class="navbar navbar-static-top">

## <div class="navigation">

## <nav>

## <ul class="nav topnav">

## <li class="active">

## <a href="DO\_Home.jsp">Home</a>

## </li>

## <li>

## <a href="Upload\_file.jsp">Upload File</a>

## </li>

## <li>

## <a href="View\_uploads.jsp">View Files</a>

## </li>

## <li>

## <a href="View\_filereq.jsp">View File Requests</a>

## </li>

## <li>

## <a href="View\_downloads1.jsp">View Downloads</a>

## </li>

## <li>

## <a href="index.html">Logout</a>

## </li>

## </ul>

## </nav>

## </div>

## <!-- end navigation -->

## </div>

## </div>

## </div>

## </div>

## </header>

## <section id="intro">

## <div class="intro-content">

## <h2>A Novel Feature Matching Ranked Search<br>

## Mechanism Over Encrypted Cloud Data</h2>

## </div>

## </section>

## <%

## String id = (String) session.getAttribute("doid");

## String name = (String) session.getAttribute("doname");

## String email = (String) session.getAttribute("domail");

## %>

## <section id="content">

## <div class="container">

## <div class="row">

## <div class="aligncenter">

## <h3>Welcome <%=name.toUpperCase()%>!</h3><br><br>

## </div>

## <div class="span12">

## <img src="img/dohome.jpg" />

## </div>

## </div>

## </div>

## </section>

## <div id="sub-footer">

## <div class="container">

## <div class="row">

## <center> <p>&copy; 2022</p></center>

## </div>

## </div>

## </div>

## </div>

## <a href="#" class="scrollup"><i class="icon-angle-up icon-rounded icon-bglight icon-2x"></i></a>

## <!-- javascript

## ================================================== -->

## <!-- Placed at the end of the document so the pages load faster -->

## <script src="js/jquery.js"></script>

## <script src="js/jquery.easing.1.3.js"></script>

## <script src="js/bootstrap.js"></script>

## <script src="js/modernizr.custom.js"></script>

## <script src="js/toucheffects.js"></script>

## <script src="js/google-code-prettify/prettify.js"></script>

## <script src="js/jquery.prettyPhoto.js"></script>

## <script src="js/portfolio/jquery.quicksand.js"></script>

## <script src="js/portfolio/setting.js"></script>

## <script src="js/animate.js"></script>

## <!-- Template Custom JavaScript File -->

## <script src="js/custom.js"></script>

## </body>

## </html>

## DOWNLOAD PAGE

## <%@page contentType="text/html" pageEncoding="UTF-8"%>

## <%@page import="java.sql.ResultSet"%>

## <%@page import="java.sql.Statement"%>

## <%@page import="java.sql.Connection"%>

## <%@page import="DBconnection.SQLconnection"%>

## <!DOCTYPE html>

## <html lang="en">

## <head>

## <meta charset="utf-8">

## <title>A Novel Feature Matching Ranked Search</title>

## <meta name="viewport" content="width=device-width, initial-scale=1.0" />

## <meta name="description" content="Your page description here" />

## <meta name="author" content="" />

## <!-- css -->

## <link href="css/bootstrap.css" rel="stylesheet" />

## <link href="css/bootstrap-responsive.css" rel="stylesheet" />

## <link href="css/prettyPhoto.css" rel="stylesheet" />

## <link href="https://fonts.googleapis.com/css?family=Open+Sans:300,400,600,700" rel="stylesheet">

## <link href="css/style.css" rel="stylesheet">

## <!-- Theme skin -->

## <link id="t-colors" href="color/default.css" rel="stylesheet" />

## <!-- Fav and touch icons -->

## <link rel="apple-touch-icon-precomposed" sizes="144x144" href="ico/apple-touch-icon-144-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="114x114" href="ico/apple-touch-icon-114-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="72x72" href="ico/apple-touch-icon-72-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" href="ico/apple-touch-icon-57-precomposed.png" />

## <link rel="shortcut icon" href="ico/favicon.png" />

## </head>

## <body>

## <div id="wrapper">

## <!-- start header -->

## <header>

## <div class="top">

## </div>

## <div class="container">

## <div class="row nomargin">

## <div class="span4">

## <div class="logo">

## </div>

## </div>

## <div class="span8">

## <div class="navbar navbar-static-top">

## <div class="navigation">

## <nav>

## <ul class="nav topnav">

## <li>

## <a href="DU\_Home.jsp">Home</a>

## </li>

## <li>

## <a href="Search\_file.jsp">Search File</a>

## </li>

## <li class="active">

## <a href="Requested\_files.jsp">Requested Files</a>

## </li>

## <li>

## <a href="View\_downloads1.jsp">View Downloads</a>

## </li>

## <li>

## <a href="index.html">Logout</a>

## </li>

## </ul>

## </nav>

## </div>

## <!-- end navigation -->

## </div>

## </div>

## </div>

## </div>

## </header>

## <section id="intro">

## <div class="intro-content">

## <h2>A Novel Feature Matching Ranked Search<br>

## Mechanism Over Encrypted Cloud Data</h2>

## </div>

## </section>

## <section id="content">

## <div class="container">

## <div class="row">

## <div class="aligncenter">

## <h3>Download File</h3><br><br>

## </div>

## <div class="span5">

## <img src="img/download.png" />

## </div>

## <%

## String fileid = request.getParameter("fileid");

## String filename = request.getParameter("filename");

## Connection con = SQLconnection.getconnection();

## Statement st = con.createStatement();

## Statement st1 = con.createStatement();

## try {

## ResultSet rs1 = st1.executeQuery("Select \* from do\_files where filename ='" + filename + "' AND id ='" + fileid + "' ");

## while (rs1.next()) {

## %>

## <div class="span6">

## <form id="contactform" action="download" method="post" class="contactForm">

## <div class="row">

## <div class="span6 margintop10 field form-group"> P a g e | 85

## <input type="text" name="fileid" value="<%=fileid%>" readonly=""/><br>

## </div><br>

## <div class="span6 margintop10 field form-group">

## <input type="text" name="filename" value="<%=filename%>" readonly=""/><br>

## </div><br>

## <div class="span6 margintop10 field form-group">

## <textarea readonly="" style="height: 150px;" autocomplete="off" ><%=rs1.getString("enc\_data")%></textarea><br>

## </div><br>

## <div class="span6 margintop10 field form-group">

## <input type="text" name="dkey" required="required" placeholder="Enter Decryption Key" autocomplete="off" /><br><br>

## </div><br>

## <div class="span6 margintop10 field form-group">

## <button class="btn btn-primary btn-large margintop10" type="submit">Download</button>

## </div>

## </div>

## </form>

## </div>

## <% }

## } catch (Exception ex) {

## ex.printStackTrace();

## }

## %>

## </div>

## </div>

## </section>

## <div id="sub-footer">

## <div class="container">

## <div class="row">

## <center> <p>&copy; 2022</p></center>

## </div>

## </div>

## </div>

## </div>

## <a href="#" class="scrollup"><i class="icon-angle-up icon-rounded icon-bglight icon-2x"></i></a>

## <!-- javascript

## ================================================== -->

## <!-- Placed at the end of the document so the pages load faster -->

## <script src="js/jquery.js"></script>

## <script src="js/jquery.easing.1.3.js"></script>

## <script src="js/bootstrap.js"></script>

## <script src="js/modernizr.custom.js"></script>

## <script src="js/toucheffects.js"></script>

## <script src="js/google-code-prettify/prettify.js"></script>

## <script src="js/jquery.prettyPhoto.js"></script>

## <script src="js/portfolio/jquery.quicksand.js"></script>

## <script src="js/portfolio/setting.js"></script>

## <script src="js/animate.js"></script>

## <!-- Template Custom JavaScript File -->

## <script src="js/custom.js"></script>

## </body>

## </html>

## REQUESTED FILES

## <%@page import="java.sql.ResultSet"%>

## <%@page import="java.sql.Statement"%>

## <%@page import="DBconnection.SQLconnection"%>

## <%@page import="java.sql.Connection"%>

## <%@page contentType="text/html" pageEncoding="UTF-8"%>

## <!DOCTYPE html>

## <html lang="en">

## <head>

## <meta charset="utf-8">

## <title>A Novel Feature Matching Ranked Search</title>

## <meta name="viewport" content="width=device-width, initial-scale=1.0" />

## <meta name="description" content="Your page description here" />

## <meta name="author" content="" />

## <!-- css -->

## <link href="css/bootstrap.css" rel="stylesheet" />

## <link href="css/bootstrap-responsive.css" rel="stylesheet" />

## <link href="css/prettyPhoto.css" rel="stylesheet" />

## <link href="https://fonts.googleapis.com/css?family=Open+Sans:300,400,600,700" rel="stylesheet">

## <link href="css/style.css" rel="stylesheet">

## <!-- Theme skin -->

## <link id="t-colors" href="color/default.css" rel="stylesheet" />

## <!-- Fav and touch icons -->

## <link rel="apple-touch-icon-precomposed" sizes="144x144" href="ico/apple-touch-icon-144-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="114x114" href="ico/apple-touch-icon-114-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="72x72" href="ico/apple-touch-icon-72-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" href="ico/apple-touch-icon-57-precomposed.png" />

## <link rel="shortcut icon" href="ico/favicon.png" />

## </head>

## <body>

## <div id="wrapper">

## <!-- start header -->

## <header>

## <div class="top">

## </div>

## <div class="container">

## <div class="row nomargin">

## <div class="span4">

## <div class="logo">

## </div>

## </div>

## <div class="span8">

## <div class="navbar navbar-static-top">

## <div class="navigation">

## <nav>

## <ul class="nav topnav">

## <li>

## <a href="DU\_Home.jsp">Home</a> P a g e | 89

## </li>

## <li>

## <a href="Search\_file.jsp">Search File</a>

## </li>

## <li class="active">

## <a href="Requested\_files.jsp">Requested Files</a>

## </li>

## <li>

## <a href="View\_downloads2.jsp">View Downloads</a>

## </li>

## <li>

## <a href="index.html">Logout</a>

## </li>

## </ul>

## </nav>

## </div>

## <!-- end navigation -->

## </div>

## </div>

## </div>

## </div>

## </header>

## <section id="intro">

## <div class="intro-content">

## <h2>A Novel Feature Matching Ranked Search<br>

## Mechanism Over Encrypted Cloud Data</h2>

## </div>

## </section>

## <section id="content">

## <div class="container">

## <div class="row">

## <div class="aligncenter">

## <h3>Requested Files</h3><br><br>

## </div>

## <table class="table table-bordered">

## <thead>

## <tr>

## <th>File ID</th>

## <th>File Name</th>

## <th>Uploaded Time</th>

## <th>Action</th>

## </tr>

## </thead>

## <%

## String duid = (String) session.getAttribute("duid");

## Connection con = SQLconnection.getconnection();

## Statement st = con.createStatement();

## Statement st1 = con.createStatement();

## try {

## ResultSet rs = st1.executeQuery("Select \* from request where status = 'Approved' AND uid = '" + duid + "' ");

## while (rs.next()) {

## %>

## <tbody>

## <tr>

## <td><%=rs.getString("fileid")%></td> P a g e | 91

## <td><%=rs.getString("filename")%></td>

## <td><%=rs.getString("time")%></td>

## <td><a class="btn btn-color" href="Download.jsp?fileid=<%=rs.getString("fileid")%>&filename=<%=rs.getString("filename")%>">Decrypt & Download</a></td>

## </tr>

## </tbody>

## <% }

## } catch (Exception ex) {

## ex.printStackTrace();

## }

## %>

## </table>

## </div>

## </div>

## </section>

## <div id="sub-footer">

## <div class="container">

## <div class="row">

## <center> <p>&copy; 2022</p></center>

## </div>

## </div>

## </div>

## </div>

## <a href="#" class="scrollup"><i class="icon-angle-up icon-rounded icon-bglight icon-2x"></i></a>

## <!-- javascript

## ================================================== -->

## <!-- Placed at the end of the document so the pages load faster -->

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## <script src="js/jquery.easing.1.3.js"></script>

## <script src="js/bootstrap.js"></script>

## <script src="js/modernizr.custom.js"></script>

## <script src="js/toucheffects.js"></script>

## <script src="js/google-code-prettify/prettify.js"></script>

## <script src="js/jquery.prettyPhoto.js"></script>

## <script src="js/portfolio/jquery.quicksand.js"></script>

## <script src="js/portfolio/setting.js"></script>

## <script src="js/animate.js"></script>

## <!-- Template Custom JavaScript File -->

## <script src="js/custom.js"></script>

## </body>

## </html>

## SEARCH ACTION FORM

## <%@page contentType="text/html" pageEncoding="UTF-8"%>

## <%@page import="java.sql.ResultSet"%>

## <%@page import="java.sql.Statement"%>

## <%@page import="java.sql.Connection"%>

## <%@page import="DBconnection.SQLconnection"%>

## <!DOCTYPE html>

## <html lang="en">

## <head>

## <meta charset="utf-8">

## <title>A Novel Feature Matching Ranked Search</title>

## <meta name="viewport" content="width=device-width, initial-scale=1.0" />

## <meta name="description" content="Your page description here" />

## <meta name="author" content="" />

## <!-- css -->

## <link href="css/bootstrap.css" rel="stylesheet" />

## <link href="css/bootstrap-responsive.css" rel="stylesheet" />

## <link href="css/prettyPhoto.css" rel="stylesheet" />

## <link href="https://fonts.googleapis.com/css?family=Open+Sans:300,400,600,700" rel="stylesheet">

## <link href="css/style.css" rel="stylesheet">

## <!-- Theme skin -->

## <link id="t-colors" href="color/default.css" rel="stylesheet" />

## <!-- Fav and touch icons -->

## <link rel="apple-touch-icon-precomposed" sizes="144x144" href="ico/apple-touch-icon-144-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="114x114" href="ico/apple-touch-icon-114-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="72x72" href="ico/apple-touch-icon-72-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" href="ico/apple-touch-icon-57-precomposed.png" />

## <link rel="shortcut icon" href="ico/favicon.png" />

## </head>

## <body>

## <div id="wrapper">

## <!-- start header -->

## <header>

## <div class="top">

## </div>

## <div class="container">

## <div class="row nomargin">

## <div class="span4">

## <div class="logo">

## </div>

## </div>

## <div class="span8">

## <div class="navbar navbar-static-top">

## <div class="navigation">

## <nav>

## <ul class="nav topnav">

## <li>

## <a href="DU\_Home.jsp">Home</a>

## </li>

## <li class="active">

## <a href="Search\_file.jsp">Search File</a>

## </li>

## <li>

## <a href="Requested\_files.jsp">Requested Files</a>

## </li>

## <li>

## <a href="View\_downloads2.jsp">View Downloads</a>

## </li>

## <li>

## <a href="index.html">Logout</a>

## </li>

## </ul>

## </nav>

## </div>

## <!-- end navigation -->

## </div>

## </div>

## </div>

## </div>

## </header>

## <section id="intro">

## <div class="intro-content">

## <h2>A Novel Feature Matching Ranked Search<br>

## Mechanism Over Encrypted Cloud Data</h2>

## </div>

## </section>

## <section id="content">

## <div class="container">

## <div class="row">

## <div class="aligncenter">

## <h3>Data Owners</h3><br><br>

## </div>

## <table class="table table-bordered">

## <thead>

## <tr>

## <th>Data Owner ID</th>

## <th>Data Owner Name</th>

## <th>File ID</th>

## <th>File Name</th>

## <th>Uploaded Time</th>

## <th>Action</th>

## </tr>

## </thead>

## <%

## String id = (String) session.getAttribute("duid");

## String name = (String) session.getAttribute("duname");

## String email = (String) session.getAttribute("dumail");

## String keyword = request.getParameter("keyword");

## Connection con = SQLconnection.getconnection();

## Statement st = con.createStatement();

## try {

## ResultSet rs = st.executeQuery("Select \* from do\_files WHERE filekeyword LIKE '%" + keyword + "%' ");

## while (rs.next()) {

## %>

## <tbody>

## <tr>

## <td><%=rs.getString("doid")%></td>

## <td><%=rs.getString("doname")%></td>

## <td><%=rs.getString("id")%></td>

## <td><%=rs.getString("filename")%></td>

## <td><%=rs.getString("time")%></td>

## <td><a class="btn btn-primary" href="file\_req.jsp?doid=<%=rs.getString("doid")%>&fileid=<%=rs.getString("id")%>&filename=<%=rs.getString("filename")%>&doname=<%=rs.getString("doname")%>">Request</a></td>

## </tr>

## </tbody>

## <% }

## } catch (Exception ex) {

## ex.printStackTrace();

## }

## %>

## </table>

## </div>

## </div>

## </section>

## <div id="sub-footer">

## <div class="container">

## <div class="row">

## <center> <p>&copy; 2023</p></center>

## </div>

## </div>

## </div>

## </div>

## <a href="#" class="scrollup"><i class="icon-angle-up icon-rounded icon-bglight icon-2x"></i></a>

## <!-- javascript

## ================================================== -->

## <!-- Placed at the end of the document so the pages load faster -->

## <script src="js/jquery.js"></script>

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## <script src="js/bootstrap.js"></script>

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## <script src="js/toucheffects.js"></script>

## <script src="js/google-code-prettify/prettify.js"></script>

## <script src="js/jquery.prettyPhoto.js"></script>

## <script src="js/portfolio/jquery.quicksand.js"></script>

## <script src="js/portfolio/setting.js"></script>

## <script src="js/animate.js"></script>

## <!-- Template Custom JavaScript File -->

## <script src="js/custom.js"></script>

## </body>

## </html>

## UPLOAD FILE

## <%@page contentType="text/html" pageEncoding="UTF-8"%>

## <!DOCTYPE html>

## <html lang="en">

## <head>

## <meta charset="utf-8">

## <title>A Novel Feature Matching Ranked Search</title>

## <meta name="viewport" content="width=device-width, initial-scale=1.0" />

## <meta name="description" content="Your page description here" />

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## <!-- Theme skin -->

## <link id="t-colors" href="color/default.css" rel="stylesheet" />

## <!-- Fav and touch icons -->

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## <link rel="apple-touch-icon-precomposed" sizes="114x114" href="ico/apple-touch-icon-114-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="72x72" href="ico/apple-touch-icon-72-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" href="ico/apple-touch-icon-57-precomposed.png" />

## <link rel="shortcut icon" href="ico/favicon.png" />

## </head>

## <%

## if (request.getParameter("File\_uploaded") != null) {

## %>

## <script>alert('File uploaded Successfully');</script>

## <% }

## %>

## <body>

## <div id="wrapper">

## <!-- start header -->

## <header>

## <div class="top">

## </div>

## <div class="container">

## <div class="row nomargin">

## <div class="span4">

## <div class="logo">

## </div>

## </div>

## <div class="span8">

## <div class="navbar navbar-static-top">

## <div class="navigation">

## <nav>

## <ul class="nav topnav">

## <li>

## <a href="DO\_Home.jsp">Home</a>

## </li>

## <li class="active">

## <a href="Upload\_file.jsp">Upload File</a>

## </li>

## <li>

## <a href="View\_uploads.jsp">View Files</a>

## </li>

## <li>

## <a href="View\_filereq.jsp">View File Requests</a>

## </li>

## <li>

## <a href="View\_downloads1.jsp">View Downloads</a>

## </li>

## <li>

## <a href="index.html">Logout</a>

## </li>

## </ul>

## </nav>

## </div>

## <!-- end navigation -->

## </div>

## </div>

## </div>

## </div>

## </header>

## <section id="intro">

## <div class="intro-content">

## <h2>A Novel Feature Matching Ranked Search<br>

## Mechanism Over Encrypted Cloud Data</h2>

## </div>

## </section>

## <section id="content">

## <div class="container">

## <div class="row">

## <div class="aligncenter">

## <h3>Upload File</h3><br><br>

## </div>

## <div class="span4">

## <img src="img/upload.png" />

## </div>

## <div class="span6">

## <form id="contactform" action="upload" method="post" enctype="multipart/form-data" class="contactForm">

## <div class="row">

## <div class="span6 margintop10 field form-group">

## <label>Enter Multiple File Keyword :</label>

## <input type="text" name="keyword" placeholder="eg : file, keyword" required="required" /><br>

## </div><br>

## <div class="span6 margintop10 field form-group">

## <label>Select File :</label>

## <input type="file" name="fileToUpload" required="required" /><br>

## </div><br>

## <div class="span6 margintop10 field form-group">

## <button class="btn btn-success btn-large margintop10" type="submit">Upload</button>

## </div>

## </div>

## </form>

## </div>

## </div>

## </div>

## </section>

## <div id="sub-footer">

## <div class="container">

## <div class="row">

## <center> <p>&copy; 2023</p></center>

## </div>

## </div>

## </div>

## </div>

## <a href="#" class="scrollup"><i class="icon-angle-up icon-rounded icon-bglight icon-2x"></i></a>

## <!-- javascript

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## <!-- Placed at the end of the document so the pages load faster -->

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## <script src="js/google-code-prettify/prettify.js"></script>

## <script src="js/jquery.prettyPhoto.js"></script>

## <script src="js/portfolio/jquery.quicksand.js"></script>

## <script src="js/portfolio/setting.js"></script>

## <script src="js/animate.js"></script>

## <!-- Template Custom JavaScript File -->

## <script src="js/custom.js"></script>

## </body>

## </html>

## APPROVE FORM

## <%@page import="Networks.Mail"%>

## <%@page import="java.util.Date"%>

## <%@page import="java.text.SimpleDateFormat"%>

## <%@page import="java.text.DateFormat"%>

## <%@page import="java.sql.ResultSet"%>

## <%@page import="java.sql.Statement"%>

## <%@page import="DBconnection.SQLconnection"%>

## <%@page import="java.sql.Connection"%>

## <%@page contentType="text/html" pageEncoding="UTF-8"%>

## <%

## String uname = request.getParameter("uname");

## String uid = request.getParameter("uid");

## String fileid = request.getParameter("fileid");

## String filename = request.getParameter("filename");

## Connection con = SQLconnection.getconnection();

## Statement st = con.createStatement();

## Statement st1 = con.createStatement();

## Statement sto = con.createStatement();

## try {

## ResultSet rs1 = st1.executeQuery("SELECT \* FROM request where uid='" + uid + "' AND uname='" + uname + "' AND filename='" + filename + "'");

## if (rs1.next()) {

## String umail = rs1.getString("umail");

## String Dkey = rs1.getString("dkey");

## String msggg = "File Name: " + filename + " \nFile Secret Key : " + Dkey + "";

## Mail ma = new Mail();

## ma.secretMail(msggg, "Secret\_Key", umail);

## System.out.println("success");

## int i = st.executeUpdate("update request set status ='Approved' where uname='" + uname + "' AND fileid ='" + fileid + "' AND filename='" + filename + "'");

## if (i != 0) {

## response.sendRedirect("View\_filereq.jsp?File\_approved");

## } else {

## response.sendRedirect("View\_filereq.jsp?Failed");

## }

## } else {

## response.sendRedirect("View\_filereq.jsp?Failed");

## }

## } catch (Exception ex) {

## ex.printStackTrace();

## }

## %>

## VIEW UPLOADS FORM

## <%@page import="java.sql.ResultSet"%>

## <%@page import="java.sql.Statement"%>

## <%@page import="DBconnection.SQLconnection"%>

## <%@page import="java.sql.Connection"%>

## <%@page contentType="text/html" pageEncoding="UTF-8"%>

## <!DOCTYPE html>

## <html lang="en">

## <head>

## <meta charset="utf-8">

## <title>A Novel Feature Matching Ranked Search</title>

## <meta name="viewport" content="width=device-width, initial-scale=1.0" />

## <meta name="description" content="Your page description here" />

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## <!-- css -->

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## <link href="css/style.css" rel="stylesheet">

## <!-- Theme skin -->

## <link id="t-colors" href="color/default.css" rel="stylesheet" />

## <!-- Fav and touch icons -->

## <link rel="apple-touch-icon-precomposed" sizes="144x144" href="ico/apple-touch-icon-144-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="114x114" href="ico/apple-touch-icon-114-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="72x72" href="ico/apple-touch-icon-72-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" href="ico/apple-touch-icon-57-precomposed.png" />

## <link rel="shortcut icon" href="ico/favicon.png" />

## </head>

## <body>

## <div id="wrapper">

## <!-- start header -->

## <header>

## <div class="top">

## </div>

## <div class="container">

## <div class="row nomargin">

## <div class="span4">

## <div class="logo">

## </div>

## </div>

## <div class="span8">

## <div class="navbar navbar-static-top">

## <div class="navigation">

## <nav>

## <ul class="nav topnav">

## <li>

## <a href="DO\_Home.jsp">Home</a>

## </li>

## <li>

## <a href="Upload\_file.jsp">Upload File</a>

## </li>

## <li class="active">

## <a href="View\_uploads.jsp">View Files</a>

## </li>

## <li>

## <a href="View\_filereq.jsp">View File Requests</a>

## </li>

## <li>

## <a href="View\_downloads1.jsp">View Downloads</a>

## </li>

## <li>

## <a href="index.html">Logout</a>

## </li>

## </ul>

## </nav>

## </div>

## <!-- end navigation -->

## </div>

## </div>

## </div>

## </div>

## </header>

## <section id="intro">

## <div class="intro-content">

## <h2>A Novel Feature Matching Ranked Search<br>

## Mechanism Over Encrypted Cloud Data</h2>

## </div>

## </section>

## <section id="content">

## <div class="container">

## <div class="row">

## <div class="aligncenter">

## <h3>Uploaded Files</h3><br><br>

## </div>

## <table class="table table-bordered">

## <thead>

## <tr>

## <th>Data Owner Name</th>

## <th>File ID</th>

## <th>File Name</th>

## <th>File Keyword</th>

## <th>Uploaded Time</th>

## <th>D KEY</th>

## </tr>

## </thead>

## <%

## String doid = (String) session.getAttribute("doid");

## Connection con = SQLconnection.getconnection();

## Statement st = con.createStatement();

## try {

## ResultSet rs = st.executeQuery("Select \* from do\_files where doid ='" + doid + "' ");

## while (rs.next()) {

## %>

## <tbody>

## <tr>

## <td><%=rs.getString("doname")%></td>

## <td><%=rs.getString("id")%></td>

## <td><%=rs.getString("filename")%></td>

## <td><%=rs.getString("filekeyword")%></td>

## <td><%=rs.getString("time")%></td>

## <td><%=rs.getString("dkey")%></td>

## </tr>

## </tbody>

## <% }

## } catch (Exception ex) {

## ex.printStackTrace();

## }

## %>

## </table>

## </div>

## </div>

## </section>

## <div id="sub-footer">

## <div class="container">

## <div class="row">

## <center> <p>&copy; 2023</p></center>

## </div>

## </div>

## </div>

## </div>

## <a href="#" class="scrollup"><i class="icon-angle-up icon-rounded icon-bglight icon-2x"></i></a>

## <!-- javascript

## ================================================== -->

## <!-- Placed at the end of the document so the pages load faster -->

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## <script src="js/portfolio/jquery.quicksand.js"></script>

## <script src="js/portfolio/setting.js"></script>

## <script src="js/animate.js"></script>

## <!-- Template Custom JavaScript File -->

## <script src="js/custom.js"></script>

## </body>

## </html>

## FILE REQUEST FORM

## <%@page import="Networks.Mail"%>

## <%@page import="java.text.SimpleDateFormat"%>

## <%@page import="java.util.Date"%>

## <%@page import="java.text.DateFormat"%>

## <%@page import="java.security.SecureRandom"%>

## <%@page import="java.util.Random"%>

## <%@page import="java.sql.ResultSet"%>

## <%@page import="java.sql.Statement"%>

## <%@page import="DBconnection.SQLconnection"%>

## <%@page import="java.sql.Connection"%>

## <%@page contentType="text/html" pageEncoding="UTF-8"%>

## <%

## String doid = request.getParameter("doid");

## String fileid = request.getParameter("fileid");

## String doname = request.getParameter("doname");

## String filename = request.getParameter("filename");

## String uid = (String) session.getAttribute("duid");

## String uname = (String) session.getAttribute("duname");

## String umail = (String) session.getAttribute("dumail");

## System.out.println("Check fileid And filename : " + fileid + filename);

## Connection con = SQLconnection.getconnection();

## Statement st = con.createStatement();

## Statement st1 = con.createStatement();

## Statement sto = con.createStatement();

## DateFormat dateFormat = new SimpleDateFormat("yyyy/MM/dd HH:mm:ss");

## Date date = new Date();

## String time = dateFormat.format(date);

## System.out.println("Date and Time : " + time);

## try {

## ResultSet rs = st.executeQuery("SELECT \* FROM do\_files where doid='" + doid + "' AND id='" + fileid + "' AND filename='" + filename + "'");

## if (rs.next()) {

## String dkey = rs.getString("dkey");

## int i = sto.executeUpdate("INSERT into request(fileid, filename, time, status, uname, uid, umail, doid, do\_name, dkey) values('" + fileid + "','" + filename + "','" + time + "','waiting', '" + uname + "', '" + uid + "','" + umail + "', '" + doid + "','" + doname + "','" + dkey + "')");

## if (i != 0) {

## response.sendRedirect("Search\_file.jsp?Request\_sent");

## }

## } else {

## response.sendRedirect("Search\_file.jsp?Failed");

## }

## } catch (Exception ex) {

## ex.printStackTrace();

## }

## %>

## GRAPH PAGE

## <%@page contentType="text/html" pageEncoding="UTF-8"%>

## <%@page import="java.sql.SQLException"%>

## <%@page import="java.util.HashMap"%>

## <%@page import="java.util.ArrayList"%>

## <%@page import="java.util.List"%>

## <%@page import="java.util.Map"%>

## <%@page import="java.sql.ResultSet"%>

## <%@page import="DBconnection.SQLconnection"%>

## <%@page import="java.sql.Statement"%>

## <%@page import="java.sql.Connection"%>

## <%@page import="com.google.gson.Gson"%>

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## <link rel="apple-touch-icon-precomposed" sizes="114x114" href="ico/apple-touch-icon-114-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="72x72" href="ico/apple-touch-icon-72-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" href="ico/apple-touch-icon-57-precomposed.png" />

## <link rel="shortcut icon" href="ico/favicon.png" />

## </head>

## <body>

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## </div>

## <div class="container">

## <div class="row nomargin">

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## </div>

## </div>

## <div class="span8">

## <div class="navbar navbar-static-top">

## <div class="navigation">

## <nav>

## <ul class="nav topnav">

## <li>

## <a href="Cloud\_Home.jsp">Home</a>

## </li>

## <li>

## <a href="View\_owners.jsp">Data Owners</a>

## </li>

## <li>

## <a href="View\_users.jsp">Data Users</a>

## </li>

## <li>

## <a href="View\_user\_req.jsp">User File Requests</a>

## </li>

## <li>

## <a href="View\_downloads.jsp">Downloaded Files</a>

## </li>

## <li class="active">

## <a href="graph.jsp">Graph</a>

## </li>

## <li>

## <a href="index.html">Logout</a>

## </li>

## </ul>

## </nav>

## </div>

## <!-- end navigation -->

## </div>

## </div>

## </div>

## </div>

## </header>

## <section id="intro">

## <div class="intro-content">

## <h2>A Novel Feature Matching Ranked Search<br>

## Mechanism Over Encrypted Cloud Data</h2>

## </div>

## </section>

## <section id="content">

## <div class="container">

## <div class="row">

## <div class="aligncenter">

## <h3>Analysis</h3><br><br>

## </div>

## <%

## String val1 = "", val2 = "", val3 = "";

## String val11 = "", val22 = "", val33 = "";

## int i = 0;

## try {

## Connection con = SQLconnection.getconnection();

## Statement st1 = con.createStatement();

## ResultSet rs2 = st1.executeQuery("SELECT AVG(enc\_time) FROM do\_files ");

## rs2.next();

## {

## val2 = rs2.getString("AVG(enc\_time)");

## }

## rs2.close();

## Statement st2 = con.createStatement();

## ResultSet rs3 = st2.executeQuery("SELECT AVG(decrypt\_time) FROM download ");

## rs3.next();

## {

## val3 = rs3.getString("AVG(decrypt\_time)");

## }

## System.out.println("count------------------> " + val2);

## System.out.println("count------------------> " + val3);

## } catch (Exception ex) {

## ex.printStackTrace();

## }

## %>

## <script type="text/javascript">

## window.onload = function () {

## var chart = new CanvasJS.Chart("chartContainer", {

## animationEnabled: true,

## exportEnabled: true,

## theme: "light2", // "light1", "light2", "dark1", "dark2"

## title: {

## text: ""

## },

## axisY: {

## title: "Time in MS"

## },

## data: [{

## type: "column",

## showInLegend: true,

## legendMarkerColor: "grey",

## legendText: "Entities",

## dataPoints: [

## {y: <%=val2%>, label: "Avg Encryption\_Time in MS"},

## {y: <%=val3%>, label: "Avg Decryption\_Time in MS"}

## ]

## }]

## });

## chart.render();

## }

## </script>

## <div id="chartContainer" style="height: 370px; max-width: 920px; margin: 0px auto;"></div>

## </div>

## </div>

## </section>

## <div id="sub-footer">

## <div class="container">

## <div class="row">

## <center> <p>&copy; 2023</p></center>

## </div>

## </div>

## </div>

## </div>

## <a href="#" class="scrollup"><i class="icon-angle-up icon-rounded icon-bglight icon-2x"></i></a>

## <!-- javascript

## ================================================== -->

## <!-- Placed at the end of the document so the pages load faster -->

## <script type="text/javascript" src="assets/js/custom.js"></script>

## <script src="https://canvasjs.com/assets/script/canvasjs.min.js"></script>

## <!-- About us Skills Circle progress -->

## <script>

## // First circle

## new Circlebar({

## element: "#circle-1",

## type: "progress",

## maxValue: "90"

## });

## // Second circle

## new Circlebar({

## element: "#circle-2",

## type: "progress",

## maxValue: "84"

## });

## // Third circle

## new Circlebar({

## element: "#circle-3",

## type: "progress",

## maxValue: "60"

## });

## // Fourth circle

## new Circlebar({

## element: "#circle-4",

## type: "progress",

## maxValue: "74"

## });

## </script>

## <script src="chart/graph.js"></script>

## <script src="js/jquery.js"></script>

## <script src="js/jquery.easing.1.3.js"></script>

## <script src="js/bootstrap.js"></script>

## <script src="js/modernizr.custom.js"></script>

## <script src="js/toucheffects.js"></script>

## <script src="js/google-code-prettify/prettify.js"></script>

## <script src="js/jquery.prettyPhoto.js"></script>

## <script src="js/portfolio/jquery.quicksand.js"></script>

## <script src="js/portfolio/setting.js"></script>

## <script src="js/animate.js"></script>

## <!-- Template Custom JavaScript File -->

## <script src="js/custom.js"></script>

## </body>

## </html>

## CLOUD PAGE

## <%@page contentType="text/html" pageEncoding="UTF-8"%>

## <!DOCTYPE html>

## <html lang="en">

## <head>

## <meta charset="utf-8">

## <title>A Novel Feature Matching Ranked Search</title>

## <meta name="viewport" content="width=device-width, initial-scale=1.0" />

## <meta name="description" content="Your page description here" />

## <meta name="author" content="" />

## <!-- css -->

## <link href="css/bootstrap.css" rel="stylesheet" />

## <link href="css/bootstrap-responsive.css" rel="stylesheet" />

## <link href="css/prettyPhoto.css" rel="stylesheet" />

## <link href="https://fonts.googleapis.com/css?family=Open+Sans:300,400,600,700" rel="stylesheet">

## <link href="css/style.css" rel="stylesheet">

## <!-- Theme skin -->

## <link id="t-colors" href="color/default.css" rel="stylesheet" />

## <!-- Fav and touch icons -->

## <link rel="apple-touch-icon-precomposed" sizes="144x144" href="ico/apple-touch-icon-144-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="114x114" href="ico/apple-touch-icon-114-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="72x72" href="ico/apple-touch-icon-72-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" href="ico/apple-touch-icon-57-precomposed.png" />

## <link rel="shortcut icon" href="ico/favicon.png" />

## </head>

## <%

## if (request.getParameter("Success") != null) {

## %>

## <script>alert('Login Success');</script>

## <% }

## %>

## <body>

## <div id="wrapper">

## <!-- start header -->

## <header>

## <div class="top">

## </div>

## <div class="container">

## <div class="row nomargin">

## <div class="span4">

## <div class="logo">

## </div>

## </div>

## <div class="span8">

## <div class="navbar navbar-static-top">

## <div class="navigation">

## <nav>

## <ul class="nav topnav">

## <li class="active">

## <a href="Cloud\_Home.jsp">Home</a>

## </li>

## <li>

## <a href="View\_owners.jsp">Data Owners</a>

## </li>

## <li>

## <a href="View\_users.jsp">Data Users</a>

## </li>

## <li>

## <a href="View\_user\_req.jsp">User File Requests</a>

## </li>

## <li>

## <a href="View\_downloads.jsp">Downloaded Files</a>

## </li>

## <li>

## <a href="graph.jsp">Graph</a>

## </li>

## <li>

## <a href="index.html">Logout</a>

## </li>

## </ul>

## </nav>

## </div>

## <!-- end navigation -->

## </div>

## </div>

## </div>

## </div>

## </header>

## <section id="intro">

## <div class="intro-content">

## <h2>A Novel Feature Matching Ranked Search<br>

## Mechanism Over Encrypted Cloud Data</h2>

## </div>

## </section>

## <section id="content">

## <div class="container">

## <div class="row">

## <div class="aligncenter">

## <h3>Welcome To Cloud Server</h3><br><br>

## </div>

## <div class="span12">

## <img src="img/cloud1.jpg" />

## </div>

## </div>

## </div>

## </section>

## <div id="sub-footer">

## <div class="container">

## <div class="row">

## <center> <p>&copy; 2023</p></center>

## </div>

## </div>

## </div>

## </div>

## <a href="#" class="scrollup"><i class="icon-angle-up icon-rounded icon-bglight icon-2x"></i></a>

## <!-- javascript

## ================================================== -->

## <!-- Placed at the end of the document so the pages load faster -->

## <script src="js/jquery.js"></script>

## <script src="js/jquery.easing.1.3.js"></script>

## <script src="js/bootstrap.js"></script>

## <script src="js/modernizr.custom.js"></script>

## <script src="js/toucheffects.js"></script>

## <script src="js/google-code-prettify/prettify.js"></script>

## <script src="js/jquery.prettyPhoto.js"></script>

## <script src="js/portfolio/jquery.quicksand.js"></script>

## <script src="js/portfolio/setting.js"></script>

## <script src="js/animate.js"></script>

## <!-- Template Custom JavaScript File -->

## <script src="js/custom.js"></script>

## </body>

## </html>

## CLOUD LOGIN PAGE

## <%@page contentType="text/html" pageEncoding="UTF-8"%>

## <!DOCTYPE html>

## <html lang="en">

## <head>

## <meta charset="utf-8">

## <title>A Novel Feature Matching Ranked Search</title>

## <meta name="viewport" content="width=device-width, initial-scale=1.0" />

## <meta name="description" content="Your page description here" />

## <meta name="author" content="" />

## <!-- css -->

## <link href="css/bootstrap.css" rel="stylesheet" />

## <link href="css/bootstrap-responsive.css" rel="stylesheet" />

## <link href="css/prettyPhoto.css" rel="stylesheet" />

## <link href="https://fonts.googleapis.com/css?family=Open+Sans:300,400,600,700" rel="stylesheet">

## <link href="css/style.css" rel="stylesheet">

## <!-- Theme skin -->

## <link id="t-colors" href="color/default.css" rel="stylesheet" />

## <!-- Fav and touch icons -->

## <link rel="apple-touch-icon-precomposed" sizes="144x144" href="ico/apple-touch-icon-144-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="114x114" href="ico/apple-touch-icon-114-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" sizes="72x72" href="ico/apple-touch-icon-72-precomposed.png" />

## <link rel="apple-touch-icon-precomposed" href="ico/apple-touch-icon-57-precomposed.png" />

## <link rel="shortcut icon" href="ico/favicon.png" />

## </head>

## <%

## if (request.getParameter("Failed") != null) {

## %>

## <script>alert('Login Failed');</script>

## <% }

## %>

## <body>

## <div id="wrapper">

## <!-- start header -->

## <header>

## <div class="top">

## </div>

## <div class="container">

## <div class="row nomargin">

## <div class="span4">

## <div class="logo">

## </div>

## </div>

## <div class="span8">

## <div class="navbar navbar-static-top">

## <div class="navigation">

## <nav>

## <ul class="nav topnav">

## <li>

## <a href="index.html">Home</a>

## </li>

## <li>

## <a href="DO\_login.jsp">Data Owner</a>

## </li>

## <li>

## <a href="DU\_login.jsp">Data User</a>

## </li>

## <li class="active">

## <a href="Cloud\_login.jsp">Cloud</a>

## </li>

## </ul>

## </nav>

## </div>

## <!-- end navigation -->

## </div>

## </div>

## </div>

## </div>

## </header>

## <section id="intro">

## <div class="intro-content">

## <h2>A Novel Feature Matching Ranked Search<br>

## Mechanism Over Encrypted Cloud Data</h2>

## </div>

## </section>

## <section id="content">

## <div class="container">

## <div class="row">

## <div class="aligncenter">

## <h3>Cloud Server Login</h3><br><br>

## </div>

## <div class="span6">

## <img src="img/cloud\_login.jpg" />

## </div>

## <div class="span6">

## <form id="contactform" action="cloud" method="post" class="contactForm">

## <div class="row">

## <div class="span6 margintop10 field form-group">

## <label>Email ID :</label>

## <input type="text" name="name" placeholder="Enter Your Email ID" required="required" /><br>

## </div><br>

## <div class="span6 margintop10 field form-group">

## <label>Password :</label>

## <input type="password" name="pass" placeholder="Enter Your Password" required="required" /><br>

## </div><br>

## <div class="span6 margintop10 field form-group">

## <button class="btn btn-success btn-large margintop10" type="submit">Login</button>

## </div>

## </div>

## </form>

## </div>

## </div>

## </div>

## </section>

## <div id="sub-footer">

## <div class="container">

## <div class="row">

## <center> <p>&copy; 2023</p></center>

## </div>

## </div>

## </div>

## </div>

## <a href="#" class="scrollup"><i class="icon-angle-up icon-rounded icon-bglight icon-2x"></i></a>

## <!-- javascript

## ================================================== -->

## <!-- Placed at the end of the document so the pages load faster -->

## <script src="js/jquery.js"></script>

## <script src="js/jquery.easing.1.3.js"></script>

## <script src="js/bootstrap.js"></script>

## <script src="js/modernizr.custom.js"></script>

## <script src="js/toucheffects.js"></script>

## <script src="js/google-code-prettify/prettify.js"></script>

## <script src="js/jquery.prettyPhoto.js"></script>

## <script src="js/portfolio/jquery.quicksand.js"></script>

## <script src="js/portfolio/setting.js"></script>

## <script src="js/animate.js"></script>

## <!-- Template Custom JavaScript File -->

## <script src="js/custom.js"></script>

## </body>

## </html>

## CHAPTER 7

## TESTING

## 7.1 TEST PLAN

## The purpose of testing is to discover errors. Testing is the process of trying to discover every conceivable fault or weakness in a work product. It provides a way to check the functionality of components, subassemblies, assemblies and/or a finished product.

## 7.2 TYPES OF TEST PLANS

## There are various types of tests. Each test type addresses a specific testing requirement.

## UNIT TESTING

## Unit testing is a deliberate testing in the module where the errors in the code that are found in the validation phase is eradicated.

## TEST ON DATA OWNER FORM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CONTROL NAME | CONTROL | DATA | EXPECTED OUTPUT | OBTAINED OUTPUT | RESULTS |
| ID | Textbox1 | abc@gmail.com | abc@gmail.com | Login Success | Login Success |
|  |  | 123 | 789abc | Invalid ID | Invalid ID |
| Password | Textbox2 | 1234 | 1234 | Login Success | Login Success |
|  |  | 1234 | abcd | Invalid Password | Invalid Password |

## TEST ON DATA USER FORM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CONTROL NAME | CONTROL | DATA | EXPECTED OUTPUT | OBTAINED OUTPUT | RESULTS |
| ID | Textbox1 | abc@gmail.com | abc@gmail.com | Login Success | Login Success |
|  |  | 123 | 789abc | Invalid ID | Invalid ID |
| Password | Textbox2 | 1234 | 1234 | Login Success | Login Success |
|  |  | 1234 | abcd | Invalid Password | Invalid Password |

## TEST ON CLOUD FORM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CONTROL NAME | CONTROL | DATA | EXPECTED OUTPUT | OBTAINED OUTPUT | RESULTS |
| ID | Textbox1 | cloud | cloud | Login Success | Login Success |
|  |  | cloud | 789abc | Invalid ID | Invalid ID |
| Password | Textbox2 | cloud | cloud | Login Success | Login Success |
|  |  | cloud | abcd | Invalid Password | Invalid Password |

## 7.2 INTEGRATION TESTING

## Integration testing is a type of software testing where software modules are integrated logically and tested as a group. As a part of the software testing process, the integration testing phase examines the interfaces between the modules and looks for any flaws that might appear when they are combined and work together.

|  |  |  |  |
| --- | --- | --- | --- |
| TEST CASE ID | TEST CASE OBJECTIVE | TEST CASE DESCRIPTION | EXPECTED RESULTS |
| Upload File | To ensure the integration between the multiple file keyword and select file. | Enter multiple file keyword and click ok. | Uploaded file should display as file uploaded successfully ad should be uploaded in the cloud. |
| Search File | To ensure the integration between the enter file keyword and search button. | Enter file feyword and click search. | Search file should display the file which is been uploaded. |
| Requested Files | To ensure the integration between the file ID, file name and uploaded time and with action as decrypt and download. | Enter Action decrypt and download. | It accepts the request of the file and then decrypts and downloads the file. |
| Download file | To ensure the integration between the file name and the decryption key. | Enter decryption key sent to data owners mail and click download. | It downloads the file. |
| Cloud | To ensure the integration between the cloud and the graph. | Enter the submenu navbar. | It displays the encryption and decryption analysis of the file being uploaded by the user in milliseconds. |

## 7.3 SCREEN SNAPSHOTS

## 

## 

## 

## 

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## 

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## 

## CHAPTER 08

## CONCLUSION AND FUTURE SCOPE

## 8.1 CONCLUSION

## In this paper, we propose a novel feature matching ranked search mechanism for encrypted cloud data. In this mechanism, a feature score algorithm is used to create indexes so that a plurality of keywords extracted from a document are only mapped to one dimension of the index. Comparing with creating indexes with independent keywords, this mechanism can reduce the index dimension. In addition, a matching score algorithm is designed in the generating trapdoor process of FMRSM. This algorithm can give the query request an accurate score based on the type of match and the number of matching keywords, so that the query results are more in line with users' actual search requests. It can be seen from the experiment results that our mechanism can speed up the creation of index, the generation of trapdoor, and the search process. Moreover, our mechanism can save storage cost and improve the ranking accuracy.

## 8.2 FUTURE SCOPE

## Our system can enhance image and video retrieval systems, improving user experiences in fields like e-commerce, fashion, entertainment, and surveillance. Moreover, it has the potential to enhance content-based recommendation systems, providing personalized recommendations based on visual or content-related features. This technology can also have a significant impact on augmented reality and virtual reality applications, enabling users to find relevant virtual objects or scenes that match their preferences or real-world surroundings. E-commerce platforms can benefit from feature matching ranked search by enabling users to find products based on specific visual or functional attributes and facilitating product comparison. Reverse image search engines can provide more accurate results, aiding in identifying counterfeit products, plagiarism detection, and finding the original source of an image. Furthermore, feature matching ranked search can assist in content moderation, identifying and flagging inappropriate or prohibited visual content more efficiently in user-generated content platforms, thus contributing to a safer online environment. With ongoing technological advancements, we can expect further improvements and broader applications of novel feature matching ranked search across various industries.

## CHAPTER 9

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## Bottom of Form

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## The Royal Society Publishing.