

**A
Project Report
On
INSTALLATION AND EXECUTION
OF**

**“Attribute Based Encryption For Sharing, Storing and
Retrieval Of The Encrypted Data Into The Cloud”**

By

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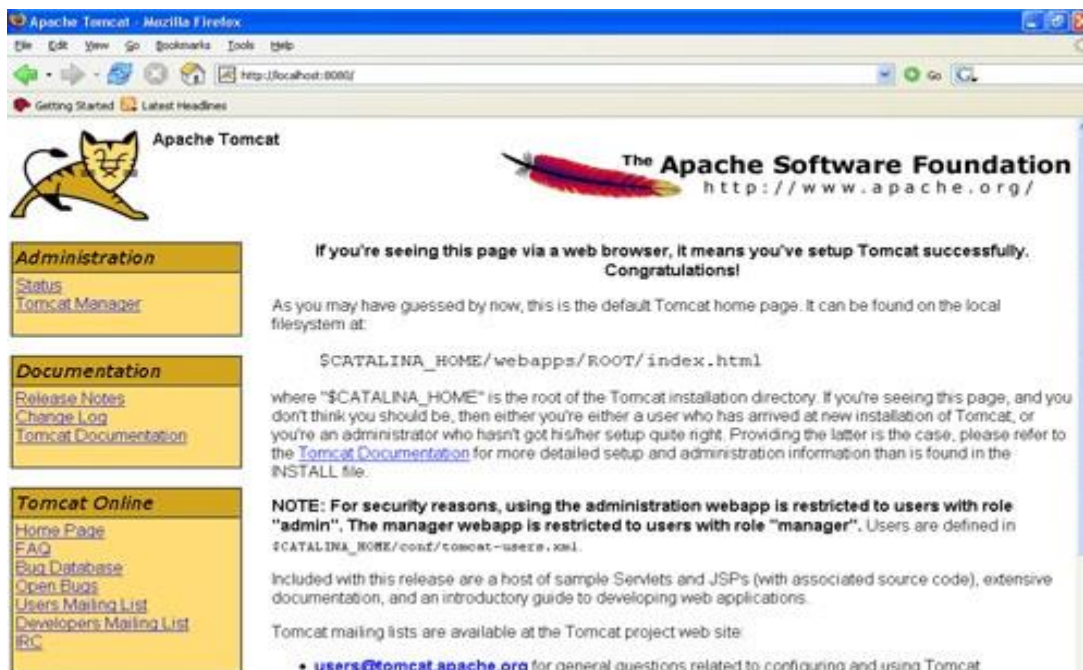
INSTALLATION

To run the “attribute based encryption for sharing, storing and retrieval of the encrypted data into the cloud”, We need to install the following software’s.

- Tomcat server
- Java platform[eclipse]
- MySQL
- HTML, CSS
- DriveHQ

Tomcat 6.0 web server:

Tomcat is an open-source web server developed by Apache Group. Apache Tomcat is the servlet container that is used in the official Reference Implementation for the Java Servlet and Java Server Pages technologies. The Java Servlet and Java Server Pages specifications are developed by Sun under the Java Community Process. Web Servers like Apache Tomcat support only web components while an application server supports web components as well as business components. To develop a web application with jsp/servlet install any web server like Run, Tomcat etc., to run your application.



Java Platform:

To run the java code, we need to install Eclipse IDE.

1.Go to the google chrome and install the latest version of eclipse.

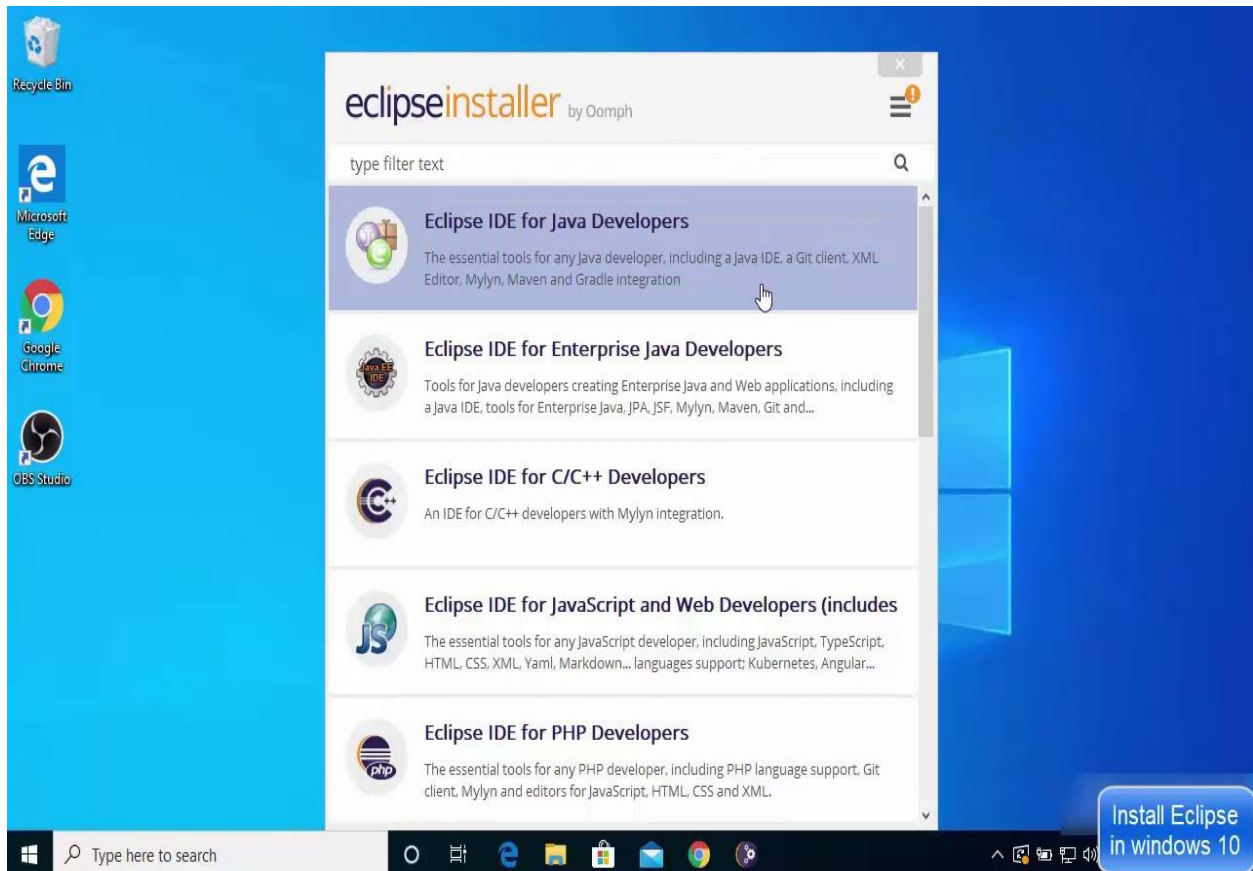
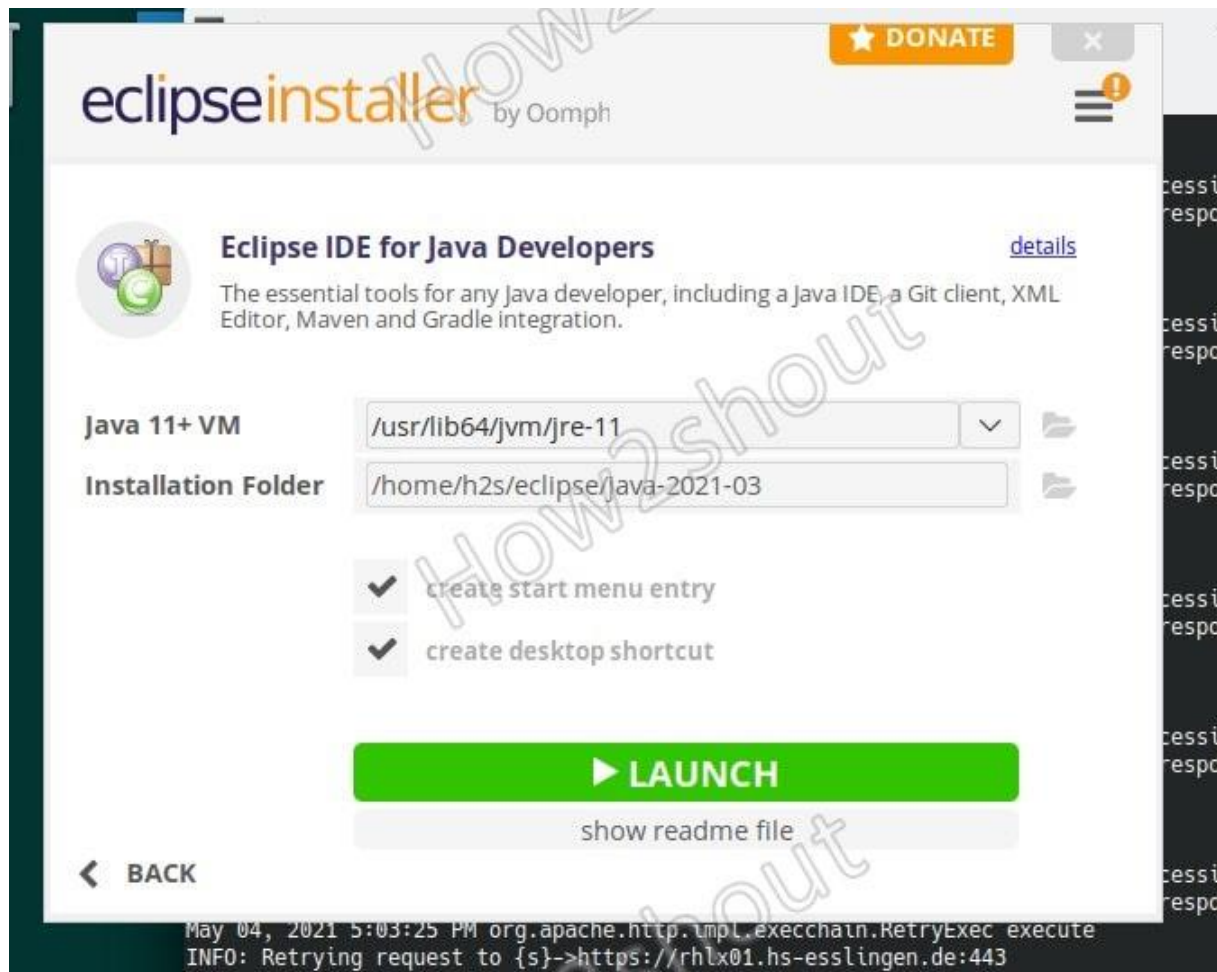


Fig: eclipse installer

2. Seelct the Eclipse IDE for Java Developer and click on it.

3. Then the eclipse will be installed.



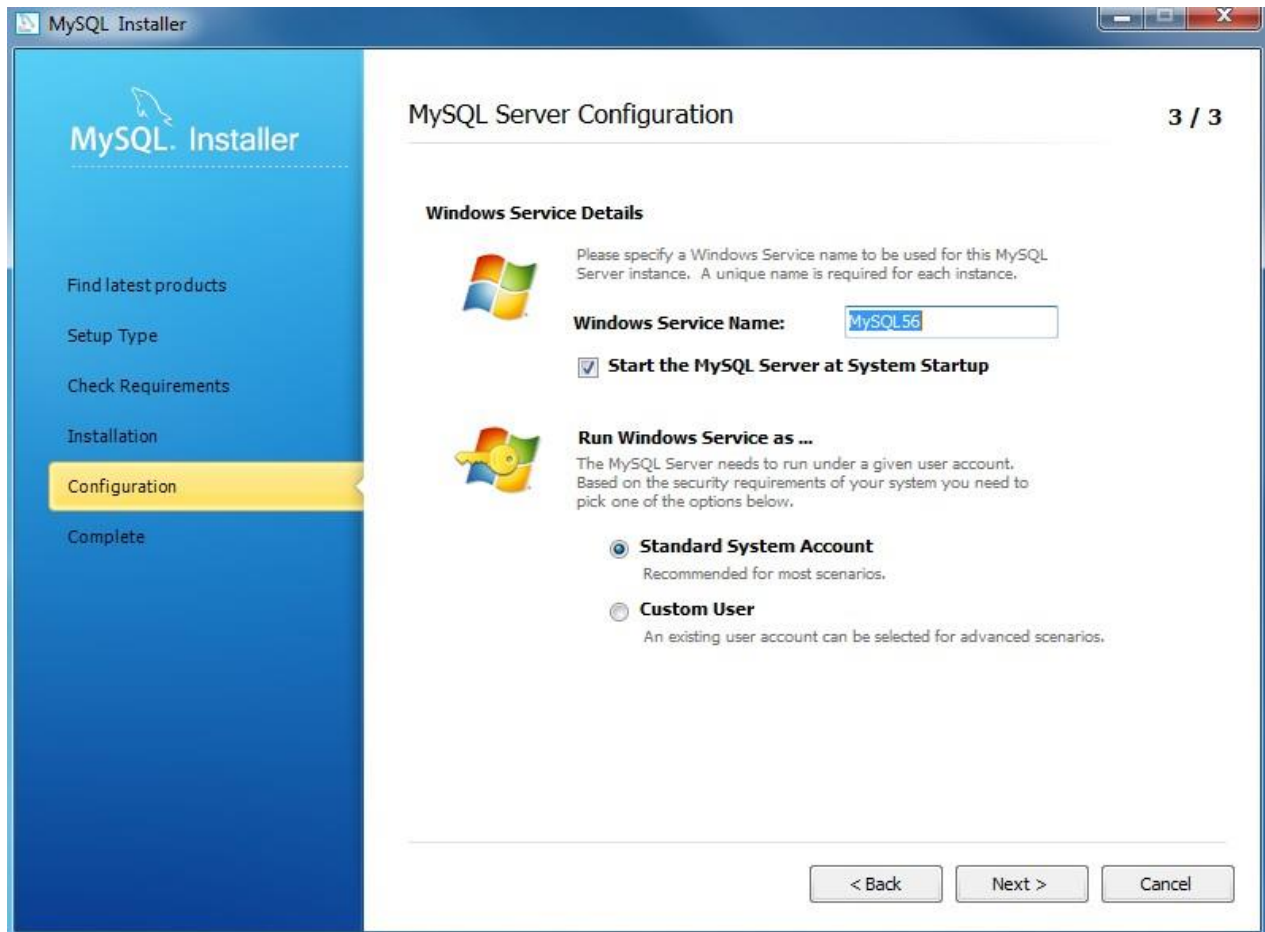
4. After installation we get a launch option, click on it.

5. select a directory to register the path and then you will be redirected to the eclipse work place.

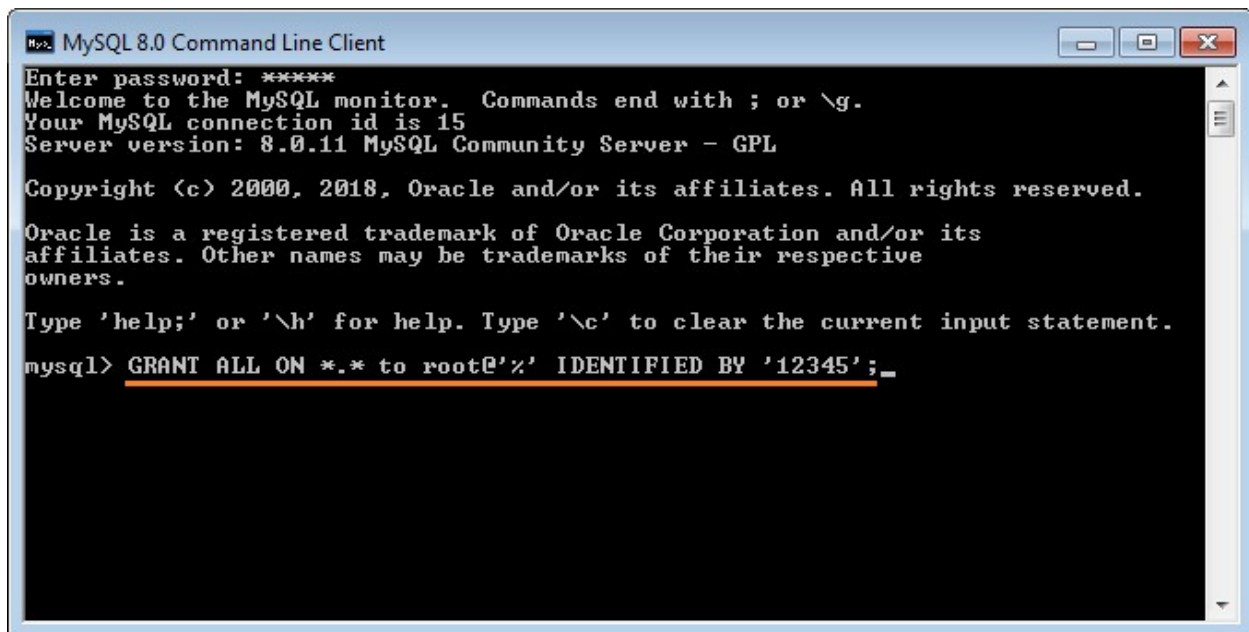
To right a java program click on file and select java file by selecting a java file your java file will be created and you can write the code in it.

MySQL:

We use MySQL for database purpose, To install MySQL we need to go to google and install the updated version of MySQL.



1. Select the windows service name and click on next.
2. Here, the main thing is the password which we are given while installation. If we forget the password, we need to reinstall the MySQL.
3. Open MySQL command prompt and enter the password, you will be redirected the MySQL command prompt.



```
MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 15
Server version: 8.0.11 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\\h' for help. Type '\\c' to clear the current input statement.
mysql> GRANT ALL ON *.* to root@'%' IDENTIFIED BY '12345';_
```

HTML, CSS:

1. Install sublime Text for html and css files.
2. Select the sublime Text version according to your software requirements.



Sublime Text

Download

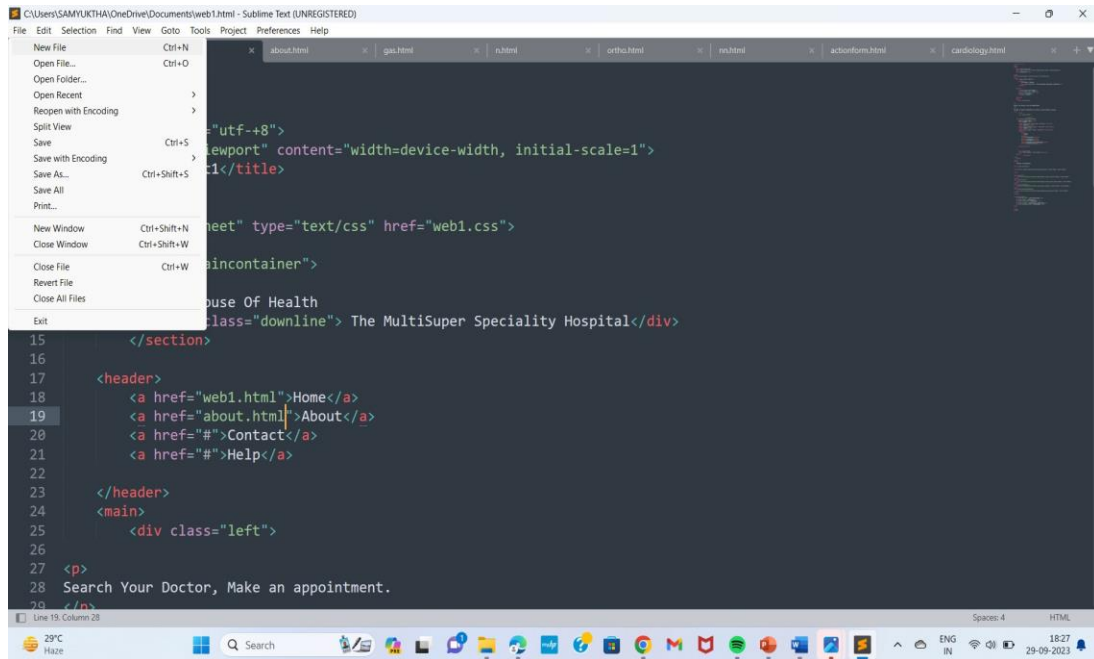
Sublime Text 3 is the current version of Sublime Text. For bleeding-edge

Version: Build 3211

- [OS X](#) (10.7 or later is required)
- [Windows](#) - also available as a [portable version](#)
- [Windows 64 bit](#) - also available as a [portable version](#)
- [Linux repos](#) - also available as a [64 bit](#) or [32 bit tarball](#)

Sublime Text may be downloaded and evaluated for free. [wikiHow](#)

3. Choose the version and download the Sublime Text.



4. open Sublime Text and select a new file and save the file by .html extension.

And if we want a css file we need to be save the file by .css extension.

DriveHQ:

Users can store and access data to driveHQ from any device at any time, using driveHQ's websites, FTP clients software, or flagship file manager software. Businesses and consumers can easily backup important documents to driveHQ's secure data centers using only are complete backup solutions.



Using driveHQ we store all the file here.

Here, we are storing all the database files which are given by the data owner and the files which are edited or modified by user.

[DriveHQ Start Menu](#) [My Storage](#) [Group Account](#) [Manage Shares](#) [Drive Mapping, Backup & Sync Tools](#) [Manage Drop Boxes](#) [FTP/SFTP Hosting](#)

DriveHQ

Cloud IT Service Since 2003

FeaturesSoftwarePricing

Up

Upload

Download

Zip Download

Share

Publish

New Folder

New File

Copy

Cut

Delete

Paste

DriveHQ Root

My Storage

My Documents

My Pictures

Recycle Bin

wwwhome

DriveHQShare

webmaster

My Profile

Upgrade to Business/Enterprise Plan

FTP is for business only.

Folder Path: \

☒ Select

Search

Download All

View

Sort

Options

Slide

Play Music

Lock List

<input type="checkbox"/> Name	Action	Create Time	Modify Time	Size
<input type="checkbox"/> details.txt		2/28/2023 9:38:07 PM	2/28/2023 9:38:07 PM	97 B
<input type="checkbox"/> test.txt		2/28/2023 6:39:04 PM	2/28/2023 6:39:04 PM	16 B
<input type="checkbox"/> SOWMYA_DOC.txt		2/28/2023 6:33:25 PM	2/28/2023 6:33:24 PM	97 B
<input type="checkbox"/> unacademy_docx		2/27/2023 3:57:30 PM	2/27/2023 3:57:28 PM	112 B
<input type="checkbox"/> title.docx		2/27/2023 3:46:05 PM	2/27/2023 3:46:05 PM	40 B
<input type="checkbox"/> abc.txt		2/27/2023 3:36:55 PM	2/27/2023 3:36:55 PM	16 B
<input type="checkbox"/> mohan_file_upload.txt		2/27/2023 3:36:04 PM	2/27/2023 3:36:03 PM	250 B
<input type="checkbox"/> file0014.txt		2/27/2023 3:22:32 PM	2/27/2023 3:22:32 PM	48 B
<input type="checkbox"/> Recycle Bin		2/27/2023 2:59:47 PM	2/27/2023 3:19:23 PM	146 B
<input type="checkbox"/> wwwhome		2/27/2023 2:26:25 PM	2/27/2023 2:26:25 PM	23 KB
<input type="checkbox"/> My Pictures		2/27/2023 2:26:25 PM	2/27/2023 2:26:25 PM	2.95 MB
<input type="checkbox"/> My Documents		2/27/2023 2:26:25 PM	2/27/2023 2:26:25 PM	138 B

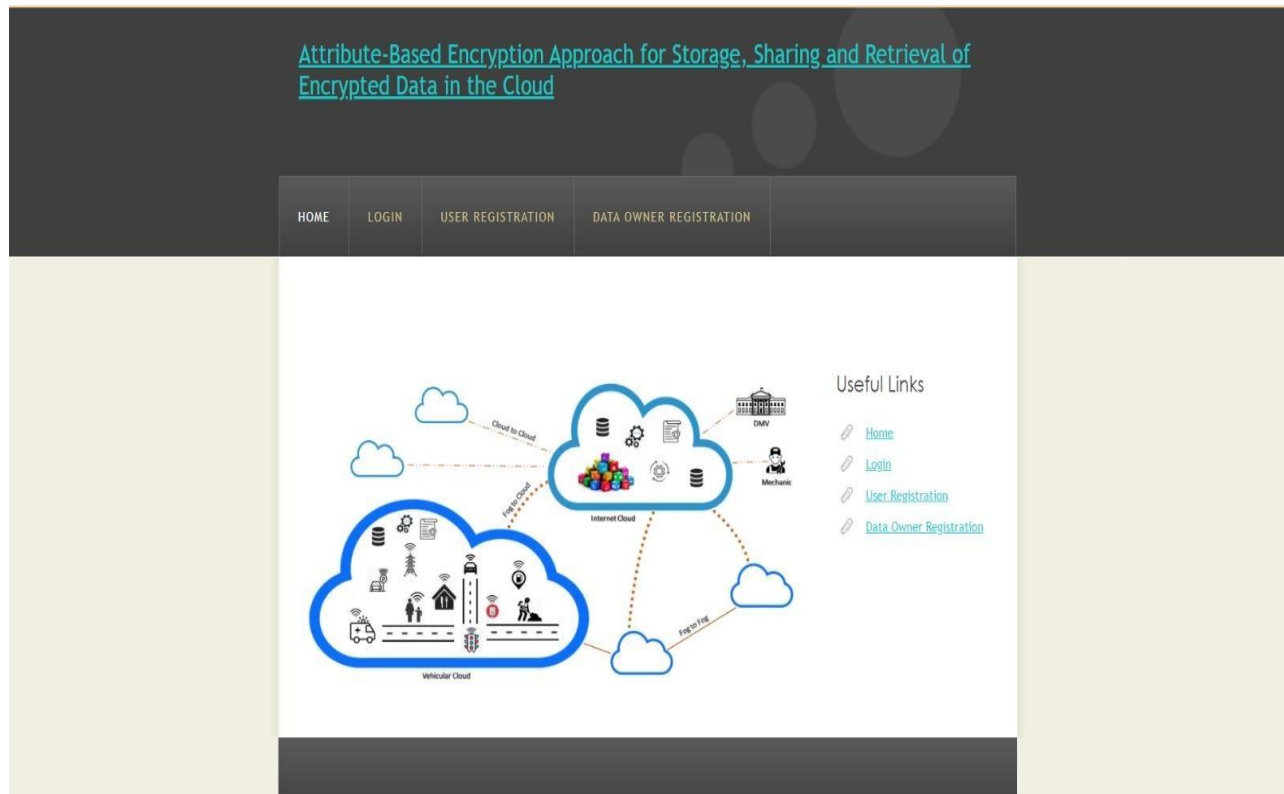
Folder Size: 2.97 MB Folder(s) / File(s): 12 Free Space: 5.00 GB

Loaded: 1 Page(s) - 12 Record(s) / Total: 1 Page(s) - 12 Record(s)

EXECUTION PROCESS:

HOME PAGE:

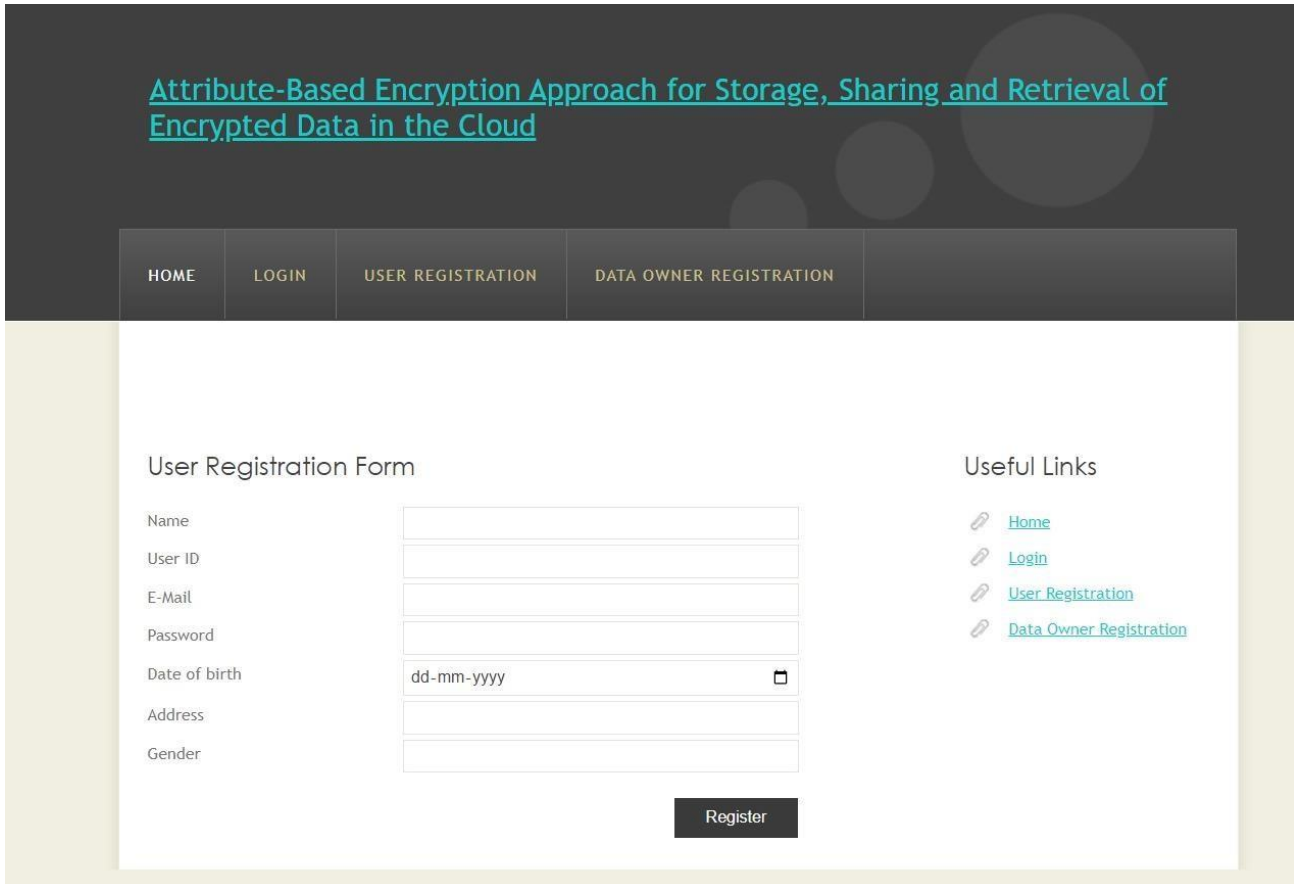
Home page is the first page in our website it shows login, User Registration and Data owner Registration Details



From home page we redirect to owner registration page and user registration page from their we should first register the user and owner. After completion registration user can login and view portal. Data Owner can login modify the data according to user requirements.

USER REGISTRATION PAGE:

New user will register in this page by providing below shown credentials.



The screenshot displays a web application interface for user registration. At the top, a dark header bar contains the title "Attribute-Based Encryption Approach for Storage, Sharing and Retrieval of Encrypted Data in the Cloud" in teal text. Below the header is a navigation menu with four items: "HOME", "LOGIN", "USER REGISTRATION" (highlighted), and "DATA OWNER REGISTRATION". The main content area is divided into two sections. On the left, the "User Registration Form" includes input fields for Name, User ID, E-Mail, Password, Date of birth (with a "dd-mm-yyyy" placeholder and a calendar icon), Address, and Gender. A "Register" button is positioned below the form. On the right, the "Useful Links" section lists four links: "Home", "Login", "User Registration", and "Data Owner Registration", each preceded by a small icon.

HOME	LOGIN	USER REGISTRATION	DATA OWNER REGISTRATION
------	-------	-------------------	-------------------------


User Registration Form

Name:

User ID:

E-Mail:





Password:

Date of birth: 

Address:

Gender:

Useful Links

-  [Home](#)
-  [Login](#)
-  [User Registration](#)
-  [Data Owner Registration](#)

User should registered first with their name, User-ID, E-mail, and few more details here User should be remember his User-ID and password which has given by user then only user can login with that details.

Data Owner Registration:

The Data owner will register in this page by providing his credentials and click on the Register button provided there.

[Attribute-Based Encryption Approach for Storage, Sharing and Retrieval of Encrypted Data in the Cloud](#)

HOME	LOGIN	USER REGISTRATION	DATA OWNER REGISTRATION
------	-------	-------------------	-------------------------

Data Owner Registration

Name

User ID

E-Mail

Password

Date of birth

Address

Gender

dd-mm-yyyy

Register

Useful Links

[Home](#)

[Login](#)

[User Registration](#)

[Data Owner Registration](#)

Data Owner should be registered with his name and User-Id. Data owner should also remember his User-Id and password which user has given while the time of registration process.

Whenever Data owner want to login or modify any changes, He should be login with the User-Id and password then, he can modify the details and permissions.

Login page:

The User can login to the website by using his credentials he mentioned at the time of registering

The screenshot displays a web application interface. At the top, a dark header contains the title "Attribute-Based Encryption Approach for Storage, Sharing and Retrieval of Encrypted Data in the Cloud" in a light blue font. Below the header is a navigation bar with four buttons: "HOME", "LOGIN", "USER REGISTRATION", and "DATA OWNER REGISTRATION". The main content area is white and features a "Login Here" section on the left. This section includes two input fields labeled "Name" and "Password", each with a circular icon to its right. Below these fields is a dark "submit" button. To the right of the login form is a "Useful Links" section with four links: "Home", "Login", "User Registration", and "Data Owner Registration", each preceded by a small circular icon. The entire page is framed by a light yellow border.

Attribute-Based Encryption Approach for Storage, Sharing and Retrieval of Encrypted Data in the Cloud

HOME LOGIN USER REGISTRATION DATA OWNER REGISTRATION

Login Here

Name

Password

submit

Useful Links

- [Home](#)
- [Login](#)
- [User Registration](#)
- [Data Owner Registration](#)

From the login form, user and data owner can login and view their page. User-id and password are mandatory to login and view the page.

View Page:

The user can view the files and Edit them so that no other unauthorized user can view and edit them

HOMEVIEW DATA DETAILSDELETE FILESVIEW USER REQUESTLOGOUT

details.txt

SNO	User ID	Edit	View
1	so	No	No
2	srinu	No	No
3	user	No	No
4	user3	No	No
5	user4	No	No
6	user5	No	No
7	user6	No	No
8	user7	No	No

Send

Useful Links

Home

View Data Details

delete files

Logout

The user can edit and view the file. This permissions are given by the Data Owner. According to user Data owner can modify the permissions. Some of the users can only view the file cannot modify the file.

Logout Page:

Here the user can view the file he uploaded and logout from the page and the user can login anytime by using his details.

HOME

LOGOUT

File Name	Get File Key	File Owner
File Name	test2.txt	
<div>hi hello</div>		

Useful Links

[Home](#)
[Logout](#)