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Private Web hosting for Confidential Data using Cloud

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Abstract **-** Private web Hosting for Confidential information is a web application is mainly designed and developed to focus on cost management of various distributed cloud computing administrations and models that are utilized by business stages like DevOps/IT Organizations for using the web service like storage. In a distributed computing approach cost depends on measure of information stockpiling and hour of upkeep so cloud service provider will fix the expense for User information. In our application the cost of information will vary from text, picture ,video. Assume the user will upload image to the cloud, the service cost of image is higher when compared to text .The application also focuses on the key aspect of the application that is pay per use of the service the payments are done only for the resources that are utilized at specific duration by the user where overcoming the major drawback in the models that where designed earlier where the users had to take either the yearly plan or the monthly plan but now we have an advancement ie pay per use which is a major change that has been implemented in this application. The user can store possess information in distributed storage zone. They can see distributed storage information whenever from any place subsequently making it best and convenient application. The User should pay for the storage cost just which is having incorporated capacity and propelled security turns out to be progressively solid. This administration has just been fused of utilizing such administrations in numerous IT, business divisions for expansive capacity of business confidential information and completely annulling the future crisis with incredible administration and security.

Keywords- centralized storage, confidential, Cloud Computing, Web Host, Storage.

I. INTRODUCTION

Our application just use foundation as a service (IaaS) the cloud service provider fixes the cost depending on amount of storage space utilized with respect to the time span. So as to decide an evaluating model that gives business incentive to an association utilizing cloud administrations, it is important to know the immediate and circuitous expenses of giving these administrations.

The expenses caused rely upon the specific estimating. Huge quantities of associations have embraced cloud administrations to accomplish cost reserve funds, adaptability, and versatility of IT framework.

Numerous individuals ask about the best cloud management tool or apparatus, however it's essential for user to choose what cloud board highlights and functionalities they requirement for their business and after that select the best device that fits. According to any business, we are showing you best facilitating instrume nt is "Private web hosting for business confidential data using cloud". Many facilitating specialist co-ops are charging month to month or yearly. However, our administration will charge you according to your utilization of our administrations. So it will help DevOps /IT individuals in all associations will help in sparing cost control.

Since brought together capacity and propelled insurance is the another key angle for any specialist co-ops, any user will have risk of information corrupting, manipulation, accessing. So this web application furnishes exceptional security the customer with following utilizing propelled information secure instruments where the encryption of the data are done using advance encryption algorithm called hashing algorithm which eradicate many security issues faced today in the market and calculation where if any unauthorized individual endeavors to see your information it's impractical and impossible to acces it.

On the off chance that the individual is frightened to lose the information there's programmed reinforcement where the person can recover the information where the admin can provide backup for the data by paying . Since this Web application is stage autonomous, it can keep running on any framework form anyplace. This primarily additionally center around user experience facilitates empowers simpler installments through installment entryway coordination which diminishes the customs of paying through crude money when it tends to be effectively done through online exchange and making it the most proficient application. The tweaked Dashboard for the users can see updates and installment dates for not any more further deferral and can likewise get reestablishment plans subtleties and can easily renew the service. Enhance and productive utilization of

cloud assets will help DevOps/IT individuals in all associations help in sparing cost control which is the serious issues confronted issues in the distributed computing market. So this can be annihilated through certain estimates which causes association to pay for what they use not as pay per plan but rather it's as pay per use.

Cost perceivability where the client can see the value subtleties for administrations that are been utilized by the user that are fixed by the admin subsequently demonstrating more straightforwardness and transparent in the administration.

This web application is designed and developed on the eclipse platform which supports with inbuilt libraries and tools for developing the desired modules. We have used some advancements instead of HTML We have used java server pages where this pages supports in developing greater interface for the user. This is more efficient and reliable front end designer where the manipulation of the designed content is easier. The system supports with the apache tomcat server which acts as a host to the application where helps in establishing a connecting the client and the server which is best application server. This is in turn is connected to the database for storing the user details where the connection gained through JDBC connectivity in connecting the database to the java script programme. This relation is set when user sends any request or in the form query the database gives the solutions concluding the connectivity. The storing data and processing which involves text processing, image processing and video processing.

II. RELATED WORK

There's an outstanding case of a participation framework permits to include the participation of the representative, understudy section inside the grounds or the library who is available on that day. The user needs to login and examine their character card or the employee to stamp their participation. As the card has been examined, to subtleties like id number, date of birth, in-time, out-time are spared in the database of the REVA University server. The database will be put away into the server which will frame a devoted association among application and cloud server through web. With the in - time and out-time information put away in cloud the administrator can figure the working hours of the representatives can see staff subtleties a subtleties like id number date in-time out-time. What's more, with regards to understudy cases can without much of a stretch discover the participation subtleties.

At the point when client signs into the framework this information is recovered from the database and can get whenever by the worker and the administrator. The administrator of the framework can include new worker by enrolling the new representative and topping off their enlistment subtleties whenever and it's equivalent to understudy case. The administrator is approved to see the records all things considered. This framework permits keeping up the date record of the worker.

As, the venture documents and database record will be put away into the cloud, the task will be gotten to in the internet browser through connection given by the REVA University.

There are numerous such precedents which are solid distributed computing and specialist co-ops in the market like AWS(Amazon web services),IBM cloud, google cloud administrations, sky blue cloud administrations and so on which have been an extraordinary inspiration in building up this web application with improved administration and security and cost control factors.

For instance, consider a monetary establishment which is pitching budgetary bundles to the representatives of its clients. The clients are extensive associations; however the end-clients are people: workers who need to deal with their money related advantages. This foundation has set up a product arrangement giving self-administration instruments to the end-clients, to see and survey their money related bundles. A crucial piece of the framework is security, and the decision was made to put together the framework with respect to a private cloud. Be that as it may, the end-clients and – much increasingly vital – their managers, who are paying for the framework, con sider this to be an open cloud. Basically they have re-appropriated their worker's information to an outer monetary supplier [1].

The current cloud computing system mainly consists of three service models, Software as a Service (SaaS), which provides online software to users and it is controlled by CSPs. Platform as a Service (PaaS), which enables the web application developers to easily host their online web application on the cloud platforms and user only control the application whatever they are hosted in the cloud. Infrastructure as a Service (IaaS), provides computing infrastructure in virtualized manner based on the users demand [4].

S.K. Sood (2013) [5], proposed a security model that keeps the most confidential and critical data on the private cloud and rest of it on the public cloud and for checking the integrity of the data at the public cloud this model uses the hash codes.

III. PROBLEM STATEMENT

We all know there many service providers like AWS(Amazon web service), IBM Cloud provide service plan per pay where its either for monthly or yearly plan . The user has to stick to the plan and pay for whole year or month even if the user is not using the service. The major threat in this days is that data corruption where the data is been

accessed by the unauthorised user and the data is manipulated or cause the data damage. The data backup where users also have the fear of losing data, where some service providers don't provide the data backup which results in losing the confidential data. The transaction process has lot of issues where there are more paper work done or crude money has to be utilized .The customer interface where hard to get for the users.Users where unaware of the pricing schemes and payment details.

IV. EXISTING SYSTEM

The focal point of the investigation lies in the cost correlation of various Cloud Computing Services and administration models. Thus, buying costs for servers are not considered in the model. A difference in a specialist organization compares to the primary reception of a Cloud Computing Service: If a supplier change is occurring, it ought to be considered as an arrangement of another Cloud Computing Service. The purpose behind this is the means for the underlying arrangement of a Cloud Computing Service are equivalent to that of a change here we doesn't consider distributed storage concealed expense. The security and privacy features that are necessary for the activities of cloud providers.[3]

The fundamental building block technology for achieving privacy in a public cloud is data encryption. Cloud encryption allows organizations to build "virtual walls" around their sensitive data, and therefore achieve privacy in a shared environment. But cloud encryption is only one part of the equation. Managing the encryption keys in a shared, public compute environment is the bigger obstacle. Another equally large issue is securing the most sensitive resources, such as the encryption keys themselves, when they are in memory of servers in the cloud.[2]

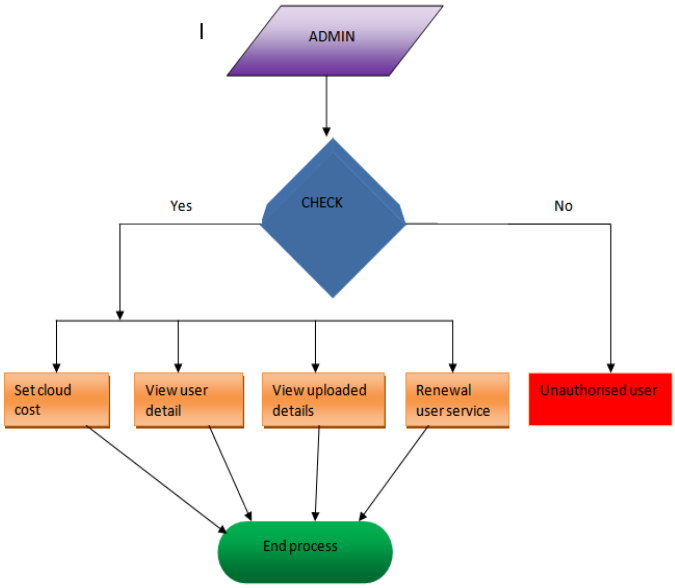
V. PROPOSED SYSTEM

Our application primary idea is to figure the expense for distributed computing client information .the client can store her information in cloud wellbeing and security ways .Pricing structures for the cloud depend on a different components running from extra room expected to clock cycles used to month to month traffic assignments, and it doesn't finish here. Some of the time there are extra charges concealed profound inside administration level understandings (SLAs). To touch base at a complete estimating for a cloud administration, client associations must observe singular administration components that a supplier bills for and how these are determined. Does the supplier for example, bill dependent on inside server traffic, extra room required, server CPU time or a blend of these variables alongside different components? The expenses every hour are the costs that are produced by the assets that have a unit cost for each hour and can be paid not withstanding for only 60 minutes.

VI. METHODOLOGY

System Model consists of two modules namely a) Admin Module b) User Module

Admin Module:



Description: This is a basic system model for the admin module which includes the check in where YES then the admin can perform following task .So here Admin also should be authorized who manages the cloud with following work role to play setting the cloud cost for the user, view the user detail, view the uploaded details and renewal of the services. If the check shows no then incorrect user which means unauthorized admin trying to in manipulate the data. Finally end of the process after the actions performed by the user.

Admin Algorithm:

Step 1: Login as admin

Step 2: Check option for Admin, if yes

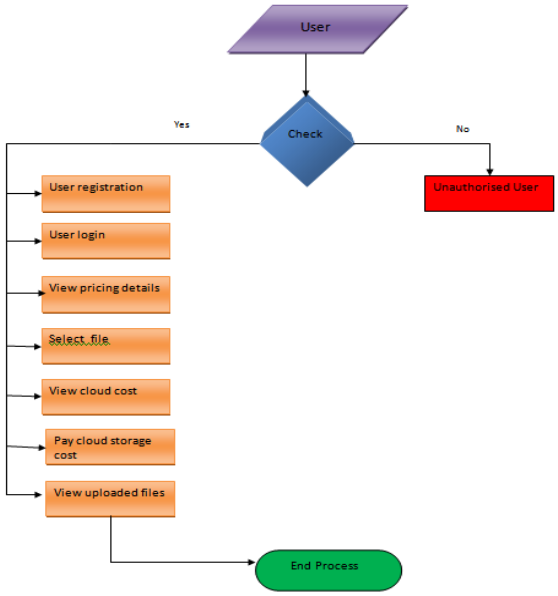
a) set cloud cost
b) View the user details
c) Vied uploaded details
d) Renewal user details,
e) Go to step 4

Step 3: Check option for Admin, if no

a) Unauthorized user
b) Go to step 4

Step 4: Exit

User Module:



Description : This basic system model of the user also has some roles to play which are shown in the model form .This includes the check in ,if yes then user registration, user login, view pricing details, select file, view cloud cost, pay the cloud storage, and view uploaded data files. Then if check in showing NO then unauthorized user which means he can't access the service.

User Algorithm:

Step 1: Login as User

Step 2: Check option for user, if authenticated user

a) User login
b) View pricing details
c) Select file
d) View cloud cost
e) Pay cloud storage cost
f) View uploaded files
g) Go to step 4

Step 3: Check option for user, if not authenticated user

a) Display the message as Unauthorised user
b) Go to step 4

Step 4: Exit

VII.RESULTS AND DISCUSSIONS

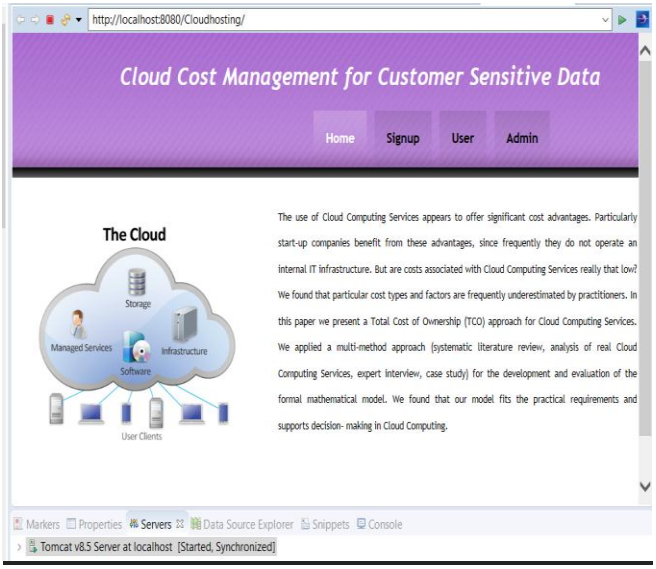


Figure 1: Home page

Description : Once the application is run by the client which is the is the same platform for admin and the user, the user will encounter the first homepage where the user will get current updates, dashboards which includes the customer or users current updates which includes dates of payments, renewal dates ,transactions tokens. And then followed by the next process of this application which undergoes some set of protocols to use this application which will be sign up page.

Figure 2: User Registration home page

Description: When the user comes to the next process of this application where the user has to sign in the page with filling the following details which include name of the User ,the password the user wants to generate which again the user has to follow the terms and conditions to create the password with 8 alphabets 1special characters followed by the numeral, then conforming the password with re-typing the same password that's been created ,then the user email id which is active,10 digit valid mobile number, permanent Address of the user, then the enter the pin number to complete filling the necessary details and then finally

submitting with the register now icon. These details are stored in the database and are monitored by the admin.

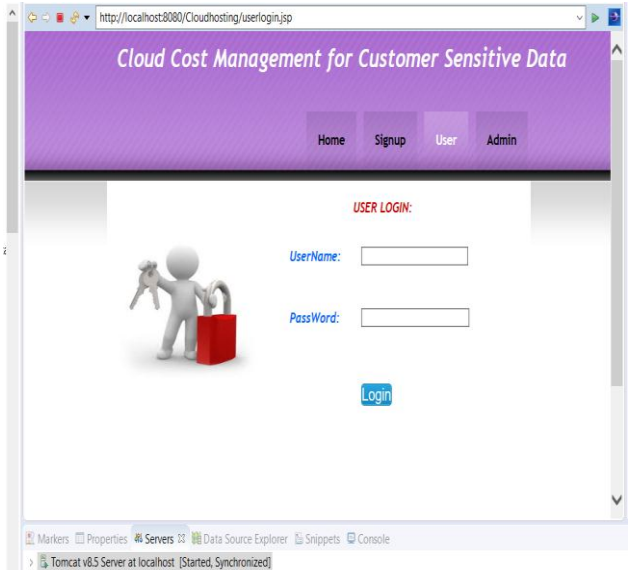


Figure 3: Authenticated user login page

Description: After the user registers the user can login with Username and password and then re-login to visit the page where the user can store the data in according to the type and size. This details the user is storing into the cloud cannot be accessed by any unauthorized person since the password is not been shared by user to any one and by the admin .This data is confidential and are encrypted and are not accessed by the any unknown person.

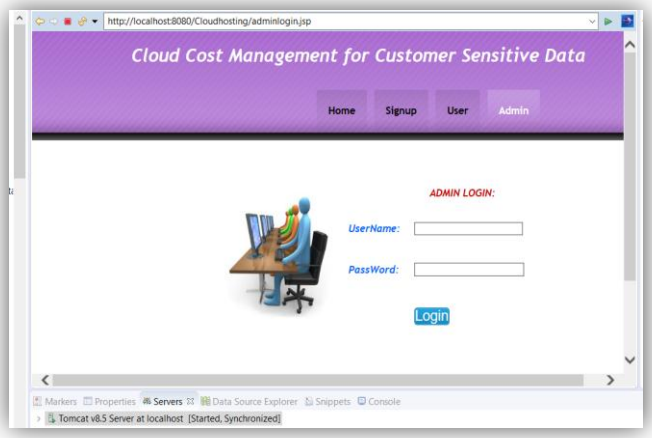


Figure 4: Admin login

Description : Admin plays a crucial role on monitoring the user details, data confidentiality, payment controls, setting uploaded details ,setting the deadlines ,any offers on the pay per use plans and also renewal the users etc. Here the admin cannot view the content of the data since the data stored will be encrypted but can keep the track of the size of the data stored ,amount of the data stored etc.

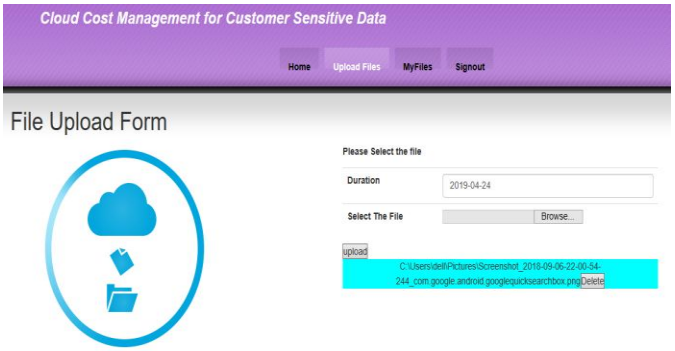


Figure 5: File upload form

Description: Once the user logins and wants to upload file to the cloud. The user jumps to file upload form and selects the duration of the file content to be stored in the cloud from the day he is uploading the file to the date he wants to use the resource. Then browse to select the file from the destination. After selecting upload the file where the file gets stored in the database. To view the uploaded files the user may have to visit my files.

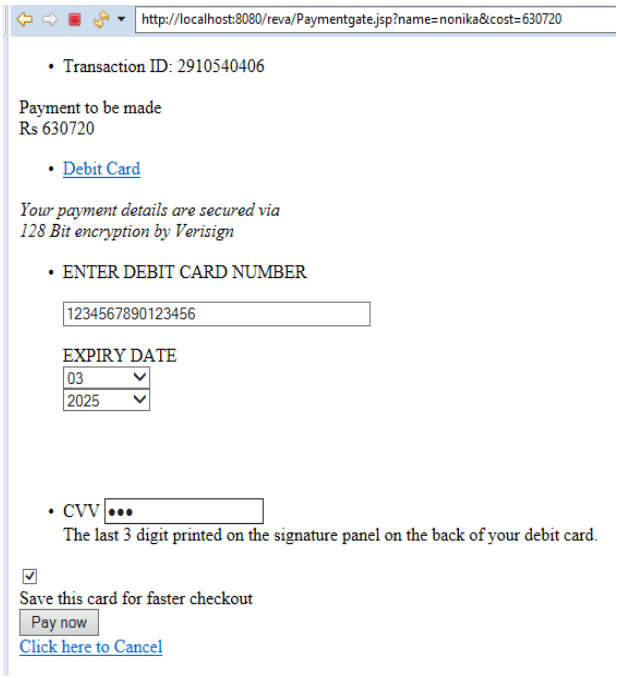


Figure 6: Payment gateway form

Description: Once the user enters the file upload button then he has to pay the storage service which the user wants to use. The payment gateway has some set of user bank account and debit card information which includes 16 digit account number, the expiry date of the card and 3 digit CVV number to pay for the cloud service.

Figure 7: Uploaded file for the user access

Description : After the payment procedure the uploaded files accessed form the view files where the user can view the file content by downloading the file.

Figure 8: Cancellation form

Description: The file that has been uploaded can be deleted using the file cancellation form by entering the file key number and the password to delete the file .

Thus we presume that this web application that decide an estimating model that gives business incentive to an association utilizing cloud administrations. In large facilitating specialist organizations are charging month to monthly or yearly. In any case, our device will charge you according to your utilization of our administrations. So it will help DevOps/IT individuals in all associations will help in sparing cost control which is more economical and having great advantages. This web application can not only be used by business platforms but can easily utilized and managed by commoners, school, colleges in any such organizations since this application deliver end to end management of your cloud in order to benefit the cloud users. Provides the top class security for the confidential information where the user need not worry of the data corruption. This Manages services and private cloud which includes storing ,providing servers, sharing applications making it the most reliable ,efficient application which can completely eliminate the present challenges faced by the market.

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