ENABLING IDENTITY-BASED INTEGRITY AUDITING AND DATA SHARING WITH SENSITIVE INFORMATION HIDING FOR SECURE CLOUD STORAGE

D. RAMAN[1], J. SUJATHA[2]

[1]PG Scholar, Department of MCA, Arulmigu Meenakshi Amman College of Engineering, AnnaUniversity, Vadamavandal (near Kanchipuram), India.

[2]Assistant Professor, Department of MCA, Arulmigu Meenakshi Amman College of Engineering, Anna University, Vadamavandal (near Kanchipuram), India.

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ABSTRACT - The main goal of our project is to design a mobile application to Auditing and Data Sharing through cloud storage service, users can remotely store their data to the cloud and realize the data sharing with others. Remote data integrity auditing is proposed to guarantee the integrity of the data stored in the cloud. In some common cloud storage systems, cloud file might contain some sensitive information. Encrypting the whole shared file can realize the sensitive information hiding, but will make this shared file unable to be used by others. In this paper we propose a remote document reference id automatically convert to the QR code then just scan user module then download the particular document integrity that realizes data sharing with sensitive information hiding. Signatures are used to verify the file in the phase of integrity auditing.

1. INTRODUCTION:

New businesses are recently conceived organizations which battle for presence. These elements are generally framed dependent on splendid thoughts and develop to succeed. These wonders are specified in the writing of administration, association, and business speculations. Notwithstanding, an unmistakable photo of these substances isn't accessible. This paper attempts to conceptualize the marvel, i.e. startup, and understand the difficulties they will confront. In the wake of exploring the existence cycle and the difficulties, the paper closes with some finishing up comments. This paper looks for a decent proportion of new business execution, and afterward clarifies this measure by different measurements of business procedure. WITH the touchy development of information, it is an overwhelming weight for clients to store the sheer measure of information locally. In this manner, an ever increasing number of associations and people would like to store their information in the cloud. Be that as it may, the information put away in the cloud may be adulterated or lost because of the unavoidable programming bugs, equipment issues and human mistakes in the cloud keeping in mind the end goal to check whether the information is put away effectively in the cloud,

numerous remote information respectability examining plans have been proposed. In remote information honesty reviewing plans, the information proprietor right off the bat needs to produce marks for information obstructs before transferring them to the cloud. These marks are utilized to demonstrate the cloud really has these information hinders in the period of trustworthiness examining. And after that the information proprietor transfers these information hinders alongside their relating marks to the cloud. The information put away in the cloud is regularly shared over different clients in many distributed storage applications, for example, Google Drive, Dropbox and iCloud. Information sharing as a standout amongst the most basic highlights in distributed storage, permits various clients to impart their information to others. In any case, these mutual information put away in the cloud may contain some delicate data. For example, the Electronic Health Records (EHRs) put away what's more, partaken in the cloud for the most part contain company auditing ' touchy data (company name, phone number and ID number, and so on.) and the healing center's touchy data.

The user prepared the document in manual.

1.2 PROPOSED SYSTEM

In this paper we propose a remote document reference id automatically convert to the QR code then just scan user module then download the particular document integrity that realizes data sharing with sensitive information hiding.

1.1 EXISTING SYSTEM

The information from the audit. When associate auditor audits the accounts or inspects key monetary statements of an organization, the findings square measure typically place go into a report or compiled in a very systematic manner.

2 SYSTEM REQUIREMENTS

2.1 HARDWARE REQUIREMENTS

PROCESSOR   : Intel Core i3.

RAM   : 4 GB DDR2 RAM

MONITOR   : 15" COLOR

HARD DISK   : 100 GB

2.2SOFTWARE REQUIREMENTS

Front End   : ANDROID XML, JAVA

Back End   : MYSQL,PHP

Operating System: Windows 07

3 MODULES & DISCRIPTIONS

3.1 LOGIN & REGISTRATION

In this module we tend to style to develop login and signup screen. Android used xml to develop classical screens in our application. The modules describe signup page contains email id or user name, password and conform password those kind of details should be stored in database. Login screen contains email id or username and password when the user to login the app it should be retrieve the data to the database and combine based on user input if its match user name and password to allow in the app otherwise alert and show a message to the user.
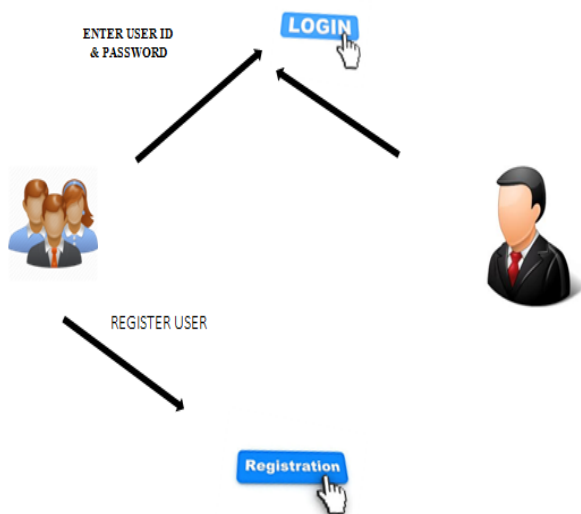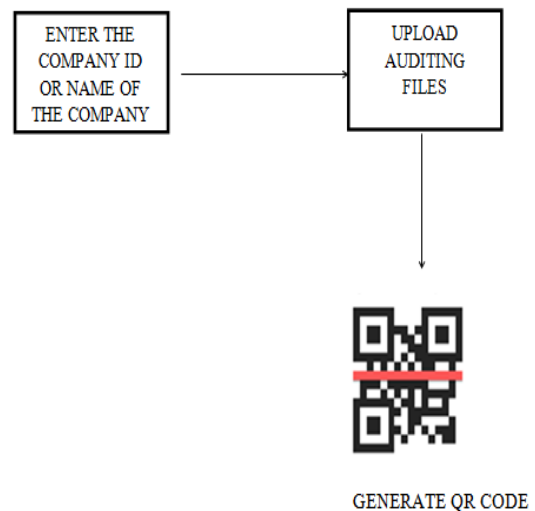

3.2 DATABASE CREATION:

User email id or user name and password have been stored after registration. Android used SQLite Database for storing and fetching user application details
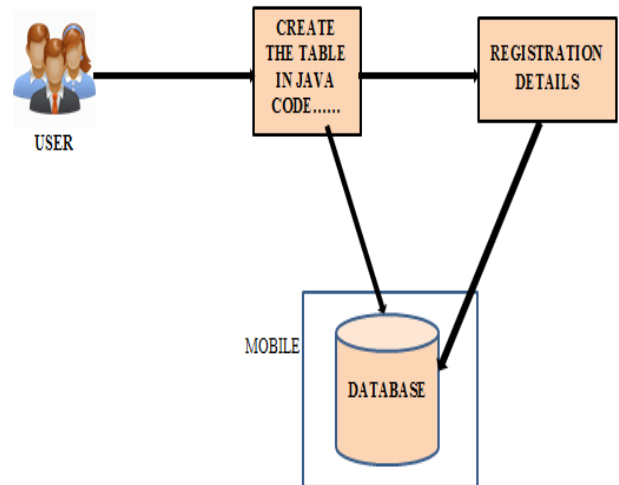

3.3 QR CODE GENERATOR

This module Used to Generate the Qr code for the User enter Key and additionally what kind of data like txt,image,etc. using php in website.


GENERATE QR CODE

3.4 SCANNAR

In, Additionally One type of application name as (Qdroid) used in this project.

Qdroid is used to Scan the anykind of User Qrcode.Initially, User1 generate the Qrcode After that Qrcode is sent to the User 2. Then User2 Scan the Qrcode and get the key.
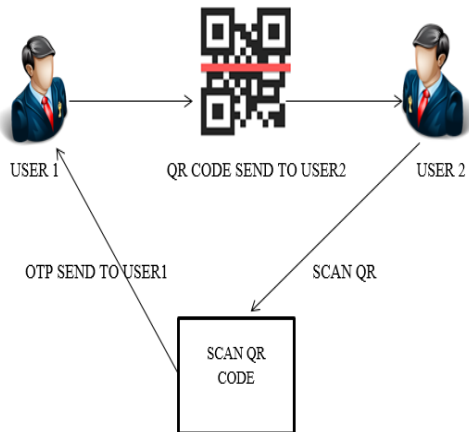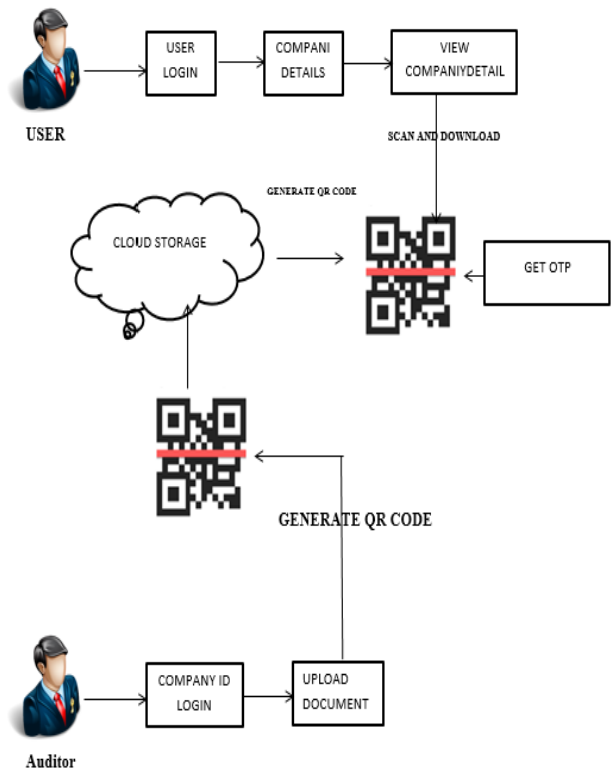

3.5 FILE DOWNLOAD

In this Module Explain that, After Getting the Key from User 2 then Enter the key in Download Process and Get the File from Server.
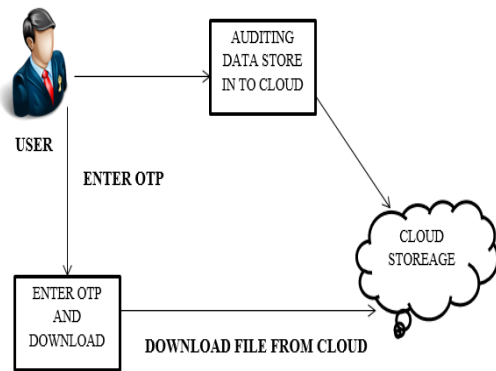
4 ARCHITECTURE- DIAGRAM

SOFTWARE TESTING

GENERAL

Cloud computing could be a model for sanctioning present, convenient, on demand network access to a shared pool of configurable computing resources. Since associate degree put down Cloud could be a giant scale distributed and interconnected automatic data processing system, interactions among its sub parts (i.e., Clouds) and among stakeholders (i.e., customers and Cloud providers) is complicated. In an Inter Cloud, computing resources in hand and administered by totally different Cloud suppliers square measure pooled to serve multiple customers, and applications and knowledge square measure accessible to and shared by a broad cluster of cross enterprise and cross platform users. Put down Cloud resource pooling and sharing involve 1) combining resources through cooperation among Clouds, 2) mapping and scheduling shared resources through coordination, and 3) establishing contracts between Clouds and customers, and among Clouds through negotiation.

DEVELOPING METHODOLOGIES

The check method is initiated by developing a comprehensive arrange to check the final practicality and special options on a range of platform combos. Strict internal control procedures square measure used.

The method verifies that the applying meets necessities laid out in the system requirements document and is bug free. The subsequent square measure the concerns won't to develop the framework from developing the testing methodologies.

UNIT TESTING

Unit checking involves the planning of test cases that validate that the inner program logic is functioning properly, which program input manufacture valid outputs. All call branches and internal code flow ought to be valid. It's the testing of individual code units of the applying .it is done once the completion of a personal unit before integration. This can be a structural testing, that depends on information of its construction and is invasive. Unit checks perform basic tests at part level and test a particular business method, application, and/or system configuration. Unit tests make sure that every distinctive path of a business method performs accurately to the documented specifications and contains clearly outlined inputs and expected results.

FUNCTIONAL CHECK

Useful tests give systematic demonstrations that functions tested square measure accessible as nominative by the business and technical needs, system documentation, and user manuals.

Functional testing is focused on the subsequent items:

Valid Input: known categories of valid input should be accepted.

Invalid Input: known categories of invalid input should be rejected.

Functions: known functions should be exercised.

Output: known categories of application outputs should be exercised.

Systems/Procedures: interfacing systems or procedures should be invoked.

SYSTEM CHECK

System testing ensures that the complete integrated code meets needs. It tests a configuration to make sure better-known and foreseeable results. Associate degree example of system checking is that the configuration familiarized system integration test. System testing relies on method descriptions and flows, accentuation pre-driven method links and integration points.

PERFORMANCE CHECK

The Performance check ensures that the output be made at intervals the points in time,and the time taken by the system for collection, giving response to the users and request being send to the system for to retrieve the results.

INTEGRATION TESTING

Code integration testing is that the progressive integration testing of 2 or a lot of integrated code parts on one platform to supply failures caused by interface defects.

The task of the combination check is to visualize that parts or code applications, e.g. parts during a code or – one improve – code applications at the corporate level – move while not error.

ACCEPTENCE TESTING

User Acceptance Testing could be a crucial section of any project and needs important participation by the top user. It additionally ensures that the system meets the useful needs.

Acceptance testing for knowledge Synchronization:

The Acknowledgements are going to be received by the Sender Node once the Packets square measure received by the Destination Node

The Route add operation is completed only if there's a Route request in want

The standing of Nodes data is completed mechanically within the Cache Updation method

BUILD THE TEST PLAN

Any project is divided into units which will be any performed for careful process. Then a testing strategy for every of this unit is applied. Unit testing helps to identity the potential bugs within the individual part that the part that has bugs is known and may be corrected from errors.

FUTURE ENHANCEMENT

Our future enhancement for identify based secure distributed data storage are

To allow user to transfer pdf files and stand out sheets.

Future research will include advancement like uploading we picture

Image, videos in encrypted format for user convenience.

CONCLUSION

Distributed data storage scheme provide the user with convenience to outsource the file to untrusted proxy servers.

Identify based secure distributed data store scheme arte a special kinds of distributed data storage scheme.

Where are user identified by the identity and can communicate without the need of verifying the public key certificated.

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