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UDMS: User Data Management System Using Firebase Cloud

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***Abstract:** This paper aims at the creation of User Data Management System using Cloud Firebase. Firebase is a relatively new Technology for handling large amount of unstructured data. It is very necessary to store and secure our important data media for future use in case of emergency as a backup. We use a firebase cloud to save and retrieve Pictures, Documents, Videos and PDF's. The present paper discuss the design and development of "UDMS" that can help the user to store their important data.*
***Keywords:** Java, Android, Firebase, Firebase Storage.*

I. INTRODUCTION

Nowadays, technology is increasingly used by human being in every field. As many wireless technologies are available to remain in contact with each others, without regard of the location.

Cloud storage is defined as "a model of data storage in which the digital data is storage in which the digital data is stored in logical pools, the physical storage spans multiple services and the physical environment is typically owned and managed by a hosting company .These cloud storage providers are responsible for keeping the data available and accessible, the physical environment protected and running. People or organizations buy or lease storage capacity from the providers to store user, organization, or application data"[10].

With the help of these Android application user store and retrieve the data by creating an account in UDMS application. By using these application people can store there data such as Images, Documents and PDF's without using their internal storage. And people can access their data from any devices with this application. Here in cloud storage data are upload, maintain and retrieve remotely. Here users allow to store files or data online, so that they can access them from any other location and other devices via the internet. In these way user don't need huge storage space in their device for important files but access them easily via this application.

Firebase is considered as web application platform. It helps developers" builds high-quality apps. It stores the data in JavaScript Object Notation (JSON) format which doesn't use query for inserting, updating, deleting or adding data to it. It is the backend of a system that is used as a database for storing data[9].

Since the usage of cloud storage has become an embedded part of business and consumer media sharing, this work aims to research and develop an application capable of managing multiple cloud storage service providers. This tool is called UDMS that, as the name suggests, serves as a unified management interface where uploading and downloading files can be done on the basis of each cloud's performance. Hence, with UDMS, the user is not worried about which cloud service to be used for what purpose[1].

II. TECHNOLOGY USED

A. Android
B. Java
C. Firebase
D. Firebase Storage

III. HARDWARE/SOFTWARE REQUIREMENTS

A. Android Studio
B. Firebase
C. Laptop/Desktop
D. Window 7 or later
E. Internet Connection

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IV. PURPOSE

The main purpose of "USER DATA MANAGEMENT SYSTEM "application is that people can store their important data in this application and they can access this data from anywhere.
In this application we are providing features of storing images, videos, pdf's and documents.

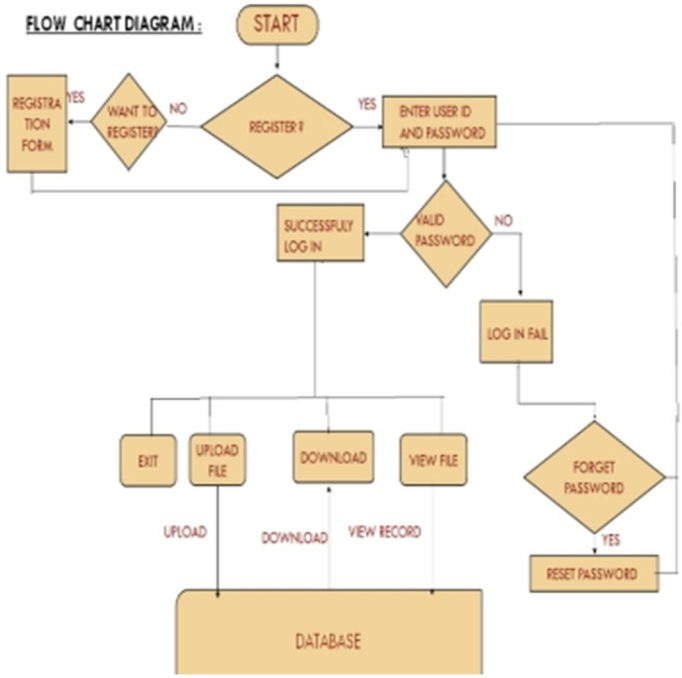
V. PREVIOUS SYSTEM

In a previous system if user lost his/her data or they lost their device then in that case they cannot have any backup of that data or their data will lost. In such scenario mail and such applications where we were storing our data but if we lost our mail password or mail get hacked in that case our whole data will be hacked and if we use other application available in market like Dropbox , deggo they also have issues regarding account deactivation or they are not providing free cloud space and Other application give less storage space.

VI. PROPOSED ARCHITECTURE OF SYSTEM

UDMS is the Android application works to store the users data from android application and retrieve it in that device or in other devices too.

Application can work on any android version which is above 4.0 .
Here application workflow starting with Splash screen of 5 seconds. Then after user entered in to login screen. But when the user come first time user need to create an account. After Registered user back to login page Here user need to login with their email and password. For user UDMS creates an option of google login also. After login successfully, user entered to the home page. Here user is capable to upload their data likes Images, Videos and Documents. The document uploaded by the user is stored into the particular user id created for particular user in firebase storage.
The uploaded data into the firebase, is to be secured by using google security framework. so that the user don't need to care about their data. The firebase cloud storage provides up to 10Gb data for the user in free of cost. If user want to increase the cloud storage more than 10Gb user must need to pay some amount. In some condition if user loss their mobile or data user is able to retrieve their uploaded data by using UDMS application in that device as well as in other devices also using their authentication id.



For uploading data UDMS provide features of camera access and also gallery access. For uploading data user can select up to 20 multiple files at a time. For user purpose user can create a folder of a particular name to get easily access of sorting data.

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VII. ADVANTAGES

A. It is more secure
B. Lifetime account accesss
C. More Storage space up to 10Gb
D. Easy to store and retrieve
E. Select multiple files at a time
F. Retrieve data in other device also

VIII. CONCLUSION

In this research and development work, we have provided a service that is capable of not only evaluating the implemented cloud services, but also provides the key features to manage data in the clouds. The project exposed us to the latest technology in the area of mobile platform development . Thus, this project is successfully demonstrated a mobile based “user data management system”.

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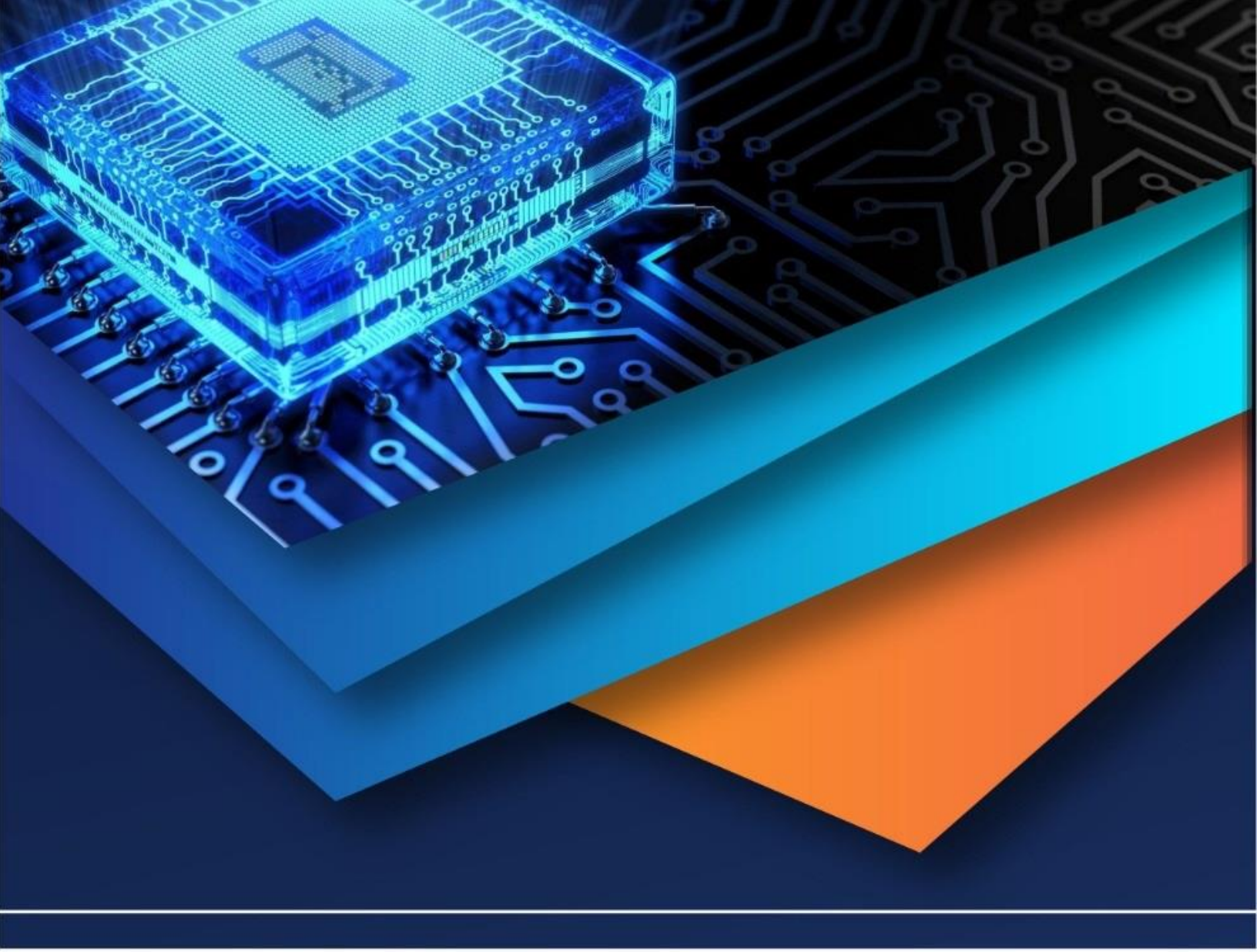

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