

# A Use of Cloud Computing For Different Task through

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**Abstract**— Cloud Computing is spreading rapidly around the world and cloud storage management applications, not only for the convenience of the users, but the load sharing and easy delivery of applications to be used extensively. Mobile cloud computing development, maintenance, and mobile devices in high-performance advantage of the benefits of cloud computing, which is an area. Mobile devices processing power, memory and fewer resources in terms of screen area since it mobile for mobile applications as little as possible should apply for work that is necessary. Presents an algorithm for dividing the load. Dynamically link cloud and all contact information will perform the actual search and search results generated will send will send the application to the cloud will be another part of maintain the result. Whenever a user applies the search for contacts, which is an application developed to work to get mobile devices. The proposed work load on the CPU requires extensive processing, which makes the load cell can be applied to any data, which is a framework.

**Keywords**— Cloud Computing, Mobile Cloud Computing, Challenges in Mobile Computing, Task Division.

## I. INTRODUCTION

Cloud Computing is a dynamic interaction between the service provider and consumers [1]. Cloud through established service level agreements based on the one or more integrated computing resources and are presented as a provision that a collection of interconnected and virtualized computer is a type of parallel and distributed system consisting of (- SaaS software as a service) to provide those services that data centers services over the Internet and the hardware and systems software in distributed applications both shows [2,3]. Data center hardware and software is what we will call a cloud. A cloud is a pay-as-you go to the public in the manner provided, so we call it a public cloud; computing. Cloud utility is being sold to a network of service (usually the Internet) that is delivered as a service over the use of computing resources (hardware and software) computing [4]. Name system in the picture that comes from the use of a cloud-shaped symbolizing abstraction for the complex infrastructure it contains. Cloud computing a user's data, software, remote services delivery and computation [5]. Cloud shared computing resources, software, and information are provided to computers and other devices on demand, which is Internet-based computing. -

Wikipedia. Given explanation, YouTube, video, Flickr, Slide share and reasonably cloud platforms like Skype can be included in a list of applications - your data (images, videos, presentations, voice) and all platforms that hold After you do this, look do not have to worry about them [6,7].

## II. CHALLENGES IN CLOUD COMPUTING

- A. Privacy
- B. Compliance
- C. Legal
- D. Open Source
- E. Open Standards
- F. Security

## III. CHALLENGES IN MOBILE CLOUD COMPUTING

User's access data from the cloud and mobile cloud computing to achieve the main objective is to provide a convenient and rapid method, such a convenient and rapid method effectively using mobile devices to cloud computing resources reaching means. Mobile cloud computing is the great challenge of mobile devices and wireless networks, as well as its own restrictions and limits, and thus the challenge comes from the characters of certain cloud devices more and more complex application design, programming and deployment on mobile devices and enables distributed [8].

Mobile cloud computing environments, to cloud computing, mobile devices, mobile, wireless communication quality, the type of application, and support cloud computing limitations are important factors that affect the assessment [9-14].

### A. Limitations of Mobile Devices

The CPU and memory, storage capacity, screen size, wireless communication, sensing, technology and operation system as different aspects Thoughts mart phones have been improved obviously in, still to deploy complex applications such as the limited computing capacity and energy resources

has serious limitations. In case contrast with PCs and laptops, i-phone 4S, serials Android, Windows Mobile serials decrease processing capacity 3 times, 8 times in memory, storage capacity and network bandwidth in the 5 to 10 times 10 times like these, smart phone . Generally, smart phone, messaging, Internet calls, dialing, community access, and other Internet applications such as surfing the need to charge every day.

**B. Quality of Communication**

Mobile cloud computing environment is constantly changing at the rate of data transfer and connection to a network overlay to the existing clearance is discontinuous. Also, Internet service providers and large enterprise data center resources in general, especially for mobile device users, are too far for end users. Wireless networks, network latency can cause delays 'last mile' of traditional wired networks but only 50 ms to 200 ms.

**C. Division of Application Services**

For a given standard, a quality guarantee providing the cloud service should consider the following facts: application of the optimum division between cloud and mobile devices, the interaction between low latency and code offload, high-speed data transmission to the cloud high bandwidth between the mobile device, user-oriented cloud application performance, mobile cloud computing, self-optimizing system, and optimal consumption and mobile devices and the cloud server overhead. The following strategies can be used to respond to the challenges [15-19]:

- Upgrading bandwidth for wireless connection, using regional data centers, mobile networks make Web content more appropriate.
- The data of the cloud in order to reduce delivery time 'edge' to deploy the application processing node.
- Duplicate mobile devices such as mobile computing devices such as virus scanning (DIC) and energy-intensive, computing-intensive data, to process, to virtualization and cloud using image technology.
- Dynamic applications push to the cloud and optimize mobile terminals division.

TABLE I. CHALLENGE AND SOLUTION OF MOBILE CLOUD COMPUTING

Challenges	Solution
Limitation of mobile devices	Virtualization and Image task migration
Quality of communication	Bandwidth Upgrading data delivery Time reducing
Division of application Services	Elastic application division mechanism

**IV. BENEFITS OF MOBILE CLOUD COMPUTING**

Mobile cloud computing processing power and data storage in particular will help to overcome the limitations of mobile devices. This 'cloud' discounted intensive application performance by moving can help to extend battery life. Mobile Cloud Computing eight major operating systems currently fragmented mobile operating system market is seen as a potential solution [20,21].

**V. EXISTING SYSTEM**

Various researchers working mobile cloud computing, has thrown light on the benefits and architecture. Major issues are associated with the lack of mobile devices and thus researchers have been listed these issues: mobile cloud computing, some projects have already been deployed throughout the world, a long way to business implementation is still there, and some research ahead of aspects to be considered in the work [20,21].

- Data Delivery
- Task division
- Better Service

**VI. PROPOSED ALGORITHM**

A search tool in mobile devices is being taken as the service (application) to map on the cloud in following steps:

Step 1: All the contact added by the user shall be stored on the cloud using an internal thread. Mobile device also stored on the cloud server.

Step 2: When the user searches for a contact then, first seen the local dataset of the mobile.

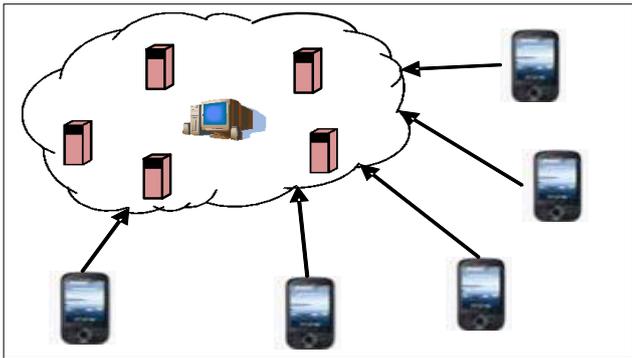
Step 3: If the contact is found locally, then it will be shown to the user mobile.

Step 4: If the contact is not local check cloud server to process the search and generated list will be displayed to the user.

Step 5: Multithreaded software will be required to search the details of the searched contact(s).

Step 6: There will also be a thread always running to receive the requirements of the user from the mobile to add a new contact, edit a contact details, and delete contact and search as required.

Step 7: The term space requirements, efficiency and bandwidth requirements shall be analyses without application of cloud.



Figure

## VII. RESULTS

The Proposed work is related to a cloud based mobile cloud computing scenario which will provide the high performance and storage management on mobile devices using task division.

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