

A Review on Web based Application in different Era of Big Data Service Platform

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Abstract:

There are so many challenges for data to store, process, extract and after extraction to find the useful data or knowledge based data. At the present scenario web based applications are easy to access to everyone. Web service platform provides an effective environment to implement different applications and share the resources to various users without carrying the large amount of data. This paper presents a different big data web-service platform for large amount of service data. The programmer can coordinate with on the web platform by sharing large amount of data, services and algorithms. Therefore, this review paper the big data platform that efficiently manage big data, developing algorithms, related services, large amount of data scientists and collaboration with end users along with services on the web

Keywords: Web-based Instruction, Web-Technologies, Web Framework, Big Data, Metadata

INTRODUCTION

In last few decades, the technology of big data influenced confidently on many factors of living person to the contribution from so many sources such as system builder, theorists, and scientists as well designers [1]. In the meanwhile, the big data development has arisen the need of analyzing, processing and storing various data. The obstacle is that each of the frameworks has various goals, it is very tough for programmer to combine different fields to solve the problems which need a single platform to solve it. Consequently, web service platform play a giant role to pass one by one service to another level and get the successful result. Recently, the big data service platform are providing various kind of services for the subscribers who have various data demands on accessing, storing and processing with level wise knowledge based system [2]. Seemingly, the web service platform provide optimized interface to end user to execute algorithm for data access. web based service provide to end user a workflow system for algorithm and data management. In the present scenario we can implement almost different algorithms in web platform because it will provide us to execute queries.

Web platform provides large dataset to use the parallel & distributed techniques. in the web platform user can make own private and virtual cluster where distributed environment will set up it

will be automated supported to large data and support in a interactive manner to complete the task there are some visualization tools viz. Google Sheets, Excel, Infogram etc and some warehouse based system, Hive and some distributed processing using SQL-like language supported by web based service [3]. There are some data processing tools such as cloud based and stand alone tools used by web platform .stand alone processing tools are such as Spss and Excel satisfy researchers needs and cloud based tools like Amazon and Alibaba to build up the data clusters to achieve improved performance. In the web platform some Data visualization technologies used for transfer data into the chart. The excel is the example of standalone visualization there are some drawbacks of excel if file size is exceed a certain threshold it does not open a full file but in Infogram can build charts and tables based on it. Its processing is slow if file is too large. There are some warehouse based data processing is so popular now days such as Hadoop, which is an open source map-reduce for being an alternative solution for process and store large data sets of hardware. Appache Hive is used for map-reduce framework and HiveQL declarative language compiled into map-reduce job on Hadoop for execution. There are some system based component used in web services for web interface, IO Components, Request Handler and Job Scheduler, parallel and Distributed algorithm run in the MPI/Hadoop/Spark clusters for support data

processing acceleration. There are some virtual operating system such as cloud based operating system provides software environment for computing a parallel and distributed data.[8]

Big data platforms provide the users to organize, collect as well as analyze large data sets to discover the patterns and knowledge based data. Without web services it takes large amount time for end users for developing service including data pre-processing, analysis, collection and the algorithm's development so web service platform introduce a new collaboration to helps users on developing their services in a efficient manner and sharing data, services and their algorithm among them. web services platform provides an interface for the end users to do our research work in a single platform in a efficient and easy way to get the better result.

I. BIG DATA AS A SERVICE PLATFORM

1. Collaborative Analytical Platform

There are various big data analytics cases e.g. sales services, lost people search, smart traffic management system, customers behaviour unwanted happing management. For proving theses services, sequences of steps are conducted on data viz. collection, pre- processing, extraction and observation. This will increase the cost of system.

But the big data use as a services platform helps in such services internally and externally. It consists of basically three layers as service, platform and software. These helps in developing cloud services efficiently by focusing on software as shown in Figure.

The figure shows that collaboration of analytical platform for big data as a service platform which provides the data management, service environment, algorithm and service development. The big data platform helps in controlling data ownership, service developer, data scientist and platform manger to share the and post the information. Here, data scientist request the data registered by owners of data to measure the algorithm performance using work flow based tool. While the service developers request the registered workflow components by scientists and support the collaboration environment to customers.

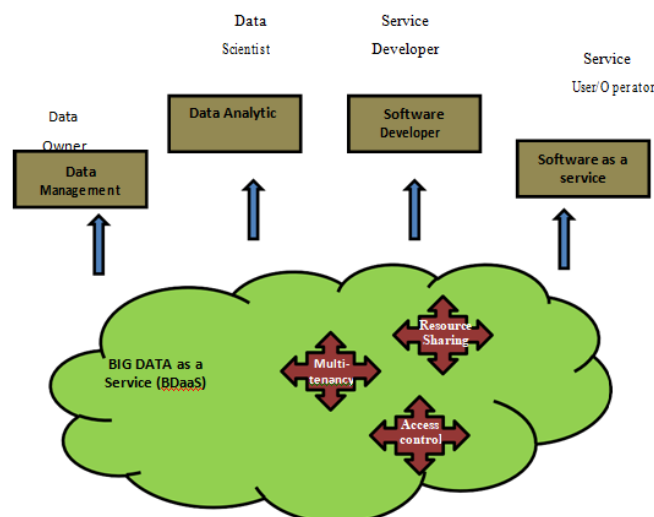


Figure 1: Basic Collaborative Big data service platform for Analytic Approach

1. Web Service Portal

Web service portal is one of the bid data as a service platform. Its main purpose is to provide facilities like users' wireless communication and sharing of information with efficient and rapid services. Here, the data, services and algorithms can be explored by multi-tenancy architecture. It provides the following web pages:

The various data owners can access the list of pages of data, modification, registration catalogue and monitoring page to manage the data. It enables for searching, and categorizing the data easily & rapidly.

It has the link which can be assessed by data scientists to access the sandbox page to develop the algorithms with editor tool with registration. Also, the algorithm's page such as list, catalogue, modification etc. can be assessed.

It can access the IDE tool page which supplies the environments like workflow and text based tool along with service list, registration, modification and monitoring page.

2. Analytical Portal

It is used to improve the productive development for users by web service portal and following tools:

Query Editor Tool: It is used to hive the relational database queries. It consists of text window, query list, and result window. These can be checked by using algorithms.

Data browser Tool: There are two data brewers'

viz. megastore which keeps database information for platform cluster and HBase which helps in input or output data of each process.

Workflow designer tool: It can define the job and monitoring the status of workflow by using IDE tool and web service model using algorithm.

Job Browser tool: It enables the customers for checking information regarding job and monitoring the status of job. It consists of monitoring tools such as cluster nodes, host and resource monitoring.

II. Review Analysis

Table 1: Review Analysis of existing approaches

Author/Year	Name of technique used	Research approach
Kyounghyun Park, Heesun Won and Minh Chau Nguyen (2015)	A collaboration of Big Data and Big Data Analytics using web based service platform	Proposed a web service portal for communication to support various big data management. In this portal demonstrated CCTV metadata analytic. This proposed method manages tools such as Query Editor, Data Browser, Workflow Designer, Job Browser and Monitoring based Tool. they developed meta-data analytic service to handle the large volume of video data[4].
Han Zhenzhen(2016)	Instruction of foreign Philosophical Web Based Theories	This proposed web service based on teaching innovation. This research grasp the Chinese characteristics systematically of western Marxist Philosophy course to carry on helping in various university students. it is a network platform so students can learn and evaluate us independently. students can skip those contents who have been grasped and learn new difficult part contents[5].
Muhammed Asif Saleem, Adam Barker and Blesson Varghese (2014)	A framework of BigExcel for Big Data using Web Based in Social Sciences	This proposed method developed BigExcel for exposing a large amount of data to facilitate to user interaction with large data sets. it is three tier web based framework. They demonstrated BigExcel through two Yahoo Sandbox datasets. first dataset for quantitatively predicting the trending technology and second for qualitatively inferring by using BigExcel. Framework: identify three big challenges on data namely accessibility for non computerscientists, ad hoc exploration with minimal effort of large data sets, and it create a availability for ad hoc analytics on the web by using light framework[6].
Qing Zhu(2017)	A Reporting Software for Data Mining using Web Based	in this proposed research author did work on IR. voltage drop, Power and EM violation to make software to identify best decision for distribution VLSI power network. For a implementation work author iterate all blocks, design iterations specified in in th configuration file and read IR report from directories and identify the dynamic and static report for each run and place them on different clusters then get IR drop map GIF file after getting IR drop get power components and EM violations .after run each file convert text

		version to html format file and hyperlink all the components to html tables and find the report[7].
Yan Li, Donggang Cao, Junming Ma, Bo An (2018)	A Visualization Tool for Web Based Data Processing	This proposed research built BDViewer for virtual private cloud system.this system uses javascript plugins to visualize a large amount of data files through a web browser. In the proposed method operations passes through web browser and convert into map to reduce jobs and MPI(Message Passing Interface) executed task on cloud.In the system architecture of BDViewer provide a user supported web interfaces(tabular format) for csv file and there are some IO Components, Job Scheduler, Request Handler provide smart job scheduling techniques and some parallel and distributed algorithm runs in Hadoop/Spark clusters to handle acceleration. The operations are automatically converted into MPI and map-reduce tasks and a virtual cloud system provide environment of software for parallel and distributed computing. The docker use as a cloud system in the BDViewer [8].
Jianwei Liu , Chunxian Xing and Yong Zhang (2017)	Big Data Management Platform for Medical Web Service	This research proposal based on healthcare field.this system provide a cloud distributed unstructured resource sharing and storing platform .the proposed system facilitate the healthcare domain .this algorithm proposed some system atomic business Library Model for smart healthcare big data and apply some data
		mining /Deep Learning Algorithm for processing .there are some atomic semantic rule sets for this model such as generation, optimization semantic rule. web semantic web service and semantic rule set combined and getting the decision support system. Form medical healthcare[9].
Hansung Kim, Josep Blat , Alun Evans and Adrian Hilton,(2016)	Data Registration Visual Multi-model for Media Production visualization in web	In this paper, the registration and visualization of 2D/3D combined data with unified framework on film and broadcast has been proposed. The results show that resulting registered 2D/3D data is very large for downloading by maintaining the users' experience. This method will enable for providing compression & hierarchical techniques, browser's videos, 2D images, higher

		precision, stable performance and various art methods for web-based big media data visualization [10].
Zenon Chaczko, Robin Braun and Samuel Kirkpatrick (2013)	A Web Based Solution to Manage, Analyse and Collect Response Data for Auditory Brainstem	A proposed method based on the Auditory Brainstem Responses (ABR) to test the hearing threshold by connecting large numbers of ABRs by using eXtreme-Programming (XP) method. This allows flexibility and reliability. The future will be focused on collecting image data, expanding the database interface, more integration etc[11].
Azer Nouita, Rafik Braham and Lilia Cheniti-Belcadhi (2017)	A Web Based Semantic Architecture for Assessment Analytics	In this paper, assessment data architecture has been presented. It shows that the proposed architecture uses web technologies by focusing on analysing the assessment
		activities, results and context. It is conceived, annotated with ontological model for performing logic rules to support mechanism interface and concrete level of difficult assessment level. This will improve the learning analytical field[12].
Josep Blat , Alun Evans Javi Agenio, (2015)	A Visualization Approach to Combined 2D and 3D of Onset big media data	In this paper, web-based applications to allow the visualization on metadata, combining image processing with 3D has been presented. It has been presented that application of Big media Data and integration of multiple data formats with various modalities and processing ways positive outcomes[13].

III. Conclusion:

The distributed/parallel programs in the present time are a huge barrier for the end users. In this review paper, multiple web service platforms for big data visualization and processing data have been presented. Programmer can use a web platform for executing algorithm and get result of various research fields because web platform provides to end user level by level services in various aspect. So it is an open platform for end user to get result of their related work without installing software. This paper play a big role for those researcher who are going to do their research work through web browser .they can easily find out how much work has been done through web platform in different areas. Here, only those type of research work which is implemented through web platform has been introduced.

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