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Survey on Current Technologies for Web Development

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Abstract

Web-based application developers are introduced through a wide variety of options, languages, structures and technical items. We test, identify and compare technologies that help create web applications. We conclude, while web connection problems have been greatly resolved, a cacophony of Web-based application technologies represents lack of a solid model designed for this background.

Keywords: Technology, NoSQL, MySQL, Angular, NodeJS

INTRODUCTION

The world has changed in the mobile , but still no app can work as web-based applications. The proliferation of continuous web applications that perform functions such as mobile applications emerge over this. Therefore, it is clear that web applications will remain and continue for a long time to come. What makes these web applications worth investing in is the use of advanced measurable technology or simple terms, using state-of-the-art stack technology. In addition, business entry and application performance can be enhanced with the most appropriate technical stack. The use of poor technology stack can also lead to the failure of the entire project. Therefore, it is important to carefully consider the web development stack that will be used for project development.

DIFFERENT SOLUTIONS

This section reviews the various technologies currently available for web development

1) In this paper it has presented a comparative study of non-relational databases and information details. It focuses on the introduction of a single application of NoSQL website technology, MongoDB, and draws a comparison. via MYSQL which is another database and tries to explain why MySQL is less popular and less efficient than MongoDB. It also discusses the disadvantages of using a dating site compared to an unrelated website. The forum is developed using MongoDB, a NoSQL website selected from various unrelated data. The database integration in the framework is also be presented. If the application uses data and stores a lot of data and queries, we may choose MongoDB instead of MySQL. It should also be noted that in some cases, each user needs his or her individual settings in the same application and the contact database does not allow full customization based solely on the needs of the users. Therefore, growing applications are starting to use unrelated websites, as they offer a more flexible framework that can be tailored to the needs of each user.

2)

Benefits of Using AngularJS to Create a Framework, NodeJS Design The background web server and the benefits of MongoDB-based data storage operations are discussed this paper. This paper focuses on MongoDB solutions for large data storage and MapReduce-based analytics solutions. This paper discusses how Web services are tailored with NodeJS-based data recognition needs. Within this paper, a detailed monitoring plan design is developed. The primary technologies used in system design was first discussed. It also primarily introduces the framework architecture, MongoDB database-based storage solutions and the MapReduce-based analysis solutions. Finally, this paper introduces the Express Supervision Framework application and statistical analysis modules. Machine learning is to be used in future.

3)
In this paper, it characterizes the runtime behaviors on an evolving server-side application JavaScript, Node.js, compared to JavaScript's client-side code. The operating time profile indicates that the V8 C ++ library used for server uploads has been used in large quantities (47.5% on average) of the total CPU time, while it is only 3.2% on the client-side. The study on the server-side system of complex call contexts shows that function calls to V8 operating time for JavaScript objects leads to higher CPU usage in V8 library. We focused on the overuse of the V8 library code with CPUs and analyzed the call stacks in detail during the execution of the library code. The function uses the C ++ code of the JavaScript server next to the server using the node.js API, and native code in the package node module is one

4)
In This paper discusses recent developments that have gained popularity in the JavaScript server side, Node. js. It is a framework for designing high performance, parallel and I / O-based programs that are not compatible with the event-driven planning model and not a multi-thread learning method. Given that JavaScript information is essential for special UI interactions, the idea of using one programming language for everything becomes quite tempting. Node Architecture. js makes it easy to use effective and efficient language with the server system, without operating problems and exiting the system standard.

5)
In this paper few possible security measures are outlined to be aware of when using Node.js platform and server-side JavaScript. It also identifies two risks and provides recommendations for the development and configuration of a secure and robust Node. js web applications. It analyzed the security implications of the architecture and technologies used in the Node.js platform. New rejection of service risks in the area is discussed in the paper. Its analysis has shown that while the platform is suitable for production use in other applications, it should be avoided in critical security systems. This is because the model is not yet mature and some security issues are natural. A safety-conscious system will avoid many of the problems we have highlighted. However, errors with Node.js applications are much more common as programmers lack extensive experience in writing longstanding server-side JavaScript asynchronous applications.

6)
In this paper discusses the issues of utilizing the Aspect-Oriented Programming concept, and demonstrates this approach through Angular 2, a JavaScript framework and compares it with the traditional how to improve. The new Angular Framework enhances better editing paradigms. TypeScript with type control and support for ANGULAR annotations provides a high degree of language sensation to the customer program. This will however increase the volume of code and restatement of information. This article talks about the library and makes form creation a better experience in this context. Easy use of the library allows programmers to specify configuration entries in the server application, where inputs are generated in JSON and transferred to Angular. Submissions are made in flexible forms. Coding is easy, looks comfortable and lasts a long time. This is especially noteworthy when it comes to multiple types or supports context-aware user interfaces. Research shows the impact on learning, coding volume and efforts to save pieces in performance.

7)
In In this paper, the specific characteristic traits of MongoDB and the design principles were researched and based on an analysis of the model form that contradicts the norm was proposed. This method is based on data-dependent theory and uses classification or joint data strategy to develop the logic schema of non-related databases for different dependencies. This article gives the application of MongoDB in BBS information collection system. The data storage structure and

queries are designed, and the advantages and disadvantages of the data structure, query and rating are mentioned. The related website contains a number of tables with external keys, a sharp decline in the efficiency of queries with large amounts of data and the high cost of vertical distortion.

8)
In this paper a pragmatic study was performed to understand how JavaScript developers make use of various language features and assist future extensions of JavaScript. Research shows that there is a clear uncertainty about the newly introduced features. Tool developers can study the requirement for better IDEs and tools and programmers can study about the good parts of JavaScript.

9)
This paper deals with the test and the difficulty of measuring, versatility and processing capacities of traditional relational database management systems (RDBMS) by incorporating hierarchical, semi-structural and unstructured data. New structures require that information sites be measured horizontally. The data in the databases must be stored and processed in various formats, including unstructured data. These questions are answered through NoSQL methods. The conventional approach to relationship and objective-driven DBMS can't adapt to today's systems with the flexible scaling necessary. Similarly, a large website has been created. But specialized technologies that can support these sites have not yet been developed. These large bins cannot be stored on a single portable device. A collaborative system for this is recommended. The NoSQL framework can be used for the specific purpose of improving informal data processing. To investigate the suitability of a NoSQL website, a NoSQL website, document-oriented MongoDB, often using JSON data is discussed. An administrative tool has been developed in the research to evaluate the MongoDB database scheme. There are two algorithms: one for site analysis and one for integrated analysis. Automatic testing and real users test the created solution. The solution was calculated to be quicker than the solutions already available.

10)
The purpose of the paper was to create a web-based management link for the MongoDB website to analyze the database. Potential user needs and similar solutions to existing ones have been considered and the app is designed. The tool is made up of a console application that analyzes results and a web application that detects results. Console application can also be used and integrated into other tools separately. The app is faster than the solutions available, the richest and most automated tests and real user tests performed.

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