Enhancement of QOS Based Approach in Online Travel Agency

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Abstract - **Web service is a technology that provides flexibility and interconnection between different distributed application over the internet and intranets. When there is a large number of web service available, we use web service composition to increase the efficiency. In this paper,we use bees algorithm to composite the services together service data can be queried and a new subspace is built for each loop from which feasible solution can be calculated. In existing system globally optimized solution is not guaranteed it decreases the efficiency. In proposed system we provide global optimal solution through which the efficiency is increased.**

Keywords:Incremental query ,quality of service(qos).

1.INTRODUCTION

Web services have received much interest to support business-to-business or enterprise application.web service converts our application into web application. It is a method of communication between two electronic devices over the World Wide Web. Through SOA architecture the services are published, find and bind together. They are said to be self-described and self-contained.web service can be created by composing more specialized web services for ticket booking services in online.

When a client request cannot be satisfied by any individual service, exisisting web services can be combined into a composite web service. In such a process of composition, selection of an appropriate web service from a large number of available alternatives is the chief task.

Widely available and standardized web services make it possible to realize Business-to-Business Interoperability (B2Bi) by inter-connecting web services provided by multiple business partners according to some business process: For example an travel agency is created using multiple services to book tickets in online such as booking tickets through bus, train and airline. Because of increasing homological and similar services in functionality at services repertory, it is very important to select services based on non-functionality attributes– QOS(quality of service) attached to each service. This paper describes the application of the Incremental Query Construction Algorithm through which adequate results are obtained. We present IQ a novel system that aims at bridging the gap between usability of keyword search and expressiveness of database queries. Using IQ, a user can benefit from both, a conventional ranking interface and a more controllable query construction interface.

2.PROPOSED SYSTEM

In our proposed system we present IQ, a novel system that aims at bridging the gap between usability of keyword search and expressiveness of database queries.

A user can benefit from a conventional ranking interface. We have implemented ranking system to provide better efficiency to the user.

3.RANKING PROBLEM

Ranking represents the result of query ranking interface. A ranking is a relation between a set of items such that for any two items, the first is either 'ranked higher than', 'ranked lower than' or 'ranked equal to 'the second. It is not necessary a total order of objects between two different objects can have the same ranking. The ranking system describes about the priority given by the users for various services. According to the priority the best services are provided to the user.

The combination of two services using ranking system can improve only if the two individual services have relative good performance. It is used to improve the retrieval performance and how the combined service can perform better than its individual service. For example: if service A ranks ahead of services B and C

then service A gets ranking no 1 and service D gets rank 4,service C gets 3 and service B ranking 3.
This system is not used in the existing system so that we attain a problem not obtaining a adequate result. Whereas by using ranking system in the proposed system we provide adequate result to the user.

4.ARCHITECTURE DIAGRAM

Architecture diagram shows the relationship between different components of system. This diagram is very important to understand the overall concept of system. Architecture diagram is a diagram of a system, in which the principal parts or functions are represented by blocks connected by lines that show the relationships of the blocks. They are heavily used in the engineering world in hardware, electronic and software design, and process flow diagrams.
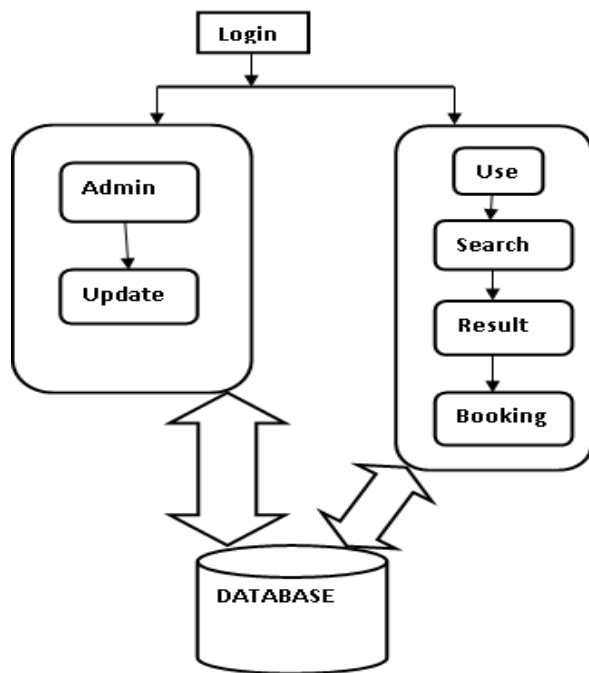

Figure 1:Architecture of proposed system
This is typically used for a higher level, less detailed description aimed more at understanding the overall concepts and less at understanding the details of implementation. In system architecture, the user searches using keyword and the results are retrieved from the database. Then the user can perform booking. The admin has the rights to update the database

5.A MODEL FOR QOS BASED DISCOVERY

A new web service discovery model in which the functional and non-functional requirements are taken into account for service discovery. It is a new type of component that can be invoked over the internet. It has an interface described in a machine process able format(i.e. WSDL).The QOS attributes is different from a variety of end-users factors. Each provider must define its model while delivering their services. In this paper, we consider five typical quality of attributes: Availability, Execution cost, Reliability, security, Efficiency to model the web services. The brief explanation of each attributes is as follows:

Availability:
The availability is the probability that the users requested service is accessible and it should be available for immediate use.

Execution cost:
Execution cost of an operation is the fee that a user has to pay for using the service and executing its operation.

Reliability:
The reliability is an trustworthiness of a service which is provided by an providers. It also measures the degree of compliance with the actual value.

Security:
It does not allow any unauthorized members to access the services. The authentication is done for each user login into the site.

Efficiency:
It provides the user with better speed and performance. This can be improved only by using the ranking system which provides the user with best services.

6.WEB SERVICE SELECTION BASED ON INCREMENTAL QUERY CONSTRUCTION ALGORITHM

The user interface of IQP consists of
1. A search field to input keyword queries,
2. A query construction window to present query Construction options. In a query construction process, the user is presented with a number of query construction options, i.e., partial interpretations of the keyword query.
3. A query window listing structured queries, and

4. A result window for presenting search results.

When a user issues a keyword query, IQP provides the user with a ranked list of structured queries (as interpretations of the keyword query) and then the corresponding results will be provided to the users, which are presented in the query and result will be produces in the window respectively. If the user identifies the desired structured query, they can double click the query to retrieve its results.

7.EXPERIMENTS AND RESULT

This page represents how to search and book tickets in online using the ranking system.
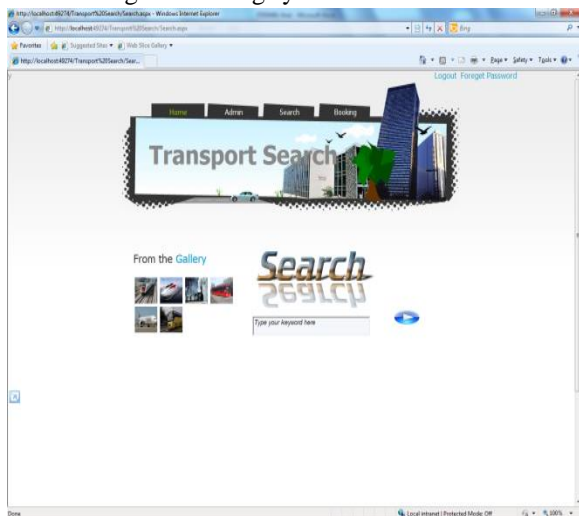
By using this ranking system the user can enter keyword and thus the best service is provided to the user by providing the accurate results.

8.MODULES DESCRIPSION

Number of modules:
- Authentication
- Admin
- Search
- Booking

Authentication

This process involves in providing legal access to the user. Legal access means when a user enters the username and password. The username and password will be matched with the database. If the user name and password matches with the existing username and password in the database, then the user will be allowed to access the site.

Admin

The admin will be collecting the detailed records to be updated to the database. Then the admin will be updating the database with the collected details. This will be giving more search results to the user to get the data.

Search

In the search module user enters the keyword then the user will be given a Interactive pop up window to select the relevant choice of what they want. As per their choice the user will be given the result which matches the choice with the database.

Booking

After the user searched the result the user can select the link then the user will be redirected to that link and it will give you the complete details and if the user wants to book the tickets. The user can select from the list of details and the user can book the tickets.

9.CONCLUSION

We presented IQP—a novel system, which enables construction of structured queries from keywords. We presented an algorithm for generating optimal query construction plans, which enables the user to obtain the intended structured query with a minimal number of interactions. Our experimental results and user study show that IQP is highly helpful when user intended structured queries cannot be found within the top-ranked results. As a part of future work false hit has been implemented for the betterment of the services provided to the user.

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