



Designing Implementation End Server Development Using a Novice Programming Methodologies

Dr G.Ranjith*, Dr A.Brammananda Reddy**

Assistant.Professor*, Associate. Professor**

Dept. of CSE, VNR Vignana jyothi Institute of Technology
Hyderabad, India

Abstract: An Artificial Intelligence and Ontology Based Skeleton design and source code implementation on the system is known as the Novice, which is one of the fast growing and rapidly used programming methodology for the end server development. In this paper, we discussed different formatting methodologies and mechanism which helps the programmer in retrieving the readymade source code for templates and skeletons, which even retrieves the formats from basic to the high-end programming code. It mainly concentrates the web development along with the workflow and security based transaction management. It mainly concentrates on the integrated language development along with the syntax and semantics which explore the modern programming methodologies that applies the real time monitoring mechanism. A Practical Implementation of End Server Development is done with the Novice Programming Methodologies, finally the graphical and data analysis is given along with the final output.

Keywords: Novice, End Server, Ontology, Artificial Intelligence, workflow, security

INTRODUCTION

System Analysis and Design is the basic step involved in developing the project, where the requirement analysis is done by the most common way in identification of the functional requirements and model transformations of systematically designed software architecture based skeleton design for the insertion of different codes that may suitable for the requirement of the user, where different templates will be provided for the novice user for the selection of choice regarding the requirements. when a user is in such a situation to understand, which template will be used based on the category of the session or module. Requirements engineering is a basic model that engages the research and analysis of the critical portion of the software development with the help of the feasibility study, it is possible to develop a systematical model in such a way that it can be understood by the software engineers and developers with the help of unified model language [1].

The Use Case Model Includes all the functional and transformation rules that can be implemented in identifying model to model rules. Source code is divided into different procedures, functions, methods and modules and these source code can be called by the novice programmers, where different library files are provided to inherit required results without having much knowledge on developing code [2].

Automatic testing methods are implemented based on the novice user requirement, even the simulation based testing is possible to acquire the test result as to protect from the long-standing waiting regarding the final test result, it provides the quick results based on the scaling method [3].

RELATED WORK

Design and Implementation of a mental model is used to explain the behavioral changes and the categorizes the way that the users have the inter work; it is an artificial intelligence based neural network model. Many organizations all over the world uses the Novice for

different services, these are having many software engineering templates, concerns that is related to the Novice provider and customer. It is a secured central form of service, where remote services are provided. The provider must be reliable and should protect, with unique security and technical issues that the Novice can be improved with the help of artificial neural networks. As the functionality is over the internet, where it will be a communicating medium between the customer and provider, as the customer will not have any idea where templates are originate, he uses different software and engineering techniques that are to be implemented to make changes as per his usage. Novice storage centers available all over the world as there are different resource centers mainly used for web and utility services [4].

The Emerging technologies of computational intelligence applied to solve dynamically the complex security problems automatically without human involvement with the help of the auditing system within a time span using artificial neural networks for the cloud security management. Optimization techniques are implemented on the auditing process for the improvement of the speed and time, where space is reduced due to eradicating the redundancy. Machine learning processes is the process implemented using learning process where knowledge is acquired by the network from its environment. It improves the security and information processing abilities that make neural networks based on artificial intelligence to solve security problems such as risks, threats and attacks [5].

Many Research issues are knowledge based security mechanisms where artificial intelligence plays a great role in improving security. Attacks on data centers and networks may be happen when data is in rest or at transit. As Security is the major research issue for all networks interrelated with the cloud environment, different mechanisms have been designed and implemented to secure network communication. Security can be provided to the communication channels using firewalls, anti-virus

software's, data encryption technologies and virtual private network (VPN). For identification of risks the intrusion detection system will be designed and implemented to protect cloud from risks, threats and attacks by monitoring the network activity. Pattern matching methods and genetic algorithms are used for the detection of the intruders. As the intrusion detection system searches for the Network Traffic and tries to capture different patterns or user behaviors which compare the stored signatures. Pattern recognition plays a vital role in recognizing the intrusions by network behavior analysis and data mining technologies [6].

Fuzzy logic is a mathematical tool for calculating the uncertainty. It provides a technique to deal with fuzziness, information granularity and it has been the subject of important investigations. A sharp mapping between input and output and security models for the network will be developed by using the fuzzy logic. Research issues are in an emerging approach to computing, security which parallels the remarkable ability of the human mind designing the intelligent systems with neural networks that recognize patterns and adapt themselves to scope with changing environments, that incorporates the reason and learn in an environment of uncertainty and fuzziness. It is an approach to design and implement the constructing computationally intelligent systems, has just come into adoption of the problem solving methods with machine intelligence [7].

The fuzzy inference system is a framework based on the different concepts related to the fuzzy logic such as fuzzy set theory, fuzzy reasoning and fuzzy conditional rules. It is an application that is used for artificial intelligence and the network security system for automatic control, data classification based on fuzzy conditional rules and validation rules. It is an expert system, time series prediction, robotics and pattern recognition methods that are implemented in the multi-disciplinary activities such as medical, scientific and reasoning mechanisms. The major methodologies and technologies used in neural networks, fuzzy logic and artificial intelligence are data classification, security approaches, optimization methods and simulation. In real world environments these are used for the decision making, modeling and control problems [8].

MATHEMATICAL MODELING

The complexity of the problem should be calculated mathematically and finally way for solution to the complexity to be driven, for that graph theory is adopted and that is shown as the mathematical structures to describe the relation between the complexities and statistical analyses where the properties are verified [9]. The End User Development is a learning process which is represented in graphical where it implies the bond between the user and the developer, which comes under connectivity based graph where the frame work and tool for the specification as per the user requirement and the generation of web applications are designed automatically using the artificial intelligence techniques. Ontology and Artificial Intelligence mechanisms are implemented based on mathematical modeling, which considers the studies of web browsing behavior. Mathematical modeling for problem solving is

possible for novice programmer for the end user benefit, hence a great number of different types of problems can be solved using different theories, formulas, and mechanisms [10].

As a Part of Designing and Implementing Mathematical based definitions and procedures, we used the MathML that is Mathematical Mark Up Language, which is used for defining the problems and background software is extendable markup language which is used to create formulas, theories, and concepts. Its main advantage is it can be embedded with the web based languages. Retrieval plays a major role, the Search based algorithms should be implemented to get the easy retrieval of the required output [11].

EXPERIMENTAL ANALYSIS

End User Development(EUD) is drawing an increasing attention due to the essential odd users to frequently extended and personalize their applications. EUD in the context of web which is known as EUD Web is focusing on technologies capable of supporting development tasks that end-user feels more complex. However, although the specification and implementation of the access control is perceived as a particularly complex task, that made efforts which have been made to support it with in current EUD-Web environments. Thus, in this paper we propose on EUD web frame work and tool provides the specification and the generation of web application embedding access control mechanisms. We extended a previous mock up based end web approach. EUD Web Tool provides the facilitation to apply the conditional operator's such as the 'if-then' when there is evaluation of logic and relational operators can be used in the Novice programming, this tool provides the security features such as authentication and authorization where only authenticated persons can use the authorized areas where such as layouts, forms, templates, and other links to servers [12]. It also provides permission management as a built-in-features, where the Data Base is link made easy with this software, which provides easy search, retrieving the data and uploading /downloading the files which comes under particular database schema. Where the end user development tools is the relationship of usability and expressiveness. EUD web designed for a goal is to make the effort requirement more proportional to the complexity of the problem [13].

The major concepts that are concentrated in creating the End User Development Environment is Session management, where user shifts from one session to another, and time management for the session is an important concept where logout is required when session based on speculated time. Input fields must be secured with the validation rules so that unrelated data cannot be inserted into the database. Security is the major concern As Ecommerce Applications can be included with the Authentication and Authorization the end user is restricted to the limitations [14].

End User Development tools are designed to implement software applications as per easy requirement, it also used to implement source code for the technical end users and domain experts. An evaluation process takes place using virtual private network using the domain based portal which provides a virtual IP address for further communication between the end user and service provider [15].

FUTURE WORK

Design of multi mental models based on End User Development expose their functionality which gives hints where certain solutions are appropriate at that position or not which provides the result to the transparent support of certain frequently used functionality, such as session management and search methods. Cross platform compatibility, reliability and more secured EUD systems are left for future work [16].

REFERENCES

- [1] M. Al-Sammarraie and K. Umapathy, "A Research Plan to Study Impact of a Collaborative Web Search Tool on Novice's Query Behavior," 2016 International Conference on Collaboration Technologies and Systems (CTS), Orlando, FL, USA, 2016, pp. 539-544.
- [2] W. Silamu and Lin Kang, "Design and implementation of distance learning system based on .NET component technology", Proceedings ITCC 2003. International Conference on Information Technology: Coding and Computing, 2003, pp. 608-611.
- [3] K. O'Toole and P. Salopek, "Next generation graphical development environment for test," 1998 IEEE AUTOTESTCON Proceedings. IEEE Systems Readiness Technology Conference. Test Technology for the 21st Century (Cat. No.98CH36179), Salt Lake City, UT, 1998, pp. 145-148.
- [4] S. Abrahão, E. Insfran, J. A. Carsí, M. Genero and M. Piattini, "Evaluating the Ability of Novice Analysts to Understand Requirements Models," 2009 Ninth International Conference on Quality Software, Jeju, 2009, pp. 290-295.
- [5] J. Vijaya Chandra, Narasimham Challa, Mohammed Ali Hussain, "Data and Information Storage Security from Advanced Persistent Attack in Cloud Computing", International Journal of Applied Engineering Research, vol. 9, no. 20, pp. 7755-7768, 2014.
- [6] E. Araujo, M. Gaudencio, D. Serey and J. Figueiredo, "Applying spectrum-based fault localization on novice's programs," 2016 IEEE Frontiers in Education Conference (FIE), Eire, PA, 2016, pp. 1-8.
- [7] R. Singh, S. Gulwani, A. Solar-Lezama, "Automated feedback generation for introductory programming assignments", PLDI, pp. 15-26, 2013.
- [8] J. V. Chandra, N. Challa and S. K. Pasupuleti, "Advanced Persistent Threat defense system using self-destructive mechanism for Cloud Security," 2016 IEEE International Conference on Engineering and Technology (ICETECH), Coimbatore, 2016, pp. 7-11.
- [9] J. Vijaya Chandra, Narasimham Challa, P SaiKiran, RK Thirupathi, RV Krishna, "Numerical Formulation and Simulation of Social Networks using Graph Theory on Social Cloud Platform", Global Journal of Pure and Applied Mathematics, vol. 11, no. 2, pp. 1253-64, 2015.
- [10] J. Vijaya Chandra, Narasimham Challa, SaiKiran Pasupuleti, "Intelligence based Defense System to Protect from Advanced Persistent Threat by means of Social Engineering on Social Cloud Platform", Indian Journal of Science and Technology, vol. 8, no. 28, October 2015.
- [11] N. Cui, D. Liu and L. Liu, "A design of MathML web based formula search system," 2012 2nd International Conference on Consumer Electronics, Communications and Networks (CECNet), Yichang, 2012, pp. 28-30.
- [12] A. I. March, "End-user development and learning in second life: The "box" as multipurpose building block," 2016 IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC), Cambridge, 2016, pp. 208-212.
- [13] V. Tzeremes and H. Gomaa, "A Software Product Line Approach for End User Development of Smart Spaces," 2015 IEEE/ACM 5th International Workshop on Product Line Approaches in Software Engineering, Florence, 2015, pp. 23-26.
- [14] V. Tzeremes and H. Gomaa, "A Software Product Line Approach for End User Development of Smart Spaces," 2015 IEEE/ACM 5th International Workshop on Product Line Approaches in Software Engineering, Florence, 2015, pp. 23-26.
- [15] G. Hains, C. Li, N. Wilkinson, J. Redly and Y. Khmelevsky, "Performance analysis of the parallel code execution for an algorithmic trading system, generated from UML models by end users," 2015 National Conference on Parallel Computing Technologies (PARCOMPTECH), Bangalore, 2015, pp. 1-10.
- [16] Y. Khmelevsky, G. Hains, C. Li, "Automatic code generation within student's software engineering projects", Proceedings of the Seventeenth Western Canadian Conference on Computing Education (WCCCE '12), pp. 29-33, 2012, May.