**WEB SERVER LOG ANALYSIS SYSTEM**

**by**

**PRAVEEN K,**

**VIJAY KRISHNAA S,**

**SANTHOSHKUMAR P.**

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**Sri Ramakrishna Institute of Technology**

**Coimbatore – 641010**

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**APPROVAL AND DECLARATION**

This project report titled **Web Server Log Analysis System** was prepared and submitted by **Praveen K (1702082), Vijay Krishnaa S (1702128), SanthoshKumar P (1702106)** and has been found satisfactory in terms of scope, quality and presentation as partial fulfilment of the requirement for the **Bachelor of Engineering (Computer Science and Engineering)** in Sri Ramakrishna Institute of Technology, Coimbatore (SRIT).

**Checked and Approved by**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Mr. Jim Mathew Philip**

**Assisstant Professor**

**Department of Computer Science and Engineering**

**Sri Ramakrishna Institute of Technology, Coimbatore – 10**

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**LIST OF SYMBOLS, ABBREVIATIONS OR NOMENCLATURE**

IP Internet Protocol

UA User-Agent

GUI Graphical User Interface

CSV Comma Seperated Values

HTML HyperText Markup Language

DoS Denial Of Service

SEO Search Engine Optimization

**WEB SERVER LOG ANALYSIS SYSTEM**

**ABSTRACT**

This project analyzes the log files of the web server and generate visuals for better understanding of the information in the logs. Log files from the web server are fed as input to the system and it reads the entire log file line by line and stores the data in memory and performs analysis on the data and then the final part of the program is to generate the visuals based on the analysis of the data. The data that is visualized: IP address and the total number of requests from them, request methods like GET, POST and the count of each request methods, the User-Agents used the clients, finally the files that are requested by the clients and frequency of their access. This project can analyze logs from the Apache Web server. From the output provided by the project, we can perform a wide range of tasks. If we find a specific User-Agent requests are increasing, we may develop the features for that specific User-Agent. If we see some alarming rates of requests from a specific IP address, it may be an attempt of Denial-of-Service which may need further investigation, it is also useful for Incident response.