(12) PATENT APPLICATION PUBLICATION   (21) Application No.20241103640 A

(19) INDIA

(22) Date of filing of Application :27/04/2024   (43) Publication Date : 10/05/2024

(54) Title of the invention : LOW LATENCY CONTENT MANAGEMENT SYSTEM

(71)Name of Applicant :
  1)K. R. Mangalam University
    Address of Applicant :Sohna Road Gurugram Haryana India Gurugram ----------- -----------
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
  1)Prof. (Dr.) Neeraj Khattri
Address of Applicant :Dean, School of Journalism and Mass Communication, K. R. Mangalam University Gurugram Haryana India 122103 Gurugram ----------- -----------
  2)Dr. Ritwik Ghosh
Address of Applicant :Assistant Professor, School of Journalism and Mass Communication, K. R. Mangalam University Gurugram Haryana India 122103 Gurugram ----------- -----------

(57) Abstract :
The low latency content management system is a revolutionary solution designed to optimize content delivery across diverse network environments. Comprising a dynamic caching storage unit 110, an AI module 120 with content prioritization protocols, and a processing unit 130 with real-time content processing capabilities, the system 100 minimizes latency and enhances efficiency. The dynamic caching storage unit 110 strategically stores frequently accessed content items in a distributed cache network, while the AI module 120 dynamically assesses and prioritizes content based on user preferences and demand. Leveraging optimized network protocols, such as WebSockets and HTTP/2, content delivery latency is further reduced. The processing unit 130 generates dynamic content updates and personalized recommendations in real-time, with scalability and elasticity features ensuring responsiveness to fluctuating demands. Seamlessly integrating with external data processing engines, the system 100 delivers an exceptional user experience by optimizing resource utilization and maintaining low latency across diverse network environments. Refer to Figure 1

No. of Pages : 15 No. of Claims : 6