

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511100841 A

(19) INDIA

(22) Date of filing of Application :17/10/2025

(43) Publication Date : 05/12/2025

(54) Title of the invention : A CLOUD-SUPPORTED TOOL FOR AUTOMATED SOFTWARE VERSION CONTROL

(51) International classification	:G06F0008710000, G06F0016230000, G06F0016270000, G06F0009500000, H04L0067100000	(71) Name of Applicant : 1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
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(86) International Application No	:	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a cloud-supported tool for automated software version control (100). The system comprises a developer interface (101), a cloud synchronization engine (102), an automated branching and conflict resolution module (103), a secure repository database (104), an audit and compliance engine (105), a CI/CD integration module (106), and a user analytics dashboard (107). The invention ensures real-time synchronization, AI-driven conflict resolution, compliance-ready logging, and seamless integration with DevOps workflows, thereby enabling efficient, secure, and collaborative software development in cloud environments.

No. of Pages : 14 No. of Claims : 6