(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/03/2026
(21) Application No.202611037227 A
(43) Publication Date : 08/05/2026

(54) Title of the invention : AN AUTOMATED CODE REVIEW SYSTEM USING NATURAL LANGUAGE PROCESSING

(51) International classification	:G06F 9/44, G06F 11/36, G06F 17/27, G06F 17/30, G06F 8/41
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	: :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
An automated code review system using natural language processing includes an input collector (101), repository interface (102), context normalizer (103), natural language processing engine (104), semantic correlation engine (105), issue inference engine (106), recommendation generator (107), review datastore (108), and output interface (109). Code changes and related textual artifacts are normalized into review units, semantically correlated, and evaluated to generate categorized findings with evidence references, severity values, confidence indicators, and remediation guidance. The system improves contextual relevance, traceability, and reviewer efficiency across diverse software repositories.

No. of Pages : 22 No. of Claims : 6