

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511106485 A

(19) INDIA

(22) Date of filing of Application :04/11/2025

(43) Publication Date : 26/12/2025

(54) Title of the invention : A COMPUTER-BASED FRAMEWORK FOR DETECTING SOFTWARE CODE REDUNDANCY

(51) International classification	:H04B 7/0417, B60K 37/00, G06F 16/25, G03C 8/36, G03C 5/30	(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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(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	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention "A Computer-Based Framework for Detecting Software Code Redundancy" comprises a source code input module (101), code analysis engine (102), redundancy detection algorithm (103), code similarity repository (104), visualization dashboard (105), and developer feedback interface (106). The system automates redundancy detection using AI-based analysis, identifying both syntactic and semantic similarities. It improves software maintainability, reduces duplication, and provides visual insights for efficient refactoring, offering a scalable and intelligent approach to redundancy management.

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