

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511043196 A

(19) INDIA

(22) Date of filing of Application :05/05/2025

(43) Publication Date : 23/05/2025

(54) Title of the invention : A MODULAR TEST SUITE GENERATOR FOR CROSS-PLATFORM SOFTWARE DEPLOYMENT

(51) International classification :G06F11/36, G06F11/3604, G06F11/3668

(86) International Application No :NA
Filing Date :NA

(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

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(57) Abstract :
 A Modular Test Suite Generator (101) for cross-platform software deployment is disclosed. The invention dynamically generates test suites (102) by analyzing deployment parameters (104) using a configuration analyzer (108), selects modular test cases (105) via an adaptive selector (110), and optimizes execution through an intelligent optimizer (113). Results are synthesized by a report module (114) and metadata (107) is updated continuously for future deployments. The invention improves testing efficiency, adaptability, and consistency across diverse software environments.

No. of Pages : 13 No. of Claims : 5