

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511043319 A

(19) INDIA

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

(43) Publication Date : 23/05/2025

(54) Title of the invention : A CONFIGURABLE TEST SUITE BUILDER FOR CROSS-PLATFORM SOFTWARE DEPLOYMENT AND VALIDATION

(51) International classification	:G06F11/36, G06F 8/36
(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

(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. -----
Name of Applicant : NA
Address of Applicant : NA
 (72)**Name of Inventor :**
1)CHITVAN AGRAWAL
 Address of Applicant :Department of Computer Science & Engineering, Noida Institute of Engineering & Technology, Greater Noida. Greater Noida ----- ----

(57) Abstract :

A Modular Test Suite Generator (101) for cross-platform software deployment is disclosed. The present invention formulates dynamic test suites (102) by analyzing deployment parameters (104) through a configuration analyzer (108), selects modular test cases (105) using an adaptive selector (110), and optimizes test execution with an intelligent optimizer (113). Test results are compiled by a report module (114), while metadata (107) is continuously updated to refine future deployments. The invention enhances testing efficiency, adaptability, and consistency across heterogeneous software environments.

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