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(57) Abstract :
The present invention discloses a system (100) for the assessment of vulnerability impact through the utilization of call graphs. The system (100) encompasses a processor (102) and memory (104), wherein the memory (104) comprising a set of instructions, when executed, causes the processor (102) to acquire a set of source codes of the one or more computing devices (110) and proceeds to generate a call graph. Subsequently, the system (100) detects the presence of a vulnerable source code by comparing against known vulnerable source codes. By correlating the generated call graph and the detected vulnerable source code, the system (100) determines the security impact and a risk score is assigned to facilitate the prioritization of vulnerable source codes based on the severity of the security impact. The system (100), additionally, generates a report, encapsulating the detected vulnerable source codes, their determined security impact, and the prioritized order for remediation.

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