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(57) Abstract :

The present invention discloses a device for automated bug reporting integrated with stack trace logs. It includes a crash monitoring engine (101), stack trace logger (102), trace formatter (103), secure transmission unit (104), and bug database (105). The device captures runtime faults, collects contextual data including memory dump (108) and thread states (109), formats the data, and securely transmits it. It operates autonomously, supports offline caching, and integrates with developer tools to enhance bug resolution efficiency.

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