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(57) Abstract :

The invention discloses a device for cross-platform IDE synchronization in distributed teams comprising a synchronization chip (101), software agent (102), session tracker (103), plugin manager (104), layout synchronizer (105), debugger replicator (106), plugin interface (107), AI conflict resolver (108), onboard cache (109), and secure communication module (110). It enables real-time, encrypted, and modular synchronization of coding environments, including unsaved changes, plugins, and layout across different operating systems, enhancing collaborative programming efficiency and session continuity.

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