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(51) International classification	:G06F0011360000, G06F0008200000, H04L0009400000, H04L0067100000, G06F0008770000	(71) <b>Name of Applicant :</b> <b>1)NOIDA INSTITUTE OF ENGINEERING &amp; TECHNOLOGY</b> Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
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(57) Abstract :

The invention discloses a cloud-based framework (500) for remote software development environments that integrates multiple modules to ensure consistency, security, and productivity. It includes environment provisioning (510), centralized code storage (520), collaboration tools (530), CI/CD pipelines (540), AI-driven assistance (550), and security modules (560). The framework operates through a browser-based IDE (570) and cloud infrastructure (580), enabling distributed teams to collaborate securely and efficiently while reducing setup overhead and enhancing software quality.

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