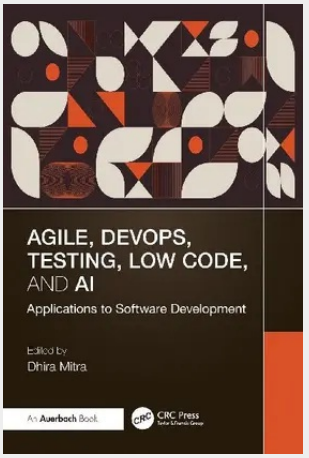
Mitra

Agile, DevOps, Testing, Low Code, and AI

Applications to Software Development



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Agile, DevOps, testing, and low code are pivotal elements in modern software development. Each contributes uniquely to the efficiency, quality, and adaptability of the development lifecycle. Agile methodologies emphasize iterative progress, collaboration, and responsiveness to change, enabling teams to deliver value incrementally while adapting to evolving requirements. DevOps complements Agile by fostering a culture of collaboration between development and operations teams, thereby streamlining workflows, automating processes, and ensuring faster and more reliable software delivery. Testing serves as the backbone of quality assurance, ensuring that software meets functional, performance, and security standards while identifying and mitigating risks early in the development cycle. Meanwhile, low-code platforms empower both professional developers and citizen developers to create applications with minimal coding effort, thereby accelerating delivery timelines and reducing dependency on extensive technical expertise. Agile, DevOps, Testing, Low Code, and AI: Applications to Software Development shows how these practices and technologies form a cohesive framework that drives innovation, enhances productivity, and ensures the delivery of robust, scalable, and user-centric software solutions.

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