

SDLC Phase	Key Activities	Tools	
Requirements	Stakeholder interviews, Requirement docs	Documentation Tools	Diagram Tools
		Confluence, Google Docs	Lucidchart, Draw.io
Design	Architecture design, UI wireframes	Design Tools	Modeling
		Figma, Adobe XD	UML
Development	Coding, Unit Testing	Programming Languages	IDEs
		Python, JavaScript, Java	VSCode, IntelliJ
Testing	Integration Testing, Regression Testing	Automation	Manual Testing
		Selenium, JUnit	TestRail, Zephyr
Deployment	CI/CD pipelines, Versioning	CI Tools	Containerization
		Jenkins, GitHub Actions	Docker, Kubernetes
Maintenance	Bug Fixing, Performance Tuning	Monitoring	Issue Tracking
		Prometheus, New Relic	Jira, Bugzilla

Table: Software Development Lifecycle (SDLC)