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	egrating Se DLC)	curity in the	ne Software	Developm	ent Life Cy	C EH
		Secu	urity Software D	evelopment Pro	ocess	
	Requirement	Design	Development	Testing	Deployment	Maintenance
	9 Security Requirements	Security Requirements Secure Coding Standards Threat Modeling Security Architecture	Secure Coding Standards Secure Design Patterns and Frameworks Secure Coding Practices	Secure Code Review Vulnerability Assessment Penetration Testing	6 Secure Deployment	Security Patch Updates
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Fu	nctional v	rs. Securi	ty Activiti	es in the	SDLC	CEH
_					• 3	
	Software De Life		Functional Activi	ties	Security Activiti	es
	Requirement	e N	inctional requirements on-functional requirement chnology requirements	ots Defining	g the security requireme	ents
	Design		e the guidelines and arch of project	itectural Set	sate a secure design secure coding standard form threat modeling oure the architecture	s
	Development	Functi Unit to	ional programming logic esting	e Imp	plementing security requiplementing secure coding properties of the cod	g standards
	Testing		ional testing such as blad box testing	to stee and	y testing	
	Deployment	Deplo	yment	Ensure	secure deployment	
	Maintenance	Updat	e functionality	Update	the system with securit	ty patches
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Advantages of Integrating Security in the SDLC Reduces the presence of software vulnerabilities to a great extent Can comply with the regulations, standards, or requirements for secure software development Reduce costly rework by detecting and eliminating flaws at the earliest phase Improves developer job satisfaction Improves customer satisfaction Embeds security culture to improve quality and reliability Reuses trusted software in future development Reduces maintenance costs

Security Requirements

CEH

- Non-functional requirements that need to be addressed to maintain the confidentiality, integrity, and availability of the application
- Stakeholders often overlook security requirement during the inception phase of software development
- This negligence may result in the application being vulnerable to different types of attacks or abuse
- Gathering security requirements should be part of the strategic application development process

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