***Assignment 1: SDLC Overview - Create a one-page infographic that outlines the SDLC phases (Requirements, Design, Implementation, Testing, Deployment), highlighting the importance of each phase and how they interconnect.***

***One-page infographic for the SDLC phases:***

*Software Development Life Cycle (SDLC) Phases*

***Requirements***

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*Gather and define project requirements*

*Identify stakeholders, goals, and deliverables*

*Create User Requirements Document (URD)*

*Importance: Ensures clear understanding of project objectives*

***Design***

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*Develop software architecture and design*

*Create prototypes and mockups*

*Define technical specifications*

*Importance: Translates requirements into feasible solutions*

***Implementation***

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*Write and review source code*

*Conduct unit testing and integration*

*Importance: Builds the software solution*

***Testing***

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*Conduct system testing and validation*

*Identify and fix defects*

*Importance: Ensures software quality and reliability*

***Deployment***

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*Release software to production*

*Configure and install software*

*Provide training and support*

*Importance: Delivers working software to end-users*

***Interconnections***

*Requirements inform Design*

*Design guides Implementation*

*Implementation undergoes Testing*

*Testing confirms readiness for Deployment*

***Key Benefits***

*Ensures software meets user needs*

*Reduces project risks and costs*

*Improves software quality and reliability*

*Enhances collaboration and communication*

***SDLC Methodologies***

*Waterfall*

*Agile*

*Scrum*

*Kanban*