Day 2 - 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.
* Phases of SDLC

1. **Requirements**

* Gathering and documenting what is needed from the software.
* **Importance**: Clear requirements help ensure the final product meets user needs and reduces the risk of costly changes later.
* **Interconnection**: Forms the foundation for the Design phase.

**2. Design**

* Creating a blueprint for the system, including architecture, user interfaces, and data models.
* **Importance**: A well-thought-out design ensures the system will be scalable, efficient, and maintainable.
* **Interconnection**: Translates requirements into a plan. Essential for guiding Implementation.

**3. Implementation**

* Actual coding and building of the software.
* **Importance**: The core of software creation where designs are translated into a functional system.
* **Interconnection**: Converts designs into a working product, setting the stage for Testing.

**4. Testing**

* Verifying and validating that the software works as intended and is free of defects.
* **Importance**: Ensures the quality and reliability of the software, preventing future issues.
* **Interconnection**: Critical for identifying issues before Deployment. It relies on clear requirements and design.

**5. Deployment**

* Releasing the final product to users.
* **Importance**: The culmination of all previous phases, making the software available for use.
* **Interconnection**: Success depends on thorough Testing. Feedback from Deployment may loop back into Requirements for future enhancements.
* **Visual Layout of SDLC**

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| **Requirements Checklist** |
| * Importance: Foundation for the project. |
| * Connection: Leads to Design |

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| **Design** Web design |
| * Importance: Plan for the system. |
| * Connection: Guides Implementation |

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| **Implementation** Laptop |
| * Importance: Building the software. |
| * Connection: Produces the product for Testing. |

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| **Testing** Magnifying glass |
| * Importance: Ensures quality. |
| * Connection: Prepares for Deployment. |

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| **Deployment** Rocket |
| * Importance: Product release. |
| * Connection: Feedback may loop back to Requirements |