SDCL -

Date – 17/05/2024

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.

SDLC Overview –

The software development lifecycle (SDLC) is the cost-effective and time-efficient process that development teams use to design and build high-quality software. The goal of SDLC is to minimize project risks through forward planning so that software meets customer expectations during production and beyond.
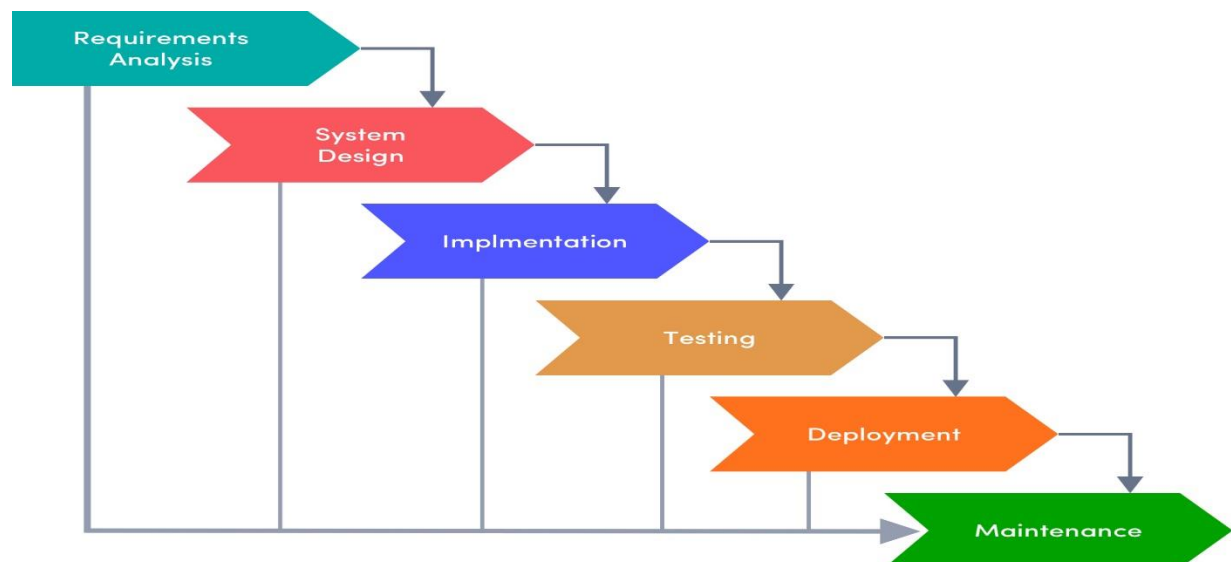

Fig. SDLC Phases

1. **Requirement –**
   Importance - SDLC is gathering maximum information from the client requirements for the product. The development team will then analyse the requirements keeping the design and code of the software.
   Interconnection - The main goal of this stage is that everyone understands the foundation for all subsequent phases, guiding design, implementation, testing, and deployment.

2. **Design –**
   Importance – Completed requirements into a detailed plan, specifying system architecture, interfaces, data structures, and algorithms.
   Interconnection - Once the design specification is prepared, all the stakeholders will review this plan and provide their feedback and suggestions.

3. **Implementation –**
   Important – Involves actual coding and development of the software based on the design specifications.
   Interconnection - Once the design specification is prepared, all the stakeholders will review this plan and provide.

4. **Testing –**
   Important - Testing verifies that the software meets quality standards, functions as expected, and is free of defects or errors
   Interconnection – The developers need certain predefined coding guidelines, and programming tools like interpreters, compilers, debugger to implement the code.The developers can show the work done to the business analysts in case if any modifications or enhancements required.

5. **Deployment –**
   Important - Deployment involves releasing the software for use by end-users, either through installation, distribution, or deployment to production environments.
   Interconnection – Deployment marks the culmination of the SDLC, where the software is delivered to users after undergoing rigorous testing, ensuring it meets their requirements and expectations.