# 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 Infographic**

# **Phases of SDLC**

#### 1. Requirements Gathering:

- Importance: Understand what the software should do.
- Interconnection: Foundation for design and development phases.

### 2. Design:

- Importance: Create the blueprint for software architecture.
- Interconnection: Guides implementation and testing processes.

#### 3. Implementation:

- Importance: Write and code the actual software.
- Interconnection: Transforms design into functional code.

## 4. Testing:

- Importance: Ensure software meets requirements and is bug-free.
- Interconnection: Verifies functionality before deployment.

## 5. Deployment:

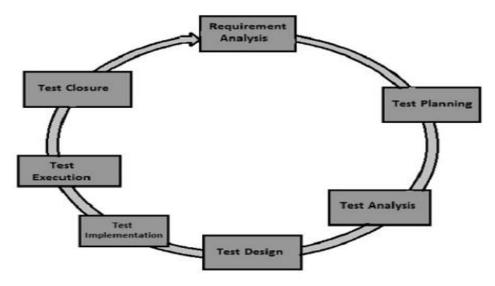
- Importance: Release software to users or production environment.
- Interconnection: Marks completion of development cycle.

#### **Key Points**

- SDLC is a systematic approach to software development.
- Each phase builds upon the previous one, creating a structured development process.
- Testing ensures software quality before deployment.
- Maintenance phase keeps software updated and responsive to user needs.

# **Benefits of SDLC**

- **1. Structured Approach**: Organized and efficient development.
- 2. Quality Assurance: Testing reduces errors and enhances reliability.
- **3. Adaptability**: Maintenance allows updates based on user feedback.
- **4. Clear Communication**: Involves stakeholders, ensuring alignment with requirements.



This Photo by Unknown Author is licensed under CC BY-SA

Assignment of Day - 2