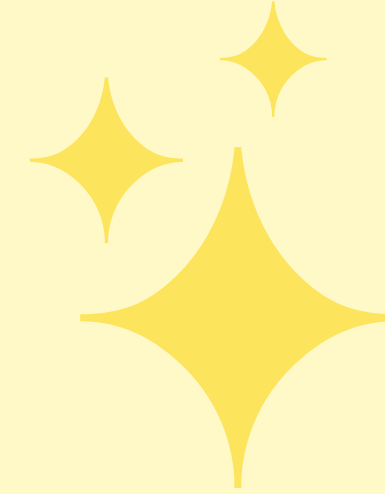
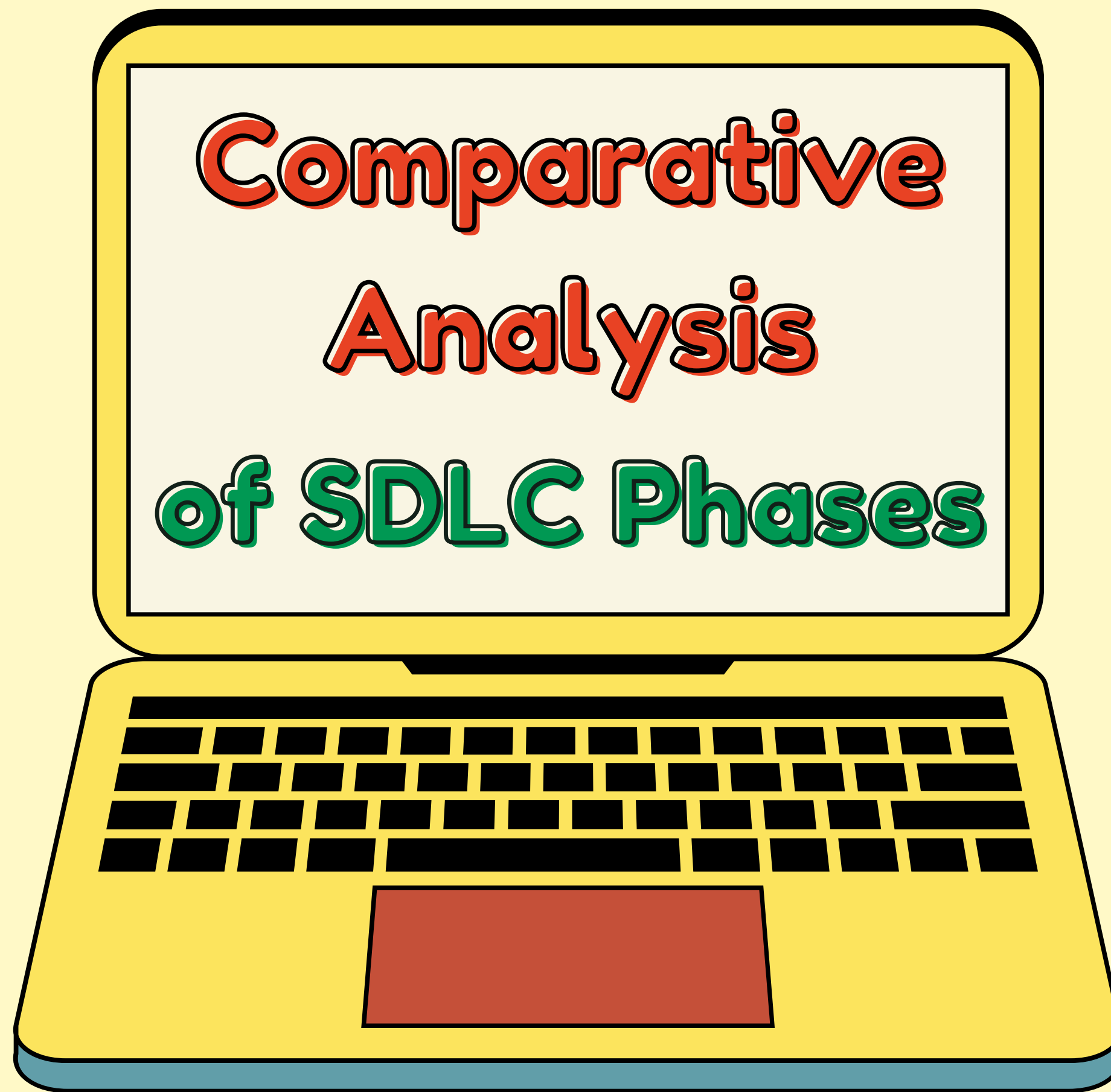
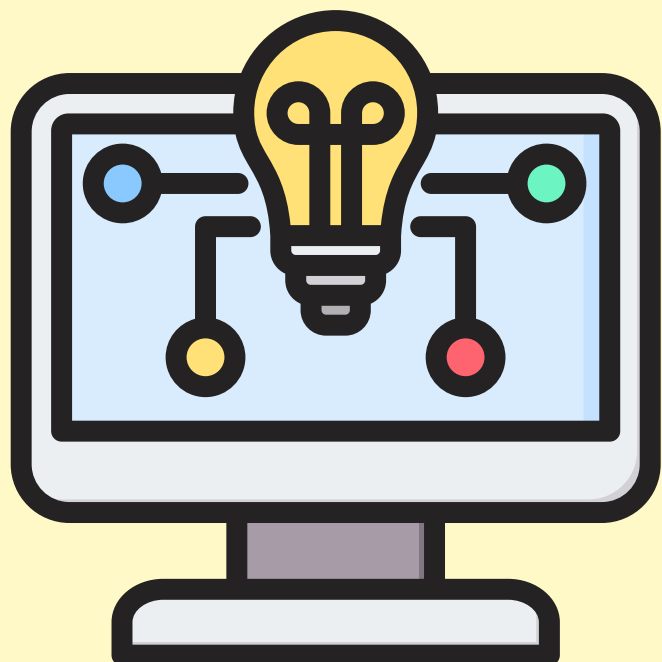




**AMBERSON**  
HIGH SCHOOL



# Comparative Analysis of SDLC Phases



**Collin Huang**  
**Ms.Namarta**  
**ICS3U**

**22 January, 2025**





# Introduction

- SDLC stands for Software Development Life Cycle.
- Purpose of SDLC:
  - To provide a clear framework for developers and stakeholders.
  - To reduce risks, improve quality, and meet user needs.
- It ensures that the software is:
  - Planned, designed, built, tested, and maintained systematically.





# Key Phases of SDLC



**AMBERSON**  
HIGH SCHOOL

## Requirement Analysis

- Gather and document user needs.
- Ensure all requirements are clear and feasible.

## System Design

- Create system architecture and module design.
- Focus on technical specifications.

## Implementation

- Write and integrate code.
- Convert design into a working system.



# Key Phases of SDLC



**AMBERSON**  
HIGH SCHOOL

## Testing

- Test the system for bugs and issues.
- Ensure it meets user requirements.

## Deployment

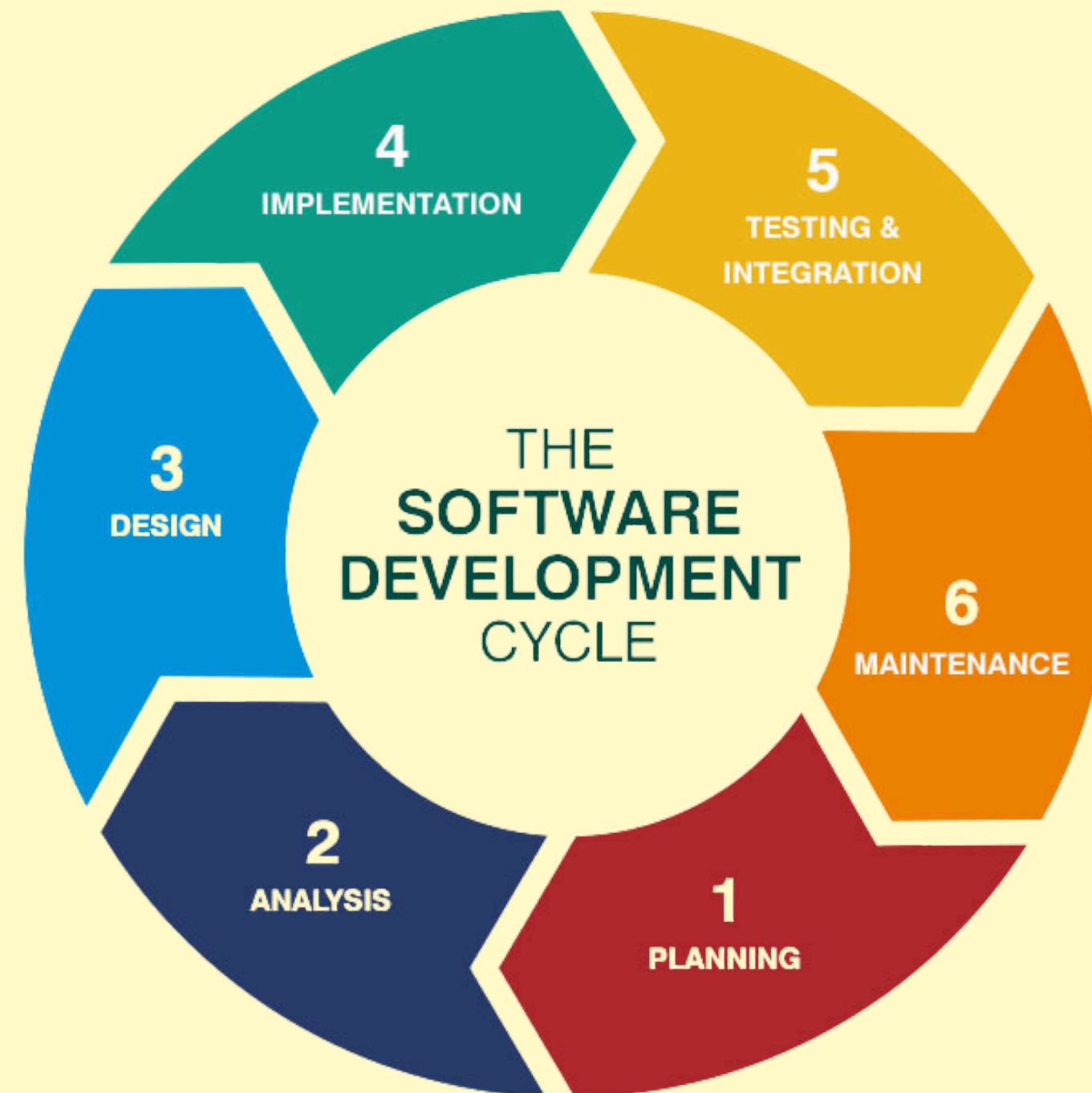
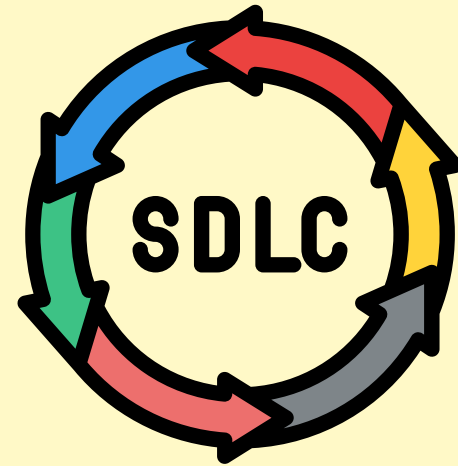
- Launch the system in a live environment.
- Train users if needed.

## Maintenance

- Update and improve the system over time.
- Provide technical support.



# SDLC Workflow



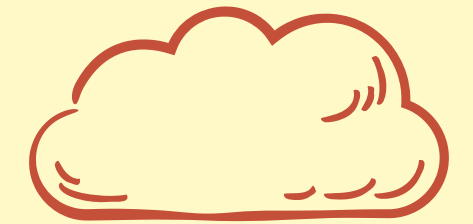




AMBERSON  
HIGH SCHOOL



# Video Explanation



Introduction To Software Development LifeCycle | What Is Software Development? | Simplilearn

Devise the system design following

Best software Application

1 Planning

2 Requirement Analysis

3 Designing

4 Implementation

What is SDLC?

SDLC

SDLC

Client

Check feasibility with requirements

Watch on YouTube





# Comparison of SDLC Phases



Phase	Purpose	Outcome
Requirement Analysis	Understand user needs	Requirement Document
System Design	Plan system structure	Design Document
Implementation	Write and integrate code	Working Software
Testing	Check for errors	Bug-Free Software
Deployment	Deliver the system	Operational Software
Maintenance	Fix and update system	Improved Software





# References



**AMBERSON**  
HIGH SCHOOL

"Software Development Life Cycle (SDLC)." YouTube, uploaded by Learn Coding, 28 August 2019,  
[https://www.youtube.com/watch?v=Fi3\\_BjVzpqk](https://www.youtube.com/watch?v=Fi3_BjVzpqk).

"Essentials of Software Development Life Cycle." Datarob, <https://datarob.com/essentials-software-development-life-cycle/>. Accessed 21 Jan. 2025.

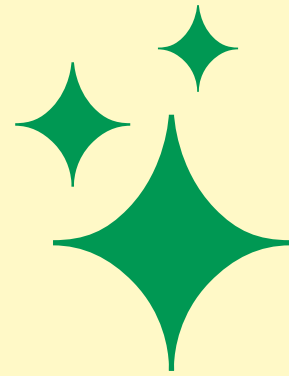
"A Comparative Analysis of SDLC Phases." Canva, <https://www.canva.com/design/DAGc1t01fq0/Z1lAaAnBuPMs-5lRNRSZGA/edit>. Accessed 21 Jan. 2025.







**AMBERSON**  
HIGH SCHOOL



**Thank**  
**You**

