



Welcome to this session: Software Development Lifecycle

The session will start shortly...

Questions? Drop them in the chat.
We'll have dedicated moderators
answering questions.





What is Safeguarding?

Safeguarding refers to actions and measures aimed at protecting the human rights of adults, particularly vulnerable individuals, from abuse, neglect, and harm.



To report a safeguarding concern reach out to us via email:
safeguarding@hyperiondev.com

Live Lecture Housekeeping:

- The use of disrespectful language is prohibited in the questions, this is a supportive, learning environment for all - please engage accordingly.
- No question is daft or silly - ask them!
- For all non-academic questions, please submit a query:
www.hyperiondev.com/support
- To report a safeguarding concern reach out to us via email:
safeguarding@hyperiondev.com
- If you are hearing impaired, please kindly use your computer's function through Google chrome to enable captions.



Stay Safe Series:

Mastering Online Safety One Week/step at a Time

While the digital world can be a wonderful place to make education and learning accessible to all, it is unfortunately also a space where harmful threats like online radicalisation, extremist propaganda, phishing scams, online blackmail and hackers can flourish.

As a component of this BootCamp the **Stay Safe Series** will/is designed to guide you through essential measures in order to protect yourself & your community from online dangers, whether they target your privacy, personal information or even attempt to manipulate your beliefs.

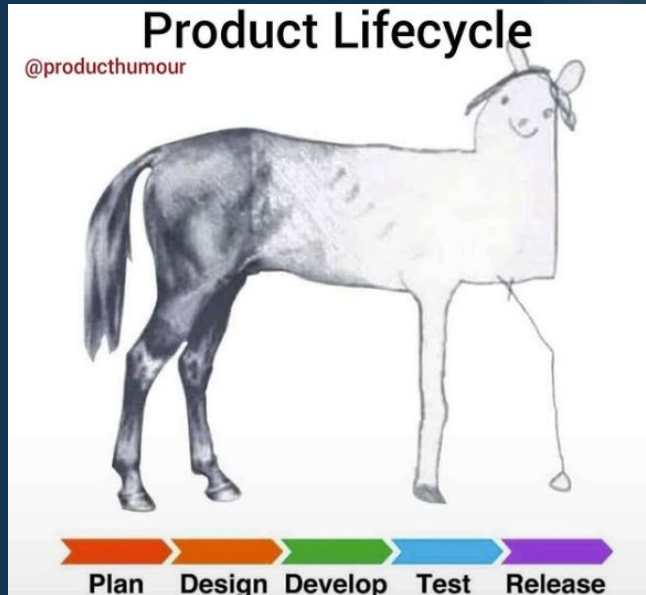
Safeguard Your Digital Life:

The Importance of Backups

- Protect Against Data Loss
- Cyber Threats
- Disaster Recovery
- Human Errors
- Compliance and Legal Requirements
- Hardware and Software Failure



Software Development Lifecycle



Learning Outcomes

- ❖ Define the Software Development Lifecycle (SDLC).
- ❖ Explain the purpose of each of the 7 steps in SDLC.



Software Engineering

Have you heard of the term "Software Development Lifecycle" before?



SDLC

Which of the following do you think is a part of SDLC? (Planning, Debugging, Testing, Designing)



SDLC

What is the difference between software engineering and programming?



SDLC

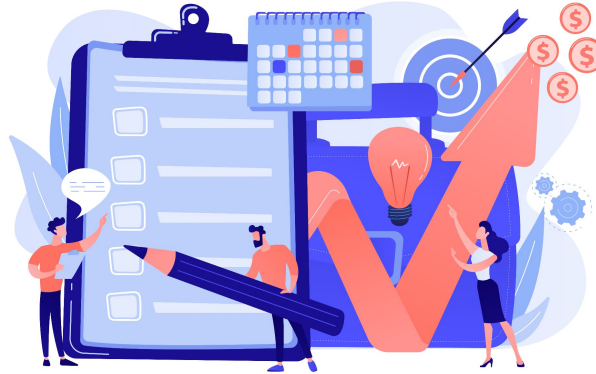
What is the software development life cycle?

- Structured process for designing, building, and maintaining software.
- Goal is to create high-quality software that meets customer needs while minimizing risk and costs.
- 7 Steps of SDLC
 - Planning
 - Requirements Analysis
 - System Design
 - Implementation (Coding)
 - Testing
 - Deployment
 - Maintenance

SDLC Steps

Planning

- Define objectives, scope, and resources.
- Example: Developing a project timeline for a mobile app.



SDLC Steps

Requirements Analysis

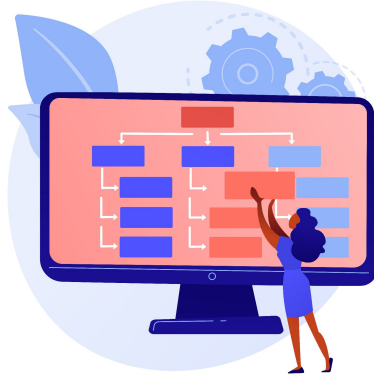
- Gather and analyze user needs.
- Example: Interviewing stakeholders to identify key app features.



SDLC Steps

System Design

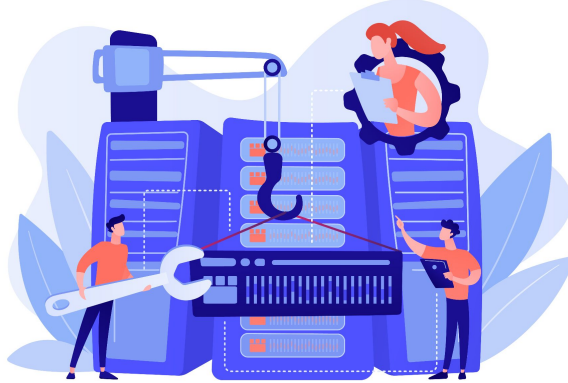
- Create architectural and detailed designs.
- Example: Designing the user interface and database schema.



SDLC Steps

Implementation

- Write the code according to the design.
- Example: Using Python to develop the backend of the app.



SDLC Steps

Testing

- Validate functionality, performance, and security.
- Example: Running unit tests and user acceptance tests.



SDLC Steps

Deployment

- Release the software to the production environment.
- Example: Deploying a web application to a cloud platform.



SDLC Steps

Maintenance

- Address bugs, updates, and user feedback post-deployment.
- Example: Fixing a reported login issue in the app.



Polls

Please have a look at the poll notification and select an option.

Which step in SDLC involves defining the objectives and scope of the project?

- A. Implementation
- B. Requirements Analysis
- C. Planning
- D. Maintenance

Polls

Please have a look at the poll notification and select an option.

What is the main goal of the testing phase in SDLC?

- A. Deploy the software to production
- B. Ensure the software functions as intended
- C. Create a system design blueprint
- D. Fix bugs post-release

Polls

Please have a look at the poll notification and select an option.

Which of the following is NOT a phase of SDLC?

- A. Deployment
- B. Debugging
- C. Testing
- D. Maintenance

Recap

- SDLC is a structured process for designing, building, and maintaining software.
- 7 Steps
 - Planning
 - Requirements Analysis
 - System Design
 - Implementation (Coding)
 - Testing
 - Deployment
 - Maintenance

Q & A SECTION

**Please use this time to ask
any questions relating to the
topic, should you have any.**

Thank you
for attending



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