



# Welcome to this session: Agile Development and Scrum

**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](mailto: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](http://www.hyperiondev.com/support)
- To report a safeguarding concern reach out to us via email:  
[safeguarding@hyperiondev.com](mailto: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

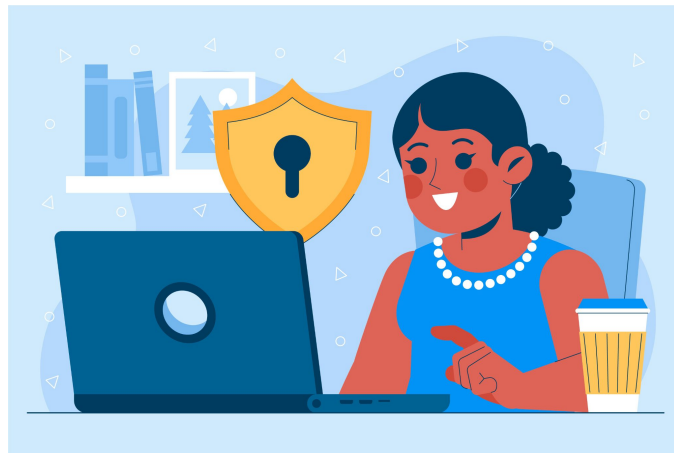
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While the digital world can be a wonderful place to make education and learning accessible to all, it is unfortunately also a space where harmful threats like online radicalisation, extremist propaganda, phishing scams, online blackmail and hackers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

## Privacy Matters: Guarding Your Personal Info Online

- Use Strong, Unique Passwords for Each Account
- Be Cautious with Social Media Sharing
- Keep Software Updated
- Beware of Phishing Scams
- Monitor Your Accounts Regularly



# Agile & Scrum

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## Learning Outcomes

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- ❖ Define the core principles of Agile development and its benefits in software projects.
- ❖ Define key Scrum concepts, including sprints, product backlog, sprint backlog, and increments.
- ❖ Identify and Explain key roles in Scrum.

# Software Engineering

Why is it often difficult to predict the future with complete accuracy, and how can we prepare for unexpected changes?



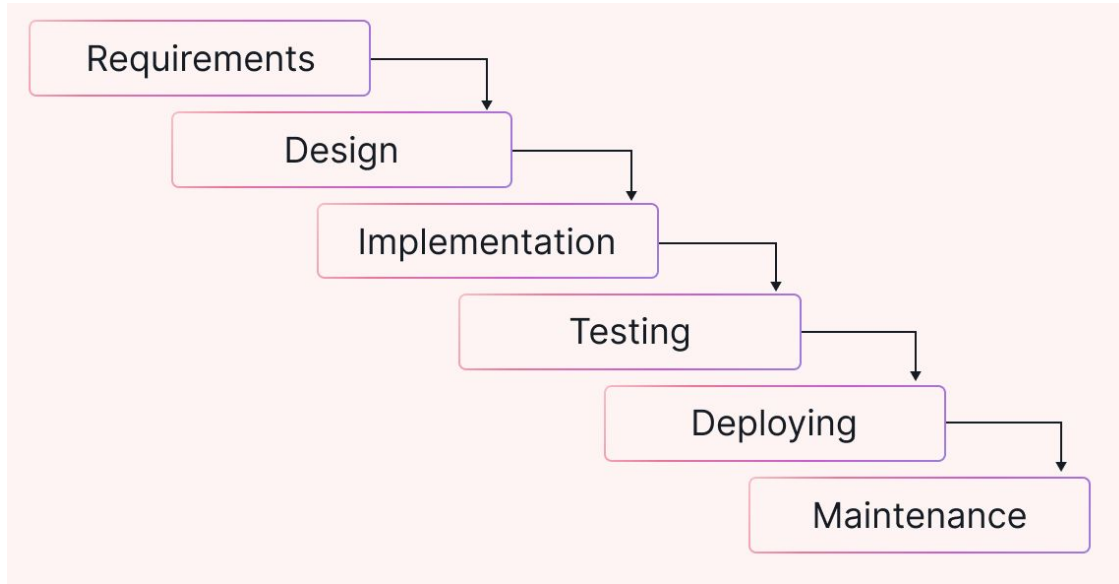


# Software Engineering

What are the advantages of breaking a large task into smaller, more manageable pieces?



# Waterfall



# Agile

- Agile development methodology is a project management approach that involves break a project down into phases.
- It emphasises continuous collaboration and improvement.



# Agile Manifesto

*Through this work we have come to value:*

**Individuals and interactions** over processes and tools

**Working software** over comprehensive documentation

**Customer collaboration** over contract negotiation

**Responding to change** over following a plan

*That is, while there is value in the items on the right, we value the items on the left more.*

# Agile Principles

## 12 agile principles in software development



Customer  
satisfactions



Changing  
requirements



Frequent  
delivery



Communicate  
regularly



Support  
team member



Face-to-face  
communication



Measure  
work progress



Development  
process



Good  
design



Measure  
progress



Continue  
seeking result



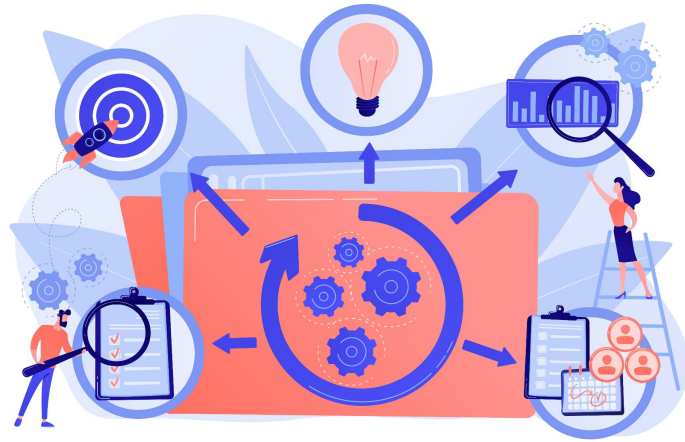
Reflect and  
adjust regularly



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# Agile Frameworks

- Kanban
- XP (Extreme Programming)
- Scrum



# Scrum

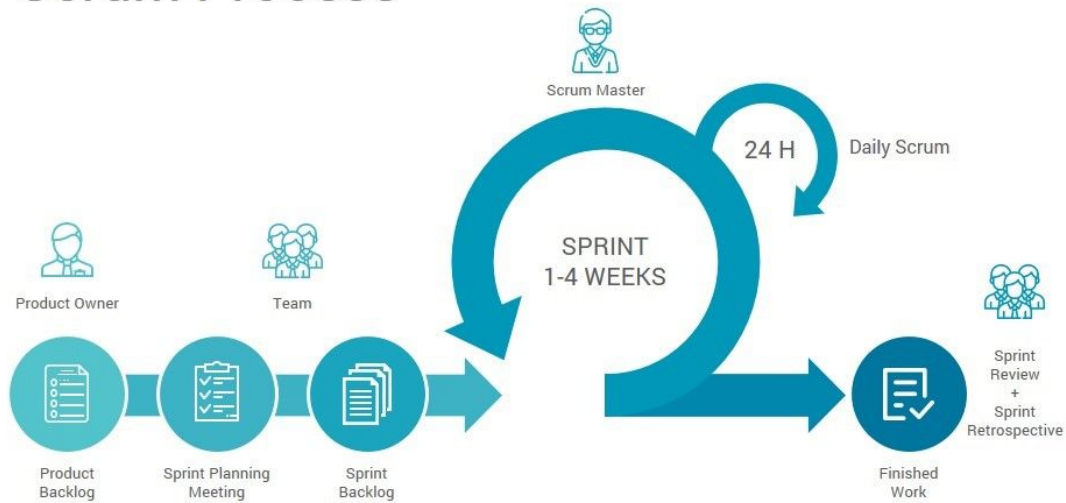
- An agile software development framework.
- Teams break their work into goals that need to be completed within a set time frame called a sprint.





# Scrum

## Scrum Process



# Scrum

During the daily stand-up, a team member mentions they're stuck on integrating a third-party payment gateway. You listen carefully, offer suggestions, and follow up after the meeting to remove roadblocks. You also make sure the team has everything they need to stay on track with the sprint goals.

# Scrum

You lead the effort to break down the product vision into smaller, actionable tasks. You organize a backlog grooming session to estimate the effort needed for each item and ensure they are ready for the next sprint. You also collaborate with stakeholders to clarify requirements.

# Scrum

The team struggles with estimating user stories. You introduce them to techniques like planning poker and help them practice in a collaborative environment. You also encourage open discussions to build confidence in their decision-making.

# Scrum

You create test cases for the new shopping cart feature and execute them to ensure it functions as expected. You identify a few bugs and collaborate with the developers to resolve them. Once fixed, you verify the changes and give your approval.

# Scrum Stand-up Activity

- What have you accomplished yesterday?
- What will you do today?
- What is blocking you?

# Agile Disadvantages

- Lack of Predictability
- Scope Creep
- High Team Commitment
- Large, Complex project with Fixed Requirements
- Neglected Documentation
- Constant Client Involvement







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

What is the main goal of *Agile* development?

- A. To eliminate the need for documentation
- B. To deliver value to the customer quickly and iteratively
- C. To ensure all planning is completed before starting work
- D. To avoid collaboration



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

What is the role of the Scrum Master?

- A. Prioritise the product backlog
- B. Manage the team and assign tasks
- C. Facilitate the Scrum process and remove obstacles
- D. Approve the final product

# 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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