

Manual Testing

## What is software?

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- **A Software** is a collection of computer programs that helps us to perform a task.
- **Types of Software:**
  - **System software**  
Ex: Device drivers, Operating Systems, Servers, Utilities, etc.
  - **Programming software**  
Ex: compilers, debuggers, interpreters, etc.
  - **Application software**  
Ex: Web Applications, Mobile Apps, Desktop Applications etc.

## What is Software Testing?

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- **Software Testing** is a part of software development process.
- **Software Testing** is an activity to detect and identify the defects in the software.
- The **objective of testing** is to release **quality product** to the client.

## Software Quality

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- **Quality:** Quality is defined as justification of all the requirements of a customer in a product.
  - **Note:** Quality is not defined in the product. It is defined in the customer's mind.
- **Quality software is reasonably**
  - Bug-free.
  - Delivered on time.
  - Within budget.
  - Meets requirements and/or expectations.
  - Maintainable.



## Product Vs Project

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- If software application is developed for specific customer based on the requirement then it is called **Project**.
- If software application is developed for multiple customers based on market requirements then it called **Product**.

## Why do we need testing?

- Ensure that software is **bug free**.
- Ensure that **system meets** customer requirements and software specifications.
- Ensure that system meets **end user expectations**.
- Fixing the bugs identified after release is more expensive.

## Error, Bug & Failure

- **Error:** Any incorrect human action that produces a problem in the system is called an error.
- **Defect/Bug:** Deviation from the expected behavior to the actual behavior of the system is called defect.
- **Failure:** The deviation identified by end-user while using the system is called a failure.



## Why the software has bugs normally?

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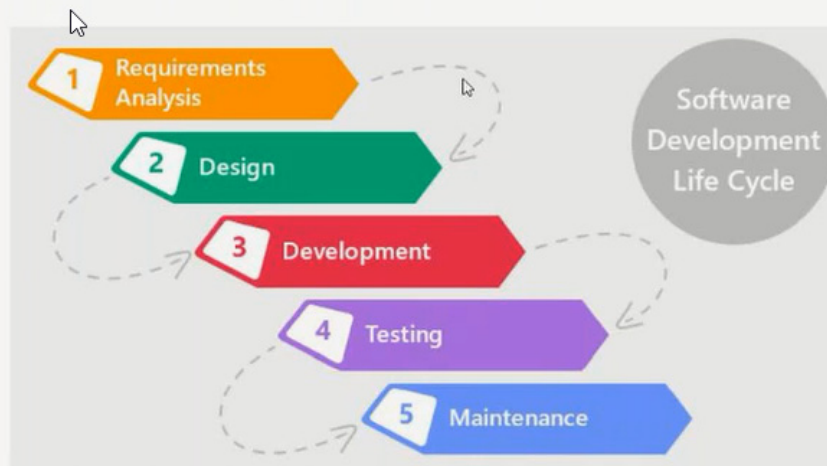
- Miscommunication or no communication
- Software complexity
- Programming errors
- Changing requirements
- Lack of skilled testers

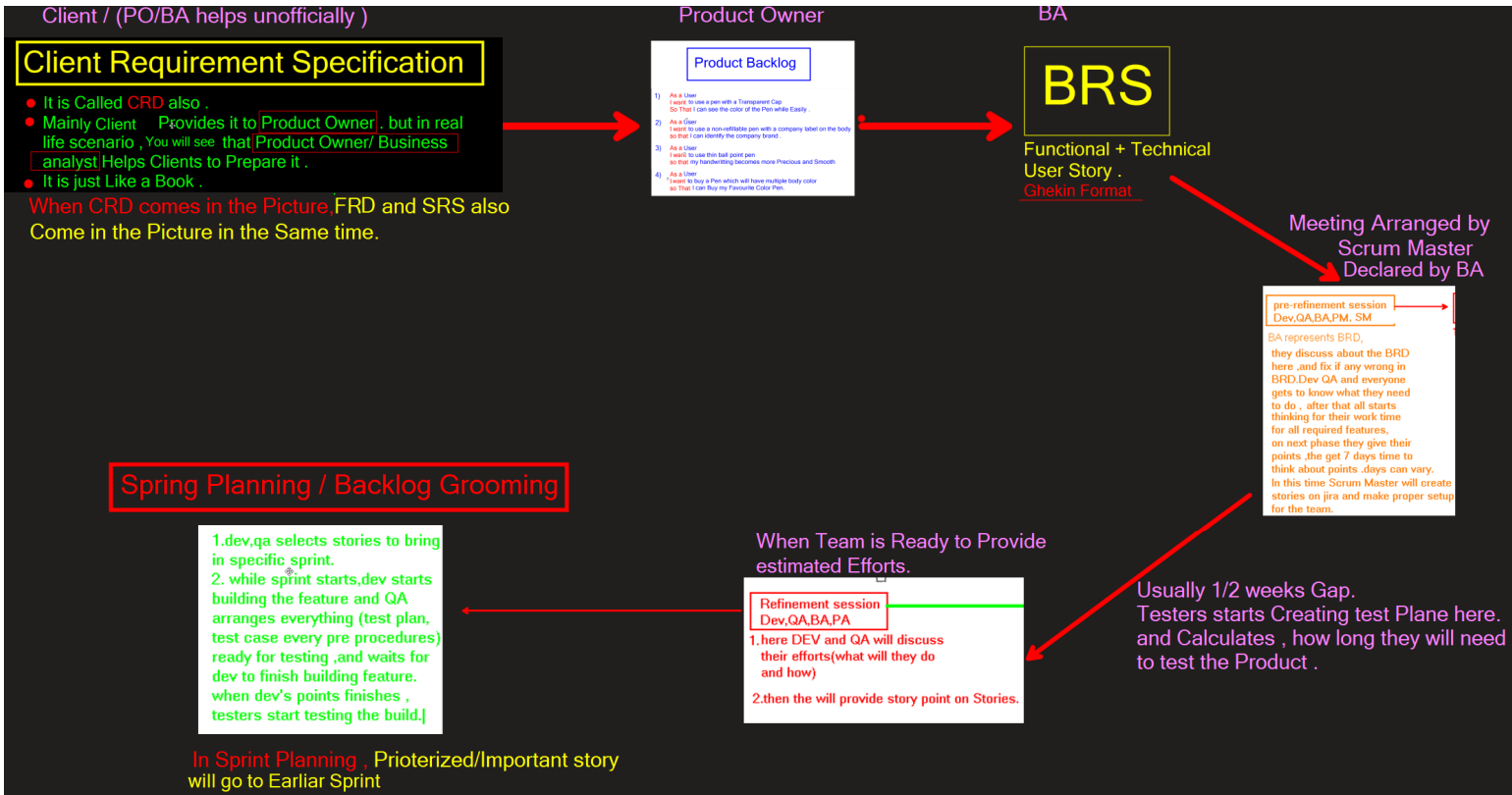
Etc..

## Software Development Life Cycle (SDLC)

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- SDLC, Software Development Life Cycle is a process used by software industry to design, develop and test software's.







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## Class 2 Qus

1. What is Software Testing and What are the mains types of QA testing ?
2. What is Software?
3. How many Types of softwares are there,Describe them ? and In what types of softwares you worked on?
4. What do you understand by unit testing?
5. Please Discuss the Process how a software develops until release
6. What do you understand by software quality ? tell some important points of quality product  
What is Project and what is product ? can you please explain ?
7. Why do we need testing ?
8. What is end user expectations? How will you understand end user expectation while testing? Cause the product hasn't released yet and haven't gone to end user .
9. Please expain what do you understand by error ,bug and failure.
10. Why softwares has bug ,there are some specific reasons.please explain !
11. Can you please discuss all the points of SDLC .and what do u know about sdlc ?
12. Can you Please Describe the Environments of SDLC ? What are the Environments are There and Basics of Them Please ?