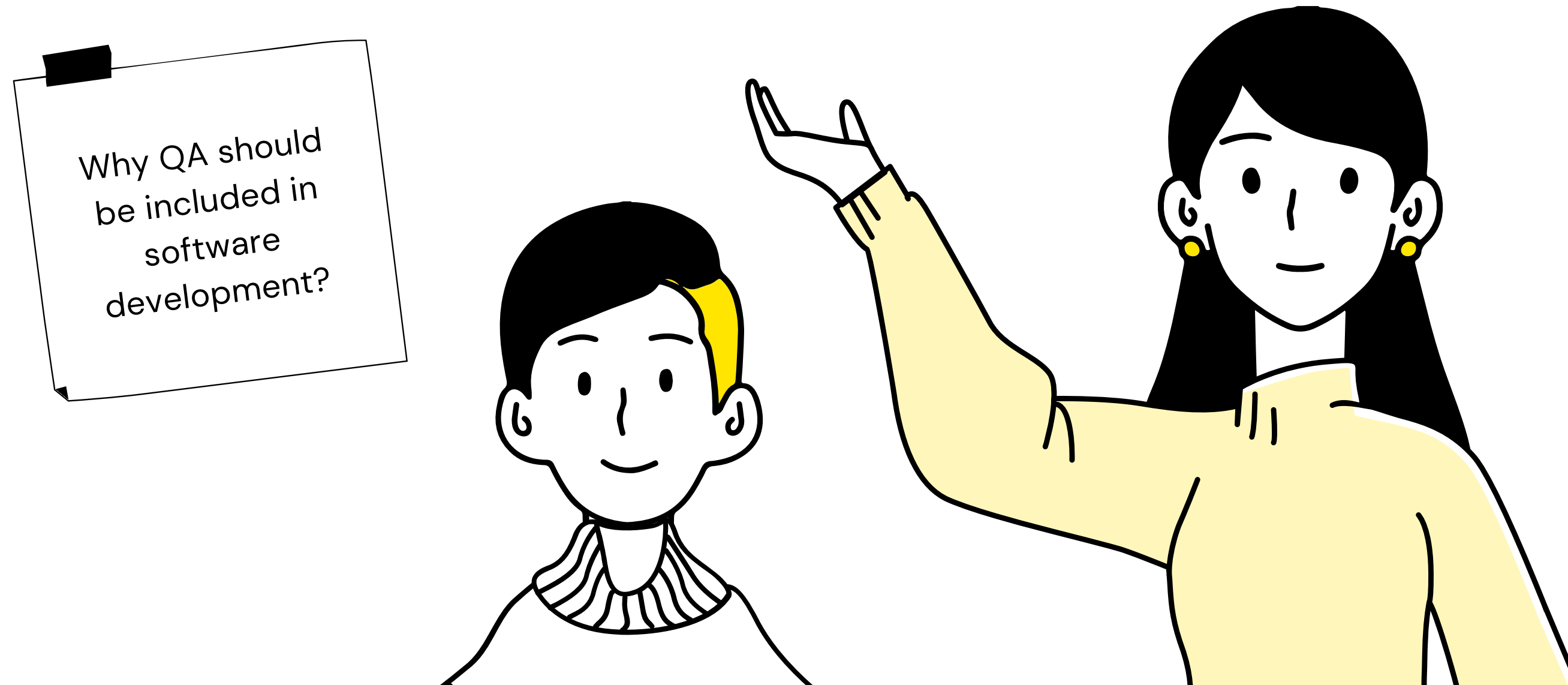


# Quality Assurance (QA)



# Contain

1

What is Quality Assurance

2

QA Roles

3

QA Responsibilities

4

Importance of test case & test plan

5

Test case sample

6

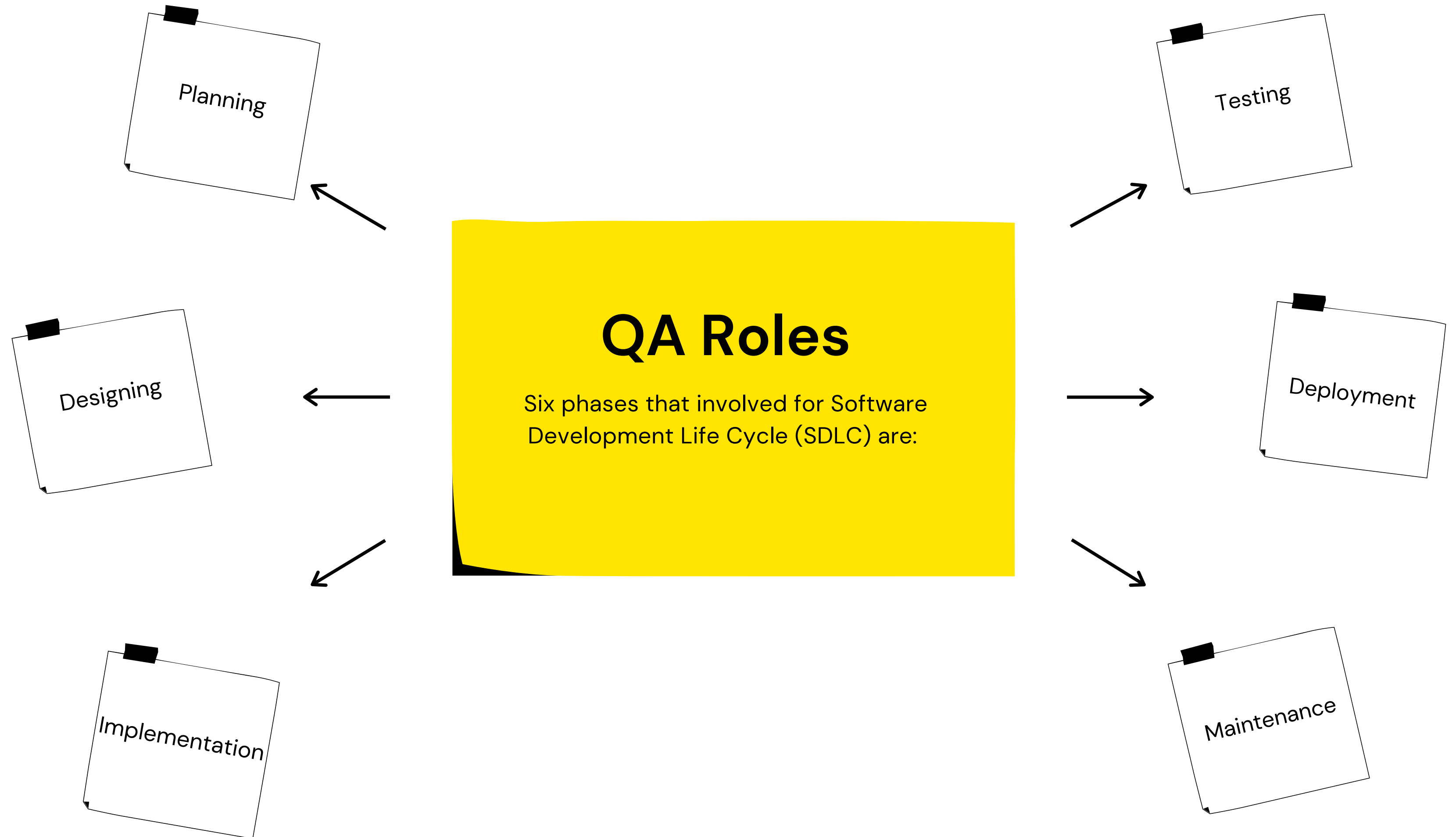
Suggestion to improve flows of work



# What is Quality Assurance (QA)?

Mainly focus on **enhancing processes of UI/UX designs** to ensure the end-users receive a quality products. In having a better client engagement, QA roles are importance as **user research, designing interface and development of codes** to imitates end-user behaviour.

Simply put, implementing QA in software development lifecycle is essential for projects especially in **reducing costs and bugs**.



1



## Planning

Gathers requirements for upcoming features. Expertise in user experience, QA may trace potential issues which might affect team decision, save cost in designing and development efforts.

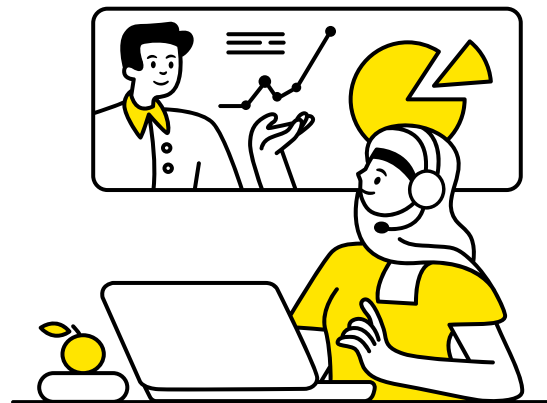
2



## Designing

Able to identify any aspects designing which may cause any usability issues in the future. Early stage of detecting designing issues may produce a quality product.

3



## Implementation

Continuous testing are important during implementation phase since it helps in checking components to optimize system performance.

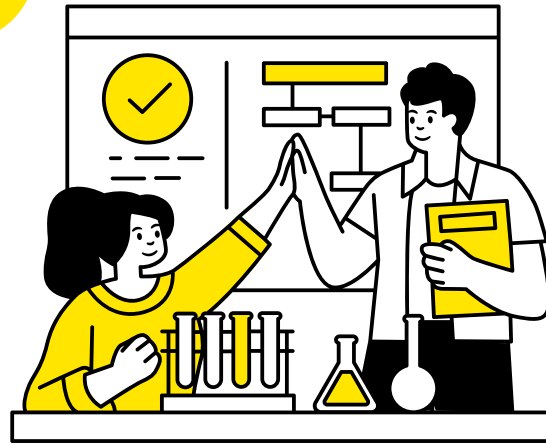
4



## Testing

QA need to be prepared in Testing phase. Not only for testing, but other factors like writing test case, record any bugs from smallest to critical bugs, and re-testing after bug fixes, ensure client devices are supported for the system too.

5



## Deployment

Deployment phase required less crucial role for QA since this involve with code production. QA only required to do smoke testing to ensure the deployed production is stable or vice versa.

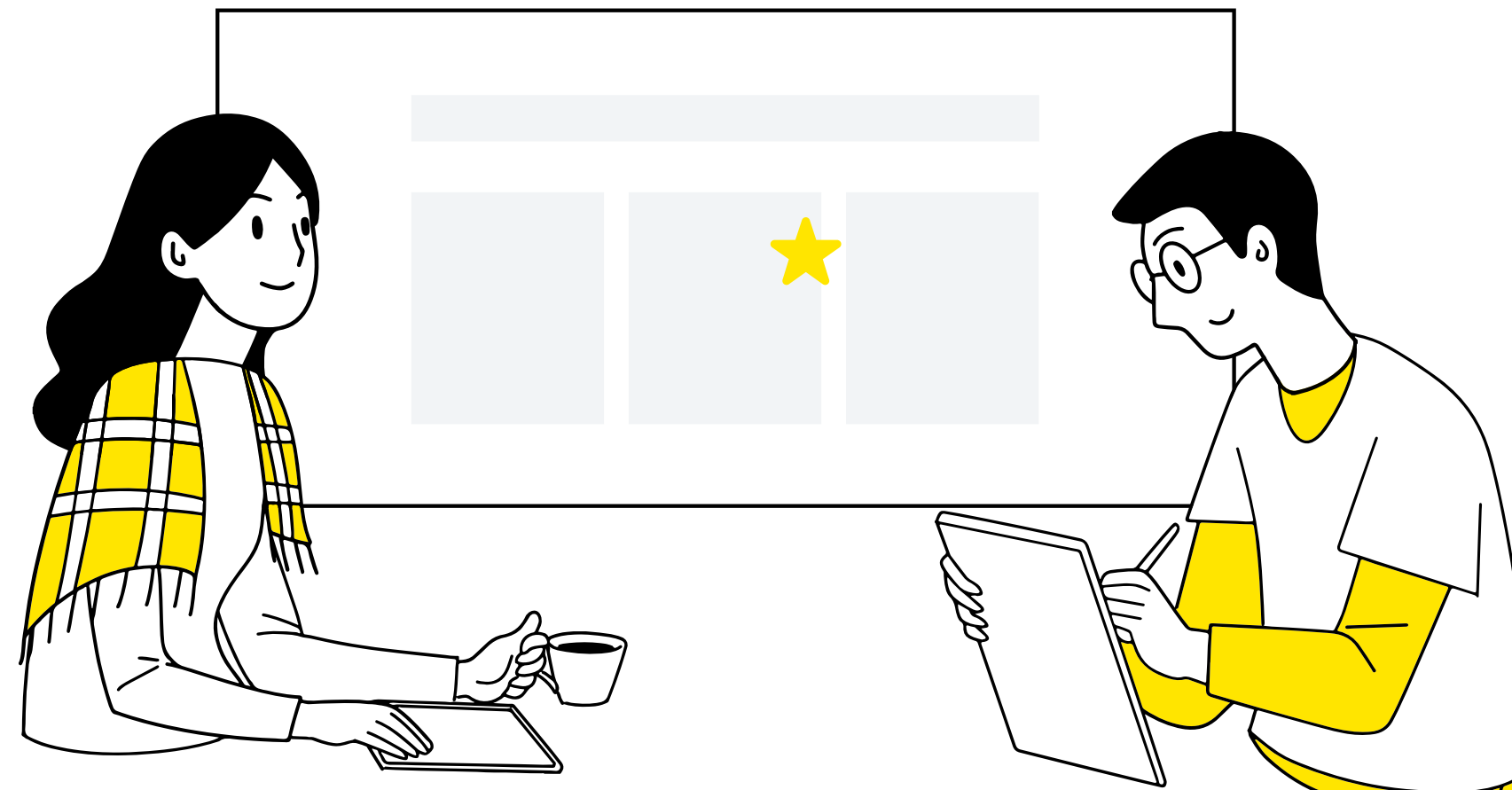
6



## Maintenance

Although in most phase, QA already tested the system, there might be bugs miss out due to production phase etc. QA are responsible in testing or may upgrades to

features, depending on the situation and levels in fixing the bugs.





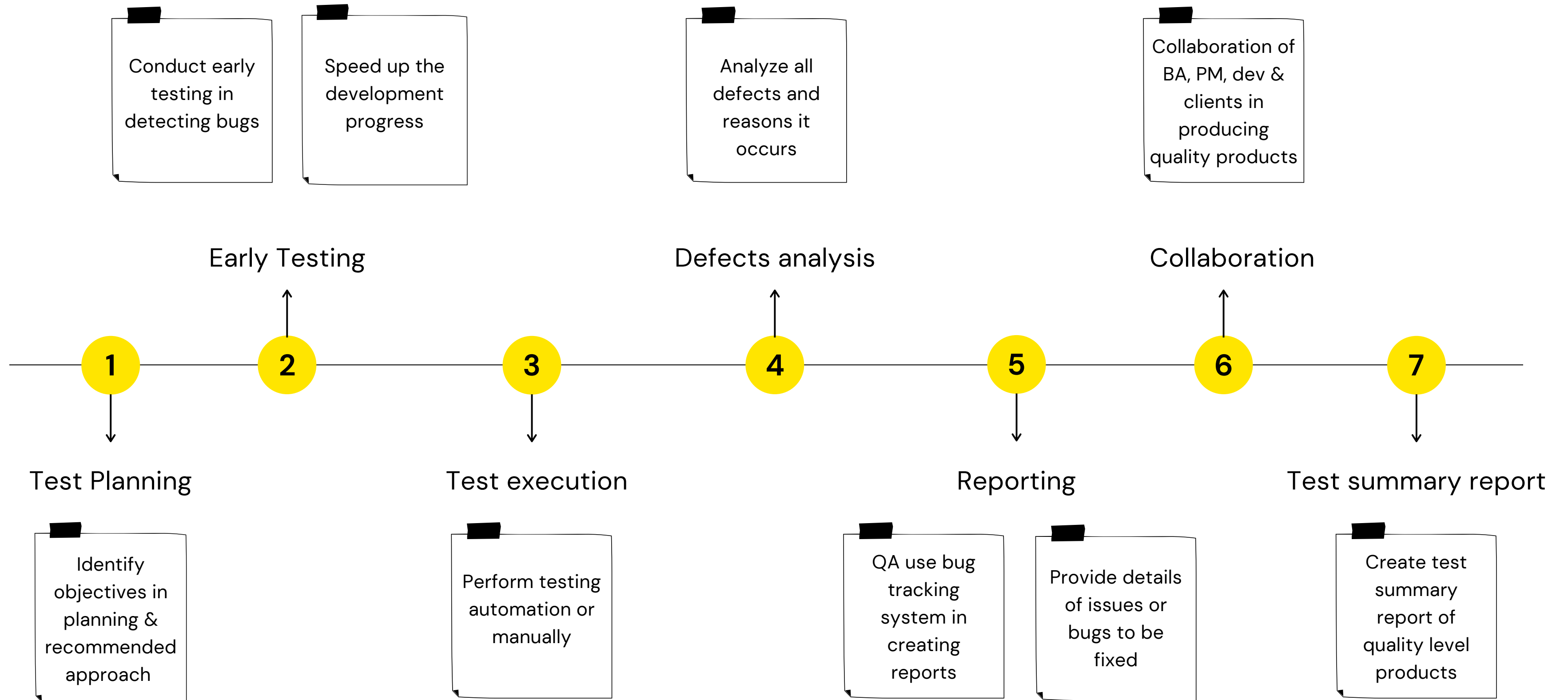
QA should master Agile model for developing software since it is known for the framework that focusing on each aspects of different phases.

Is it important in  
SDLC?

## **QA responsibilities**

Do QA need to fix the  
bugs as dev too?





\***BA** – Business Analyst    \***PM** – Project Manager    \***dev** – Developer

# Test case and test plan

1

QA is not being a clients demanding to provide feautes & functions for the product.

2

In other words, QA act like a client to review, testing the product, adding on reporting any issues.

3

But then, how to know if the QA able to reach client's needs? in terms of UI, functionality since QA is in between developer and client ?

**QA need to be fitted Agile model**

High understandable in Agile flow of model is crucial to ensure QA on the right track

**Provide guidelines on product flows supposed to work**

Prepared test case will have clear picture and expected product results.

**Everyone able to be on the same page**

Misconceptions can be prevented by reviewing the test cases and features on how it supposed to works.

**No gaps in testing coverage**

If there are additional features that is yet to be known by QA, any missing test coverage are detectable by team.

# Test case examples

Case scenario  
Signing up  
CORE project

ID	Description	Setup	Test Data	Expected results	Status
Signup 01	Checking client signup with valid data format	1.Open site http://core.aemenersol.com/ 2.Enter username 3.Enter Email 4.Enter first & last name 5. Choose department 6.Enter password 7.Enter confirm password	<ul style="list-style-type: none"><li>• Username = Zainoor</li><li>• Email = akaneeen98@gmail.com</li><li>• First name = Zainoor</li><li>• Last name = Ashkin</li><li>• Department = Information Technology</li><li>• Password = Core@123</li><li>• Confirm password = Core@123</li></ul>	Client should able to signup to the web after getting approval from admin.	Pass
Signup 02	Checking client signup with invalid data format	1.Open site http://core.aemenersol.com/ 2.Enter username 3.Enter Email 4.Enter first & last name 5. Choose department 6.Enter password 7.Enter confirm password	<ul style="list-style-type: none"><li>• Username = Zainoor</li><li>• Email = akaneeen98.com</li><li>• First name = Zainoor</li><li>• Last name = Ashkin</li><li>• Department = Information Technology</li><li>• Password = Core@</li><li>• Confirm password = Core@123</li></ul>	Client should receive sign up notification error about invalid format email and incorrect matching password	Pass

Create a better  
report?

Pressuring the dev to  
fix issues here and  
there?

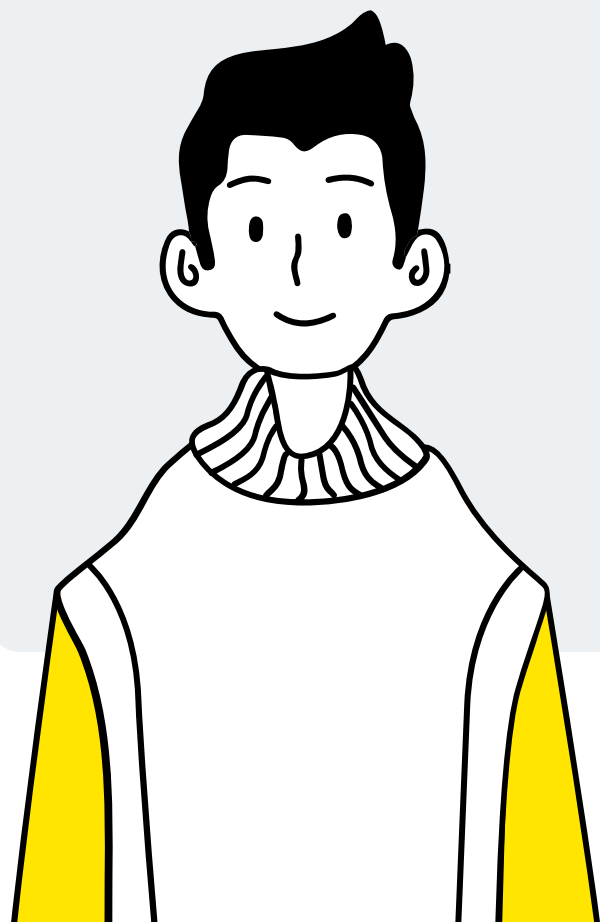
**What can I suggest to  
improve productivity  
between QA and dev ?**

Having meeting  
everyday?

Provide a better  
solution in conveying  
issues with  
communication?

# Report template

Provide a template in creating issues and pull request (PR) to make it easier for both developers and QA in tracking any issues instead of referring to PR created. These will enhance software testing to be more systematic.



1

Create issues

2

Create PR

3

Auto generated report/template

Desription

Release  
version

Pull  
Request  
(PR)

# Thank you!

