



Group 4

# Software testing

6038034 CHEN-YANG HSU

5828012 ANIKET POUDEL SHARMA

6217410 Jirapat suwanjune




# Error --> Faults --> Failures



## ERROR

**A DIFFERENCE FROM  
THE EXPECTED RESULT.  
THIS IS THE PROBLEM  
ONE OBSERVES.**




## FAULTS

**DEFECT PRODUCED BY  
THE ERROR. FAULT  
COULD OCCUR IN THE  
SOFTWARE OR SYSTEM  
OR A DOCUMENT.**



## FAILURES

**WHEN THE EXECUTION  
OF THE DEFECTIVE  
CODE OCCURS, THE  
SYSTEM FAIL TO  
PERFORM CERTAIN  
FUCTIONS.**





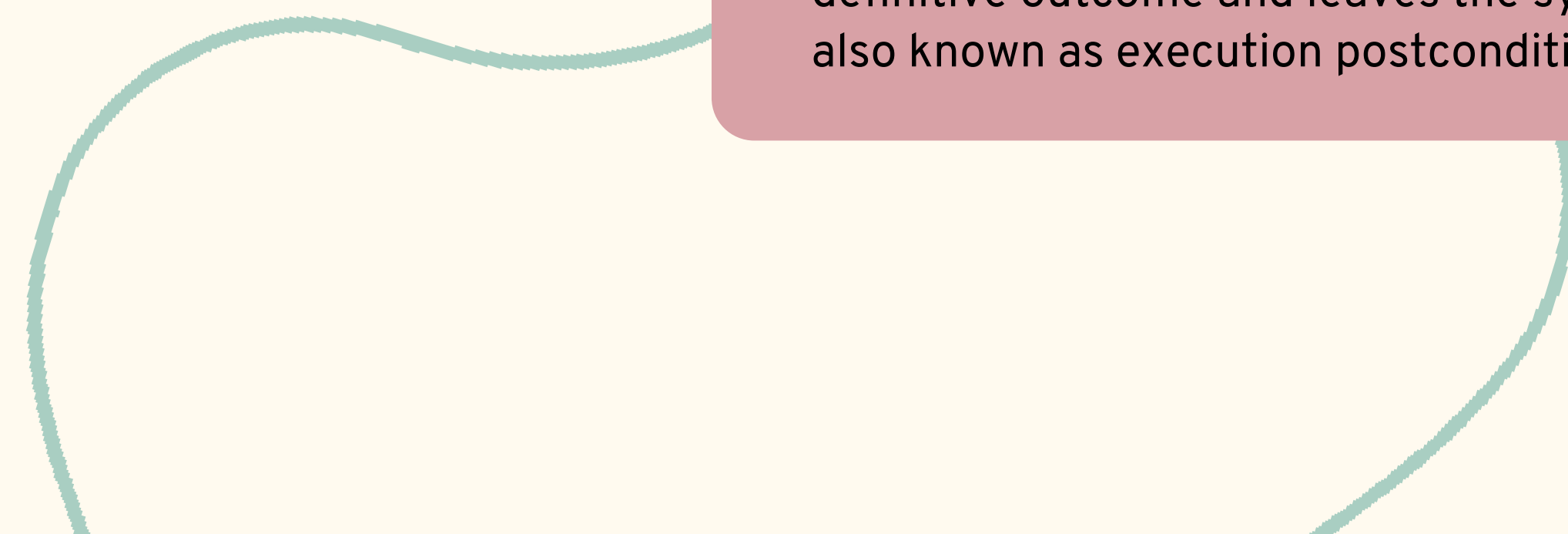
# Definition: Test Case

## What is a Test Case

A test case is a document, which has a set of test data, preconditions, expected results and postconditions, developed for a particular test scenario in order to verify compliance against a specific requirement.

## How does Test Case work.

Test Case acts as the starting point for the test execution, and after applying a set of input values, the application has a definitive outcome and leaves the system at some end point or also known as execution postcondition.



Step #	Action	Expected Output	Actual Output	Result Status
1	Navigate to <a href="https://www.youtube.com/watch?v=6_Bv4vE_yfE">https://www.youtube.com/watch?v=6_Bv4vE_yfE</a>	Site should open	As Expected	Pass
2	Click Save	List of Playlist to save to should pop up	As Expected	Pass
3	Click Playlist	"Saved to playlist" popup should appear	As Expected	Pass

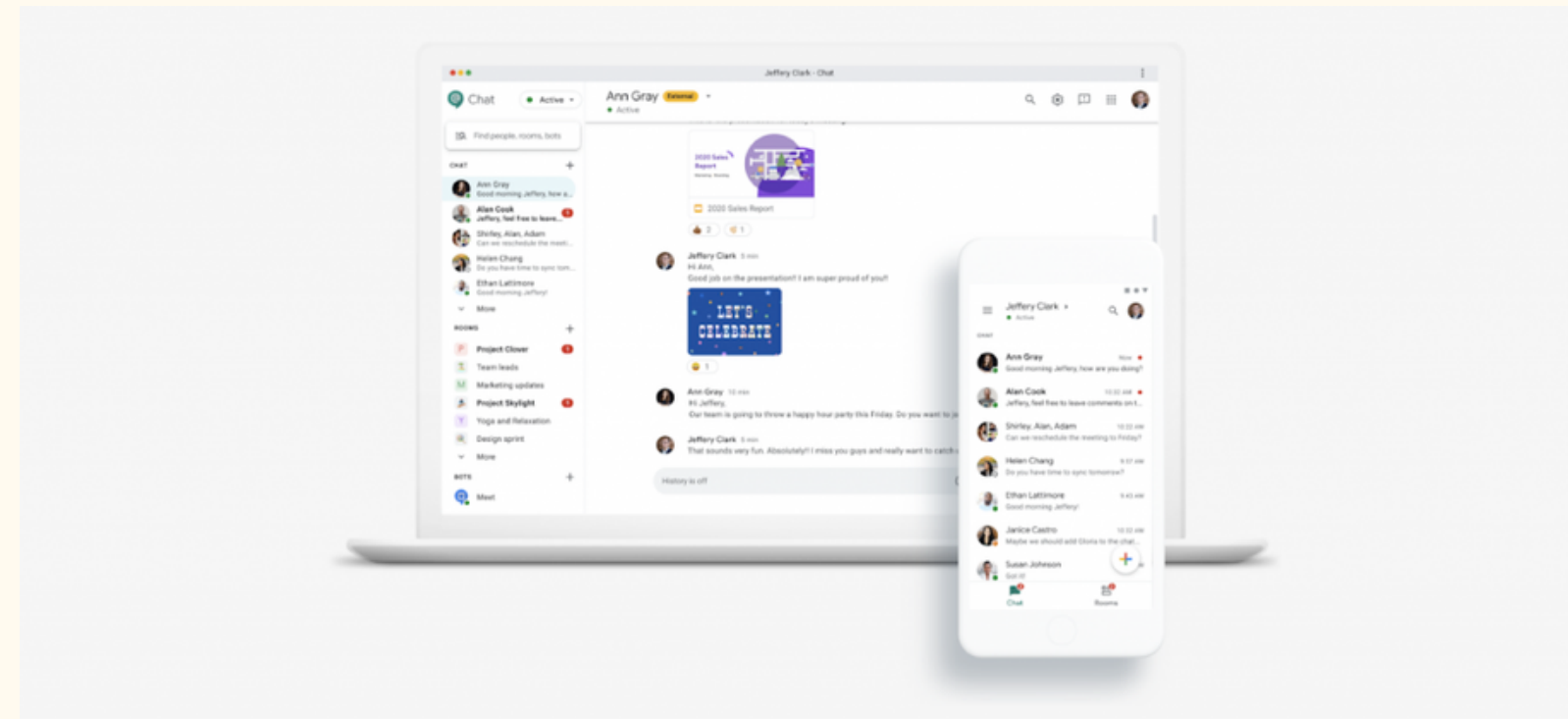
# Test Case Example: Save to Playlist

Assuming that you are already logged in, we wish to test Youtube's functionality of saving a video to a playlist.

Step #	Action			
1	Open Instagram>Profile>EditProfile>ChangeProfilePhoto			
2	Remove Current Photo' or 'Import from Facebook' or 'Take Photo' or 'Choose From Library'			
3	After selecting the source and choosing the picture. Click 'Done'			
#	Test Cases	Expected Output	Actual Output	Status
	Check the Image upload path	An actual Image = jpeg file	A jpeg file	Pass
	Check image upload with image size greater than the maximum allowed size.	Image Uploaded	Image uploaded	Pass
	Check for image quality after upload; the quality of the image should not be changed after uploading	Same quality Image	Low quality Image	Fail

# Test Case Example 2: Changing Profile Photo on Instagram

Assuming that you have already logged in, here, we have the test cases that are checked while a User is Changing their Profile photo.



# Test Case Chat App:

The most famous applications are Line, Facebook, WeChat. There are a lot of chat applications available with new and exciting features. Due to the quality which they maintain and quality comes with the testing process, so here I have outlined those points that would help you understand the process in precise.

# Chat Application Test Case

1. Verify there are minimum two Users should be available for the chat.
2. Verify there are minimum two devices (Desktop, Laptop, Phone) should be available.
3. Verify that Chat application has been installed in two devices at least.
4. Verify that any Medium like Internet, Wifi, Bluetooth, Public Switched , Lan Network etc. should be available for the Chat functionality.
5. Verify that Users are able to send requests to other Users for chat or not.
6. Verify that how many number of words or characters can be send in a time.

# References

- 01** <https://www.toolsqa.com/software-testing/istqb/error-defect-failure/>
- 02** <https://stackoverflow.com/questions/6323049/understanding-what-fault-error-and-failure-mean/47963772>
- 03** <https://www.edureka.co/blog/test-case-in-software-testing/>
- 04** <https://www.javatpoint.com/bug-vs-defect-vs-error-vs-fault-vs-failure>
- 05** <https://www.softwaretestinggo.com/profile-photo-upload-test-cases/>
- 06** Test Cases for Chat Application – Sahu Testing Expert (wordpress.com)





# Thank you!

Do you have any questions for us?