Module-3

What is load testing?

Load testing is a type of [performance testing](https://stackify.com/best-performance-testing-tools/) that simulates a real-world load on any software, application, or website. Without it, your application could fail miserably in real-world conditions. That’s why we build tools like [Retrace](https://stackify.com/retrace/) to help you [monitor application performance](https://stackify.com/fundamentals-web-application-performance-testing/) and fix bugs before your code ever gets to production. Load testing examines how the system behaves during normal and high loads and determines if a system, piece of software, or computing device can handle high loads given a high demand of end-users. This tool is typically applied when a software development project nears completion.

In this article, you will learn:

how to load test,

load testing vs stress testing,

load testing software and tools,

benefits and examples,

and best practices

How it Works

How to load test? A [load test](https://stackify.com/web-performance-how-to-load-test/) can be don

with end-to-end IT systems or smaller components like database servers or firewalls. It measures the speed or capacity of the system or component through transaction response time. When the system components dramatically extend response times or become unstable, the system is likely to have reached its maximum operating capacity. When this happens, the bottlenecks should be identified and solutions provided.

 Performance Testing: Load Testing vs. Stress Testing

There is not much [difference between load testing and stress testing](https://stackify.com/load-testing-vs-performance-testing-vs-stress-testing/), which is the reason why they are often confused with each other. Load testing and stress testing are both subsets of performance testing. Performance testing aims to examine system behavior and performance. Specifically, it monitors the response time, scalability, speed, and resource utilization of the software and infrastructure.

So how are the two different from each other? Load testing checks how the systems behave under normal or peak load conditions. Stress testing, on the other hand, is applied to check how the system behaves beyond normal or peak load conditions and how it responds when returning to normal loads.

Load Testing Tools

It’s important to choose a tool that best fits your business needs. Tackily Retrace [helped Americaneagle.com](https://stackify.com/americaneagle-com-and-roc-commerce-stay-ahead-with-retrace/) stay ahead of its competitors through Application Performance Management.

There are a lot of load testing tools you’ll find in the market, but not all of them are the perfect fit to help your business succeed. Examples of these load tester software and tools are [Web LOAD](https://www.radview.com/webload-download/), Load View, and [Load runner](https://saas.hpe.com/en-us/software/loadrunner).

Web LOAD works on any internet application using Ajax, NET, Oracle Forms, HTML5, and other technologies. Load View measures performance in real browsers (not headless phantom browsers). Lastly, Load Runner can manage thousands of users at the same time. For a comprehensive list of many of the tools available today, check out our list of the tooles

What is stress Testing

Stress testing is the process of determining the ability of a computer, [network](https://www.techtarget.com/searchnetworking/definition/network), [program](https://www.techtarget.com/searchsoftwarequality/definition/program) or device to maintain a certain level of effectiveness under unfavorable conditions. The process can involve quantitative tests done in a lab, such as measuring the frequency of errors or system crashes. The term also refers to qualitative evaluation of factors such as [availability](https://www.techtarget.com/searchnetworking/definition/availability) or resistance to denial-of-service (DoS) attacks. Stress testing is often done in conjunction with the more general process of [performance testing](https://www.techtarget.com/searchsoftwarequality/definition/performance-testing).

When conducting a stress test, an adverse environment is deliberately created and maintained. Actions involved may include:

Running several resource-intensive applications in a single computer at the same time

Attempting to hack into a computer and use it as a zombie to spread [spam](https://www.techtarget.com/searchsecurity/definition/spam)

Flooding a [server](https://www.techtarget.com/whatis/definition/server) with useless E-mail messages

Making numerous, concurrent attempts to access a single [Web site](https://www.techtarget.com/whatis/definition/Web-site)

Attempting to infect a system with [viruses](https://www.techtarget.com/searchsecurity/definition/virus), Trojans, [spyware](https://www.techtarget.com/searchsecurity/definition/spyware) or other [malware](https://www.techtarget.com/searchsecurity/definition/malware).

The adverse condition is progressively and methodically worsened, until the performance level falls below a certain minimum or the system fails altogether. In order to obtain the most meaningful results, individual stressors are varied one by one, leaving the others constant. This makes it possible to pinpoint specific weaknesses and vulnerabilities. For example, a computer may have adequate [memory](https://www.techtarget.com/searchstorage/definition/memory-card) but inadequate [security](https://www.techtarget.com/searchsecurity/definition/security). Such a system, while able to run numerous applications simultaneously without trouble, may crash easily when attacked by a hacker intent on shutting it down.

Stress testing can be time-consuming and tedious. Nevertheless, some test personnel enjoy watching a system break down under increasingly intense attacks or stress factors. Stress testing can provide a means to measure [graceful degradation](https://www.techtarget.com/searchnetworking/definition/graceful-degradation), the ability of a system to maintain limited functionality even when a large part of it has been compromised.

Once the testing process has caused a failure, the final component of stress testing is determining how well or how fast a system can recover after an adverse event.

Write a scenario of only Whatsapp chat message

Verify that for a new mobile number user will get a verification code on his mobile and filling in the same verifies the new user account.

Check the maximum number of incorrect attempts allowed while filling out the verification code.

Verify that registering an existing mobile number for new user account registration is not allowed.

Verify that on successful registration all the contacts in the user’s contact directory get imported to the Whatsapp contact list.

Verify that the user can set DP and status on Whatsapp.

Verify that the user can update the existing DP and Whatsapp status.

Verify that the user can send messages to any individual selected from his contact list.

Verify that ‘Chats’ window contains all the chat list with DP and name and last message preview of the other person with whom chat was initiated.

Verify that clicking a chat in the chat list opens a new window containing all the chats received and sent with the other person.

Verify that the user can check the message delivered and read the time for a message in the ‘Message Info’ section.

Verify that the user can share or receive contact with the other person.

Verify that the user can create a group by adding multiple people from his contact list.

Verify that the user can send and receive the message in group chats.

Verify that users can send and receive images, audio, video, and emoticons in the chat with individuals.

Verify that users can send and receive images, audio, video, and emoticons in group chats.

Verify that the user can send and receive chats in the secondary languages available.

Verify that users can delete text, images, audio, and video messages within a chat.

Verify that users can clear their complete chat history in an individual or group chat.

Verify that users can archive chats in an individual or group chat.

Verify that users can block a user to prevent any message from getting received from the blocked contact.

Verify that the user makes WhatsApp calls to the person in his contact list.

Verify that the user can receive WhatsApp calls from the person in his contact list.

Verify that users can mark chats as favorites and access all chats marked as favorites from the ‘Favorites’ section.

.verify that on downloading the whatsapp application ,uswer

Chat Settings Test Scenario

Verify that the user can set a chat wallpaper.

Verify that the user sets privacy settings like turning on/off last seen, online status, read receipts, etc.

Verify that the user can update notification settings like – notification sound, on/off, and show preview for both group and individual chats.

Verify that the user can take the complete chat backup of his chats.

Verify that the user can update the phone number that is used by the WhatsApp application.

Verify that the user can disable/delete his Whatsapp account.

Verify that the user can check data usage by images, audio, video, and documents in WhatsApp chats.

Write a Scenario of Pen

Verify the type of pen, whether it is a ballpoint pen, ink pen, or gel pen.

Verify that the user is able to write clearly over different types of papers.

Check the weight of the pen. It should be as per the specifications. In case not mentioned in the specifications, the weight should not be too heavy to impact its smooth operation.

Verify if the pen is with a cap or without a cap.

Verify the color of the ink of the pen.

Check the odor of the pen’s ink on writing over a surface.

Verify the surfaces over which pen is able to write smoothly apart from paper e.g. cardboard, rubber surface, etc.

Verify that the text written by the pen should have consistent ink flow without leaving any blob.

Check that the pen’s ink should not leak in case it is tilted upside down.

Verify if the pen’s ink should not leak at higher altitudes.

Verify if the text written by the pen is erasable or not.

Check the functioning of the pen on applying normal pressure during writing.

Verify the strength of the pen’s outer body. It should not be easily breakable.

Verify that text written by pen should not get faded before a certain time as mentioned in the specification.

Check if the text written by the pen is waterproof or not.

Verify that the user is able to write normally on tilting the pen at a certain angle instead of keeping it straight while writing.

Check the grip of the pen, whether it provides adequate friction for the user to comfortably grip the pen.

Verify if the pen can support multiple refills or not.

In the case of an ink pen, verify that the user is able to refill the pen with all the supported ink types.

For ink pens, verify that the mechanism to refill the pen is easy to operate.

In the case of a ballpoint pen, verify the size of the tip.

In the case of a ball and gel pen, verify that the user can change the refill of the pen easily.

Write a Scenario of Pen Stand

The Steam Bent Chair Arch is a unique handmade pen stand from Zeller Writing Company. I bought it mainly for its unique looks. From a pen stand point of view it’s got its drawbacks, but if viewed as a display stand its a winner.  
The stand arrives well packed and includes a certificate of authenticity and a personal note from Aaron Zeller. While neither the certificate or the note make for a better pen stand, they do indicate a high level of care that goes into making the stands. The packaging and presentation is top notch.  
The stand is a simple design. There’s a dimple in the base to hold the pen in place. The steam bent arch has a notch at the top to help hold the pen in place against the smooth surface. Since each stand is hand made the exact size will vary, but the base of my pen stand is 2 1/4 inches wide and 4 inches deep. The base is about 3/4 inches high and the arch rises about 3 1/2 inches above the base.  
The pen stand isn’t as delicate as it looks. While I wouldn’t throw it around it isn’t going to break during normal use. Or even if it’s dropped on a carpeted floor, as I learned.  
The pen can be knocked out of the stand relatively easily, although how easily depends on the pen. It’s been more stable than I expected with my Lamy 2000 and Franklin-Christoph Model 66. I could kick my desk and most times the pen would hang in there. But pens do fall off and this has to be taken into consideration when placing the stand. I keep it away from the edge of my desk. I also keep it clear of my Mac Mini which has sharp edges which could potentially scratch a pen that falls against it.  
The [product page](http://www.zellerwritingcompany.com/Zeller_Writing_Co_Single_Pen_Stand_Steam_Bent_p/zwc-sbps1001.htm) at Zeller Writing Co also has a video about the Steam bent Chair Arch 1-Pen Stand.  
The ZRC 1-Pen Steam Bent Chair Arch stand is a cool looking handmade stand that looks good on my desk. No pictures of it on my desk, while it looks good the res of the mess doesn’t. But more pictures beloew

Write a Scenario of Door

Verify if the door is single door or bi-folded door

Check if the door opens inwards or outwards

Verify that the dimension of the doors are as per the specifications

Verify that the material used in the door body and its parts is as per the specifications

Verify that color of the door is as specified

Verify if the door is sliding door or rotating door

Check the position, quality and strength of hinges

Check the type of locks in the door

Check the number of locks in the door interior side or exterior side

Verify if the door is having peek-hole or not

Verify if the door is having stopper or not

Verify if the door closes automatically or not – spring mechanism

Verify if the door makes noise when opened or closed

Check the door condition when used extensively with water

Check the door condition in different climatic conditions- temperature, humidity etc

Check the amount of force- pull or push required to open or close the door

Write a Scenario of ATM

verify the ‘ATM Card Insertion Slot’ is as per the specification  
2. Verify the ATM machine accepts card and PIN details  
3. Verify the error message by inserting a card incorrectly  
4. Verify the error message by inserting an invalid card (Expired Card)  
5. Verify the error message by entering an incorrect PIN  
6. Verify that the user is asked to enter the PIN after inserting a valid ATM Card  
7. Verify that PIN is encrypted  
8. Verify that there is an action like blocking of card occurs when the total no. of incorrect PIN attempts get surpassed  
9. Verify the user is allowed to do only one cash withdrawal transaction per PIN request  
10. Verify the machine logs out of the user session immediately after successful withdrawal  
11. Verify the message when there is no money in the ATM  
12. Verify the language selection functionality  
13. Verify the cash withdrawal functionality by entering some valid amount  
14. Verify the cash withdrawal functionality by entering an amount less than 100  
15. Verify the cash withdrawal functionality by entering an amount greater than the total available balance in the account.  
16. Verify the cash withdrawal functionality by entering an amount greater than per day limit  
17. Verify the user is allowed to enter the amount again in case the amount entered is not valid. A proper message should be displayed.  
18. Verify the ATM machine successfully takes out the money.  
19. Verify the ATM machine takes out the balance printout after the withdrawal  
20. Verify the font of the text displayed in ATM screen  
21. Verify the text on the screen buttons visible clearly.  
22. Verify the functionality of all the buttons on the keypad  
23. Verify the text on the buttons visible clearly.  
24. Verify that touch of the ATM screen is smooth and operational  
25. Verify the user is allowed to choose different account types like Savings, Current etc.,  
26. Verify the different combinations of operation and check if there will be an electricity loss in the middle of the operation. If there is an electricity loss in the middle of the transaction then the transaction should be marked as null and the amount shouldn’t be disclosed to others.  
27. Verify the functionality of the cash dispenser  
28. Verify the functionality of the receipt printer  
29. Verify whether the printed data is correct or not in the receipt  
30. Verify how much time the system takes to log out.

When to used Usablity Testing

Usability testing is the practice of testing how easy a design is to use with a group of representative users. It usually involves observing users as they attempt to complete tasks and can be done for different types of designs. It is often conducted repeatedly, from early development until a product’s release.

“It’s about catching customers in the act, and providing highly relevant and highly contextual information.”

*—*Paul Maritz, CEO at Pivotal

Usability Testing Leads to the Right Products

Through usability testing, you can find design flaws you might otherwise overlook. When you watch how test users behave while they try to execute tasks, you’ll get vital insights into how well your design/product works. Then, you can leverage these insights to make improvements. Whenever you run a usability test, your chief objectives are to:

1) Determine whether testers can complete tasks successfully and independently.

2) Assess their performance and mental state as they try to complete tasks, to see how well your design works.

3) See how much users enjoy using it.

4) Identify problems and their severity.

5) Find solutions.

While usability tests can help you create the right products, they shouldn’t be the only tool in your [UX research](https://www.interaction-design.org/literature/topics/ux-research) toolbox. If you just focus on the evaluation activity, you won’t improve the [usability](https://www.interaction-design.org/literature/topics/usability) overall.

Usability Testing is an Iterative Process

To make usability testing work best, you should:

1) Plan –

a. Define what you want to test. Ask yourself questions about your design/product. What aspect/s of it do you want to test? You can make a hypothesis from each answer. With a clear hypothesis, you’ll have the exact aspect you want to test.

b. Decide how to conduct your test – e.g., remotely. Define the scope of what to test (e.g., navigation) and stick to it throughout the test. When you test aspects individually, you’ll eventually build a broader view of how well your design works overall.

2) Set user tasks –

a. Prioritize the most important tasks to meet objectives (e.g., complete checkout), no more than 5 per participant. Allow a 60-minute timeframe.

b. Clearly define tasks with realistic goals.

c. Create scenarios where users can try to use the design naturally. That means you let them get to grips with it on their own rather than direct them with instructions.

3) Recruit testers – Know who your users are as a target group. Use screening questionnaires (e.g., Google Forms) to find suitable candidates. You can advertise and offer incentives. You can also find contacts through community groups, etc. If you test with only 5 users, you can still reveal 85% of core issues.

4) Facilitate/Moderate testing –Set up testing in a suitable environment. Observe and interview users. Notice issues. See if users fail to see things, go in the wrong direction or misinterpret rules. When you record usability sessions, you can more easily count the number of times users become confused. Ask users to think aloud and tell you how they feel as they go through the test. From this, you can check whether your designer’s mental model is accurate: Does what you think users can do with your design match what these test users show?

If you choose remote testing, you can moderate via Google Hangouts, etc., or use unmediated testing. You can use this software to carry out remote moderated and unmediated testing and have the benefit of tools such as heat maps.

What is the procedure for GUI Testing

GUI Testing is a software testing type that checks the Graphical User Interface of the Software. The purpose of Graphical User Interface (GUI) Testing is to ensure the functionalities of software application work as per specifications by checking screens and controls like menus, buttons, icons, etc.

GUI is what the user sees. Say if you visit guru99.com what you will see say homepage it is the GUI (graphical user interface) of the site. A user does not see the source code. The interface is visible to the user. Especially the focus is on the design structure, images that they are working properly or not

In above example, if we have to do GUI testing we first check that the images should be completely visible in different browsers.

Also, the links are available, and the button should work when clicked.

Also, if the user resizes the screen, neither images nor content should shrink or crop or overlap.

Need of GUI Testing

Now the basic concept of GUI testing is clear. The few questions that will strike in your mind will be

Why do GUI testing?

Is it really needed?

Does testing of functionally and logic of Application is not more than enough?? Then why to waste time on UI testing.

To get the answer to think as a user, not as a tester. A user doesn’t have any knowledge about XYZ software/Application. It is the UI of the Application which decides that a user is going to use the Application further or not.

A normal User first observes the design and looks of the Application/Software and how easy it is for him to understand the UI. If a user is not comfortable with the Interface or find Application complex to understand he would never going to use that Application Again. That’s why, GUI is a matter for concern, and proper testing should be carried out in order to make sure that GUI is free of Bugs.

What do you Check-in GUI Testing?

The following checklist will ensure detailed GUI Testing in Software Testing.

Check all the GUI elements for size, position, width, length, and acceptance of characters or numbers. For instance, you must be able to provide inputs to the input fields.

Check you can execute the intended functionality of the application using the GUI

Check Error Messages are displayed correctly

Check for Clear demarcation of different sections on screen

Check Font used in an application is readable

Check the alignment of the text is proper

Check the Color of the font and warning messages is aesthetically pleasing

Check that the images have good clarity

Check that the images are properly aligned

Check the positioning of GUI elements for different screen resolution.

GUI Testing Techniques

GUI Testing Techniques can be categorized into three parts:

Manual Based Testing

Under this approach, graphical screens are checked manually by testers in conformance with the requirements stated in the business requirements document.

Record and Replay

GUI testing can be done using automation tools. This is done in 2 parts. During Record, test steps are captured by the automation tool. During playback, the recorded test steps are executed on the Application Under Test. Example of such tools – QTP.

Model Based Testing

A model is a graphical description of a system’s behavior. It helps us to understand and predict the system behavior. Models help in a generation of efficient test cases using the system requirements. The following needs to be considered for this model based testing:

Build the model

Determine Inputs for the model

Calculate the expected output for the model

Run the tests

Compare the actual output with the expected output

A decision on further action on the model

Some of the modeling techniques from which test cases can be derived:

Charts – Depicts the state of a system and checks the state after some input.

Decision Tables – Tables used to determine results for each input applied

Model based testing is an evolving technique for generating test cases from the requirements. Its main advantage, compared to above two methods, is that it can determine undesirable states that your GUI can attain.

What is the procedure for GUI Testing

Graphical User-interface Testing or GUI testing is a process of testing the user interface of an application. In this article, you will learn about the basics of GUI testing and how to do GUI testing and its benefits.

A graphical user interface includes all the elements such as menus, checkbox, buttons, colors, fonts, sizes, icons, content, and images. GUI testing is done to check the functionality and usability of design elements as a user for an application under test.

Why do you need GUI testing?

Modern applications are beyond the desktop they are either mobile based or cloud-based applications. They need to be more user-friendly as per customer demand. The application interface and user experience play a significant role in application success as it is released to the market. A GUI testing team always pays close attention to each detail in visual dynamics to ensure end-user satisfaction and ease.

It tests the various aspects of the user interface, such as:

Visual Design

Functionality

Security

Compliance

Usability

Performance

Benefits of using GUI testing are:

It releases an error-free application software

It increases the efficiency of software

Improves software quality

What we check in GUI Testing?

It extensively checks the user-interface of the application under test.

Testing the size, position, height, width of the visual elements

Verifying and testing the error messages are displayed or not

Testing different sections of the display screen

Verifying the usability of carousel arrows

Checking the navigation elements at the top of the page

Checking the message displayed, frequency and content

Verifying the functionality of proper filters and ability to retrieve results.

Checking alignment of radio buttons, drop downs

Verifying the title of each section and their correctness

Cross-checking the colors and its synchronization with the theme

GUI Testing Approaches

There are three approaches to GUI testing:

Manual Testing

This approach involves human tester, where each screen is manually checked to validate each functionality by creating and [executing test cases](https://reqtest.com/testing-blog/test-management-planning-execution/). It is a useful approach when part of UI or a feature is ready, the probability of defects is more at the initial stage, and human intervention is required.

It is convenient to use where the UI is unstable and go through a lot of changes. It is viable for quick checks which can be done at any moment. Moreover, [manual testing requires expertise](https://reqtest.com/testing-blog/manual-testing-strategy/) and skills to validate design elements which are not possible without a human tester.

Record and Replay Testing

GUI record and replay tools are used to test applications for their user interface. Using such tools, testers run an application and record the user interaction with the app. A script runs to track and save the user actions, including cursor movements, which can be replayed several times to find the issues in the interface.

It also supports [automated regression testing](https://reqtest.com/testing-blog/regression-testing-types-techniques-tools/). It is can be used for cross-browser testing. It is a convenient and lightweight solution for testing. It doesn’t work well where you have lots of iterations in the GUI of the applications. Recapturing and replaying test cases to check functionality is time-consuming, and tracking their updated version is a cumbersome process.

Write a scenario of Microwave Owen

Verify that the dimensions of the oven are as per the specification provided.

Verify that the oven’s material is optimal for its use as an oven and as per the specification.

Verify that the oven heats the food at the desired temperature properly.

Verify that oven heats food at the desired temperature within a specified time duration.

Verify the ovens functioning with maximum attainable temperature.

Verify the ovens functioning with minimum attainable temperature.

Verify that the oven’s plate rotation is speed is optimal and not too high to spill the food kept over it.

Verify that the oven’s door gets closed properly.

Verify that the oven’s door opens smoothly.

Verify the battery requirement of the microwave oven and check that it function’s smoothly at that power.

Verify that the text written over the oven’s body is clearly readable.

Verify that the digital display is clearly visible and functions correctly.

Verify that the temperature regulator is smooth to operate.

Verify that the temperature regulator works correctly.

Check the maximum capacity of the oven and test its functioning with that volume of food.

Check oven’s functionality with different kinds of food – solid, liquid.

Check the oven’s functionality with different food at different temperatures.

Verify the oven’s functionality with different kinds of container material.

Verify that the power cord of the oven is long enough.

Verify that the usage instruction or user manuals have clear instructions.

Write a scenario of Coffee vending Machine

UI scenario – Verify that the dimension of the coffee machine is as per the specification

Verify that outer body, as well as inner part’s material, is as per the specification

Verify that the machine’s body color as well brand is correctly visible and as per specification

Verify the input mechanism for coffee ingredients-milk, water, coffee beans/powder, etc

Verify that the quantity of hot water, milk, coffee powder per serving is correct

Verify the power/voltage requirements of the machine

Verify the effect of suddenly switching off the machine or cutting the power. The machine should stop in that situation and in power resumption, the remaining coffee should not get come out of the nozzle.

Verify that coffee should not leak when not in operation

Verify the amount of coffee served in single-serving is as per specification

Verify that the digital display displays correct information

Check if the machine can be switched on and off using the power buttons

Check for the indicator lights when the machine is switched on-off

Verify that the functioning of all the buttons work properly when pressed

Verify that each button has an image/text with it, indicating the task it performs

Verify that complete quantity of coffee should get poured in a single operation, no residual coffee should be present in the nozzle

Verify the mechanism to clean the system work correctly- foamer

Verify that the coffee served has the same and correct temperature each time it is served by the machine

Verify that system should display an error when it runs out of ingredients

Verify that pressing the coffee button multiple times leads to multiple serving of coffee

Verify that there is the passage for residual/extra coffee in the machine

Verify that machine should work correctly in different climatic, moistures and temperature conditions

Verify that machine should not make too much sound when in operation

Performance test – Check the amount of time the machine takes to serve a single serving of coffee

Performance test – Check the performance of the machine when used continuously until the ingredients run out of the requirements

Negative Test – Check the functioning of the coffee machine when two/multiple buttons are pressed simultaneously

Negative Test – Check the functioning of coffee machine with a lesser or higher voltage than required

Negative Test – Check the functioning of the coffee machine if the ingredient container’s capacity is exceeded

Write a scenario of chair

Verify that the chair is stable enough to take an average human load

Check the material used in making the chair-wood, plastic etc

Check if the chair’s leg are level to the floor

Check the usability of the chair as an office chair, normal household chair

Check if there is back support in the chair

Check if there is support for hands in the chair

Verify the paint’s type and color

Verify if the chair’s material is brittle or not

Check if cushion is provided with chair or not

Check the condition when washed with water or effect of water on chair

Verify that the dimension of chair is as per the specifications

Verify that the weight of the chair is as per the specifications

Check the height of the chair’s seat from floor

To Create Scenario (Positive & Negative )

1.face book Chat on Mobile

Verify that user can set profile pic uploaded from his or her computer.

Verify that user can set profile pic uploaded from mobile.

Verify that uer can set profile pic from photos present on his facbook account’s photo section.

Verify that user can set profile from webcam or mobile camera.

Verify that user can set cover pic uploaded from his or her computer.

Verify that user can set cover pic uploaded from mobile.

Verify that user can set cover pic from photos present on his facbook account’s photo section.

Verify that user can set cover from webcam or mobile camera.

Verify that uploading image of unsupported type should lead to error message.

Verify that uploading image of size exceeding maximum allowed size should lead to error message.

Verify that uploading image of size less than the allowed minimum size should lead to error message.

Verify that uploading image of larger dimension than permitted should lead to error message.

Verify that uploading image of smaller dimension than permitted should lead to error message.

Verify that change in profile pic should get reflected in each post/comment of the user’s timeline.

Verify that user can add/edit their account information displayed to other users.

Verify that users can post text in their timeline and the same gets displyed to their friends.

Verify that users can post images in their timeline and the same gets displyed to their friends.

Verify that users can post links with or without preview in their timeline and the same gets displayed to their friends.

Verify that user can tag friends in their posts.

Verify that users can see the all the post in their timeline.

Verify that users can see comments, likes and reactions in the posts present in their timeline.

Verify that users can post comments, like and react to the posts present in their timeline.

2. Gmail (receiving mail)

Verify that the ‘New Message’ popup is displaying on clicking on the Compose email button.

Verify that the email ids can be entered in the fields To, CC, and BCC

Verify that the auto suggestion are working properly based on the exisitng contacts while typing email ids in the To, CC, and BCC fields.

Verify that multiple comma seperated email ids can be entered in the To, CC, and BCC sections

Verify that the text can be entered in the Subject text box.

Verify that the text can be entered in the email body area.

Verify that the editor options such as font-family, font-size, bold, italic, underline, text color, etc., are working and allowing user to format the email body text.

Verify that the user can add files in the attachment section.

Verify that the user can add images in the email body area.

Verify that the email is delivered to all the intended users in the To, CC, BCC.

Verify that the sent emails are available in the Sent Mail section.

Verify that the email is delivered to all the intended users who are using non-gmail ids such as Hotmail, Outlook, Yahoomail etc.,

Verify that the emails composed and not sent are stored in the Draft section.

Verify that the maximum number of emails can be entered in the To, CC, and BCC fields.

Verify that the maximum number of characters allowed in the subject text box.

Verify that the maximum number of characters allowed in the email body text filed.

Verify that the maximum number of attachments and size of the attachment allowed in an email.

Verify whether a warning popup message is displayed when we try to send an email without Subject line.

Verify whether an error popup message is displayed when we enter an incorrect text entered in the email To, CC, BCC fields.

Verify whether the Schedule send functionality is working properly or not

Verify whether the signature added in the settings is displayed or not when we compose an email.

Onion shopping to buy product(flip kart)

Verify that the company logo and name are clearly visible.

Verify that the user is able to navigate through all the products across different categories.

Verify that all the links and banners are redirecting to the correct product/category pages and none of the links are broken.

Verify that all the information displayed – product name, category name, price, and product description is clearly visible.

Verify that all the images – product and banner are clearly visible.

Verify that category pages have a relevant product listed, specific to the category.

Verify that the correct count of total products is displayed on the category pages.

Search – Verify that on searching, all the products satisfying the search criteria are visible on the search result page.

Search – Verify that on searching, products get displayed on the basis of their relevancy.

Search – Verify that count of products is correctly displayed on the search result page for a particular search term.

Filtering – Verify that filtering functionality correctly filters products based on the filter applied.

Filtering – Verify that filtering works correctly on category pages.

Filtering – Verify that filtering works correctly on the search result page.

Filtering – Verify that the correct count of total products is displayed after a filter is applied.

Filtering – Verify that the correct count and products get displayed on applying multiple filters.

Sorting – Verify that all the sort options work correctly. On sorting the products based on the sort option chosen.

Sorting – Verify that sorting works correctly on the category pages.

Sorting – Verify that sorting works correctly on the search result page.

Sorting – Verify that sorting works correctly on the pages containing the filtered result, after applying filters.

Sorting – Verify that the product count remains the same irrespective of the sorting option applied.

Write a Scenario of Wrist Watch

Verify the type of watch – analog or digital.

In the case of an analog watch, check the correctness time displayed by the second, minute, and hour hand of the watch.

In the case of a digital watch, check the digital display for hours, minutes, and seconds is correctly displayed.

Verify the material of the watch and its strap.

Check if the shape of the dial is as per specification.

Verify the dimension of the watch is as per the specification.

Verify the weight of the watch.

Check if the watch is waterproof or not.

Verify that the numbers in the dial are clearly visible or not.

Check if the watch is having a date and day display or not.

Verify the color of the text displayed in the watch – time, day, date, and other information.

Verify that clock’s time can be corrected using the key in case of an analog clock and buttons in case of a digital clock.

Check if the second hand of the watch makes ticking sound or not.

Verify if the brand of the watch and check if its visible in the dial.

Check if the clock is having stopwatch, timers, and alarm functionality or not.

In the case of a digital watch, verify the format of the watch 12 hours or 24 hours.

Verify if the watch comes with any guarantee or warranty.

Verify if the dial has glass covering or plastic, check if the material is breakable or not.

Verify if the dial’s glass/plastic is resistant to minor scratches or not.

Check the battery requirement of the watch.

Write a Scenario of Lift(Elevator

Verify the dimensions of the lift

Verify the type of door of the lift is as per the specification

Verify the type of metal used in the lift interior and exterior

Verify the capacity of the lift in terms of the total weight

Verify the buttons in the lift to close and open the door and numbers as per the number of floors

Verify that lift moves to the particular floor as the button of the floor is clicked

Verify that lift stops when up/down buttons at particular floor are pressed

Verify if there is an emergency button to contact officials in case of any mishap

Verify the performance of the floor – the time is taken to go to a floor

Verify that in case of power failure, lift doesn’t free-fall and get halted in the particular floor

Verify lifts working in case button to open the door is pressed before reaching the destination floor

Verify that in case door is about to close and an object is placed between the doors if the doors sense the object and again open or not

Verify the time duration for which door remain open by default

Verify if lift interior is having proper air ventilation

Verify lighting in the lift

Verify that at no point lifts door should open while in motion

Verify that in case of power loss, there should be a backup mechanism to safely get into a floor or a backup power supply

Verify that in case multiple floor number button is clicked, lift should stop at each floor

Verify that in case of capacity limit is reached users are prompted with warning alert- audio/visual

Verify that inside lift user are prompted with current floor and direction information the lift is moving towards- audio/visual prompt

Write a Scenario of whatsapp Group (generate group

Verify that on downloading the Whatsapp application, users can register using a new mobile number.

Verify that for a new mobile number user will get a verification code on his mobile and filling in the same verifies the new user account.

Check the maximum number of incorrect attempts allowed while filling out the verification code.

Verify that registering an existing mobile number for new user account registration is not allowed.

Verify that on successful registration all the contacts in the user’s contact directory get imported to the Whatsapp contact list.

Verify that the user can set DP and status on Whatsapp.

Verify that the user can update the existing DP and Whatsapp status.

Verify that the user can send messages to any individual selected from his contact list.

Verify that ‘Chats’ window contains all the chat list with DP and name and last message preview of the other person with whom chat was initiated.

Verify that clicking a chat in the chat list opens a new window containing all the chats received and sent with the other person.

Verify that the user can check the message delivered and read the time for a message in the ‘Message Info’ section.

Verify that the user can share or receive contact with the other person.

Verify that the user can create a group by adding multiple people from his contact list.

Verify that the user can send and receive the message in group chats.

Verify that users can send and receive images, audio, video, and emoticons in the chat with individuals.

Verify that users can send and receive images, audio, video, and emoticons in group chats.

Verify that the user can send and receive chats in the secondary languages available.

Verify that users can delete text, images, audio, and video messages within a chat.

Verify that users can clear their complete chat history in an individual or group chat.

Verify that users can archive chats in an individual or group chat.

Verify that users can block a user to prevent any message from getting received from the blocked contact.

Verify that the user makes WhatsApp calls to the person in his contact list.

Verify that the user can receive WhatsApp calls from the person in his contact list.

Verify that users can mark chats as favorites and access all chats marked as favorites from the ‘Favorites’ section.

Write a Scenario of instagram ( video call with chat

Powered By

When Is It Introduced?

Instagram is the most popular social networking platform in the world. It was a huge hit right away, with over a million users only two months after it went up. Kevin Systrom and Mike Krieger created Instagram in San Francisco.

Instagram was started on October 6, 2010, and it grew almost instantly. From a small number of users, it quickly grew to become the most popular photography app, with 100,000 users in one week and one million in two months. According to Kevin Systrom, the software took only eight weeks to develop yet was the culmination of a year's worth of work. Facebook eventually purchased it for $1 billion in 2012. It now has over 600 million active users and continues to grow rapidly.

How Many People Can You Video Chat With?

Instagram is one of the most popular social media platforms, with millions of users regularly. Users can share their photos, stories, and other content with their followers on a private or public account. Like other social media programs such as Facebook Messenger and Microsoft Skype, Instagram allows users to video chat with one another. So that you may keep in touch with your friends, family, and teammates. The best part is that you don't need a phone number to make an Instagram video call; all you need is excellent Internet access. You can even invite someone to join a video chat that is already in progress.

Now, if you're wondering how many individuals you can video chat with, the answer is, Instagram allows you to video chat with up to 6 people.

Will Instagram Video Chat Show Your Face?

If you're in an Instagram Direct group discussion and there's an active Video Chat, the camera icon in the top-right corner of your thread will become blue. You only need to tap the camera icon to join in the fun! You can also talk for as long as you want on Video Chat because there is no time limit. Remember that when you minimize a Video Chat, you will be the only one who can see what's on your screen! And unless your pals also limit their chat, they'll be able to see your face as you browse.

You may wonder if you can turn off your camera on an Instagram video call. Those who want to use the features can find them at the bottom of their screens while doing an Instagram live. Users will mute the audio by tapping the microphone button or turning off the video camera by tapping the video camera button.

Will You Get Charged For Making A Video Call On Instagram?

Instagram is another of the best free international calling applications. Finally, you may use Instagram to make free audio or video chat with that person and have an uninterrupted conversation. Furthermore, you may minimize the video chat and multitask on Instagram, sending messages and photos in Direct, surfing your feed, creating a story, and more while on the video chat.

What Will Show On Your Phone When Somebody Calls You On Instagram?

When someone video calls you, you will receive notifications on your phone similar to regular ringing, and when you pick up or accept the call, they will be able to speak with you through video call.

You might be thinking, "How do I get Instagram video call notifications?" Go to your profile's gear icon and look under Push Notifications for the new video chat settings to update your video chat notifications.

How To Use Instagram Video Chat?

You can use video chat on Instagram by following this step-by-step guide. But, before you depart, keep in mind that Direct Messaging allows you to video chat with up to 6 people.

If you don't have access to video chat on Instagram, go to the App Store or Google Play Store and upgrade your app to the newest version. Follow the steps outlined below to start a video chat on Instagram.

Step 1: Go to your device's Instagram app.

Step 2: In Feed's top right corner, tap the Paper Airplane icon.

Step 3: Tap the Video Camera icon in the top right corner.

Step 4: Select persons from the list below or search for someone by tapping Search.

Step 5: The person or group you're calling will be notified that you've called.

Your screen will change to a video chat as soon as the recipient receives your video call. During a video chat, you cannot resize your screen to look at other things on your screen, but you can add someone to an ongoing video chat.

Write a Scenario of Whatsapp payment

The users of WhatsApp Pay have to follow the below-mentioned steps to set up the account.

Step 1: In the case of Android devices, first open WhatsApp and click on the three dots found on the top right-hand side of the app. For iOS devices, first, click on the ‘Settings’ option found on the bottom right-hand corner of WhatsApp

. Step 2: Now proceed further and select the ‘Payments’ option and select ‘Add Payment Method’. The user will be asked to accept the WhatsApp Payment policies.

Step 3: Now click on ‘Accept and Continue’ to proceed further.

Step 4: Now the user will get a list of banks to select from through which they wish to make payments. Further, if the user has two bank accounts with one bank, then select the respective bank account using which you prefer to make the payments. Do ensure that while selecting the bank account, the WhatsApp mobile number is linked to your savings bank account, as an SMS will be sent to the mobile number for verification purpose

. Step 5: Once the verification process is completed successfully, the user will be required to set up a UPI PIN for making further payments.

How to Send Money Using WhatsApp? The users of WhatsApp have to follow the below-mentioned steps to send or transfer money to others.

Step 1: First select the contact from your WhatsApp contact list to whom you want to send or transfer money.

Step 2: Proceed further and open the Chat option and select the payment option. If in case, your selected contact does not use the WhatsApp payment option, then the user can transfer the money using the person’s UPI ID of any other payment apps like PhonePe, Google Pay, PayPal and so on. On selecting the transferee’s name, you will receive a pop-up which states that the selected contact does not use the WhatsApp payment mechanism. Post this, you can select the ‘Send to UPI ID’ option. One can even transfer money to other’s account using the ‘Scan QR Code’ option

. Step 3: After selecting the respective receiver, now enter the amount followed by UPI PIN.

Step 4: Post successful verification of PIN, the amount will be transferred to the receiver’s bank account.

How to Receive Money/Funds Using WhatsApp Pay?

There are two scenarios in which a receiver can receive funds through WhatsApp Pay. The first one is the receiver has WhatsApp Pay and in the second one, the receiver does not have WhatsApp Pay. In case the receiver has WhatsApp Pay Here the sender will transfer the money to the receiver through WhatsApp Pay. All that the receiver has to do is to follow the instructions above to transfer the money. In case the receiver does not have WhatsApp Pay In this case, if the sender does not have WhatsApp Pay, yet they can still receive money. All one has to do is to share your WhatsApp Pay UPI ID with the sender. On receiving the UPI ID, the sender will enter the details of WhatsApp Pay UPI ID on the other payment platforms like Google Pay, PayPal, PhonePe and so on to send you the cash. On receiving the funds, your WhatsApp Pay will show a notification of the receipt of the amount. Modes of Transaction on WhatsApp Pay The users of WhatsApp Pay can send or transfer the amount to their existing contact, after which it enables UPI ID. The users of WhatsApp Pay can enter the UPI ID of the receiver and transfer the funds. They can also use QR Code. Apart from using the UPI ID, QR Code, users can also send money to others who are not on their contact list using other payment platforms like Google Pay, PhonePe and so on. Steps to Add a Bank Account in WhatsApp Payment

Step 1: Firstly, open the WhatsApp messenger app on your smartphone and now tap on the three-doted icon located on the top-right corner of the home screen.

Step 2: Now select the ‘Payment Option’ and the list of banks will appear on your phone. (Please Note: Here the user can only select the bank account which is linked with the existing mobile number which is registered with WhatsApp).

Step 3: Proceed further, now the user will be asked for UPI PIN, if in case, the user already has a UPI account, enter the relevant details and proceed further. If the user does not have a UPI account, you will have to verify your account details by submitting the relevant debit card details.

Step 4: Once all the above-mentioned steps are completed successfully, the user can transfer or send money or even receive money using WhatsApp Pay. Benefits of