**Software Testing Assignment Module-3**

1. **What is Load Testing?**

* Load testing is a kind of performance testing which determines a system’s performance under real-life load conditions. This testing helps determine how the application behaves when multiple users access it simultaneously.
* It is a performance testing to check system behaviour under load. Testing an application under heavy loads, such as testing of a web site under a range of loads to determine at what point the system’s response time degrades or fails.
* This testing usually identifies –
* The maximum operating capacity of an application
* Determine whether current infrastructure is sufficient to run the application
* Sustainability of application with respect to peak user load
* Number of concurrent users that an application can support, and scalability to allow more users to access it
* It is a type of non-functional testing. Load testing is commonly used for the Client/Server, Web based applications – both Intranet and Internet.

1. **What is Stress Testing?**

* Stress testing is used to test the stability & reliability of the system. This test mainly determines the system on its robustness and error handling under extremely heavy load conditions.
* System is stressed beyond its specifications to check how and when it fails. Performed under heavy load like putting large number beyond storage capacity, complex database queries, continuous input to system or database load.
* Stress Testing is done to make sure that the system would not crash under crunch situations.
* Stress testing is also known as endurance testing.
* Most prominent use of stress testing is to determine the limit, at which the system or software or hardware breaks.
* It also checks whether system demonstrates effective error management under extreme conditions.
* The application under testing will be stressed when 5GB data is copied from the website and pasted in notepad

1. **Write a scenario of only WhatsApp chat message**

* Internet must be required
* Without phone number we can’t communicate If video size large then it takes too much time to sending
* Data more used while sending file, images and video form of document
* Video send only limited size
* It allows only 10 images at a time
* We can’t filter the image if we send directly whatsapp camera
* Image quality reduce after sending it
* If we’re blocked then we can’t communicate
* If network connection is poor, then it will take more time to send the message

1. **Write a scenario of pen**

* If length of pen or diameter is not proper, we are not able To write as per specification
* If pen weight it too heavy and not smooth, we can’t write in proper way
* We can’t erase the pen
* Pen refill get summed, if we are not using long time
* If pen cap is lost, then ink will dry
* If we pressing too much white writing, ink may be flow
* If we put pen in water and after we try to write, we are not able to write with this pen
* If low quality pen Fall in ground, so pen point will break
* Sometimes pen button will get stuck, if presses continuously for 5 to 6 times
* If gel pen is too much dark, then pen impacted on paper
* Gel pen get dried easily
* Gel pen gr spread easily
* Pen is not work when we try on plastic, glass etc.
* Ink pen is more expensive
* If pen structure is not proper, we can Not Handling it.
* If we write using cheap pen, the character showing light, it is not dark
* If we lost pen cap, we can put in pocket
* Pen sign is not Remove easily, if ink licked in white clothes
* In metal pen, we can’t see refill
* If pen tip is lost, the pen will useless

1. **Write scenario of pen stand**

* If pen stand falls into ground, many pen becomes useless
* We put limited pen in stand
* Pen is not used widely, when we put in back side of the stand
* If we put small things like eraser in stand, so we can Not find easily
* If pen stand smaller than pen, pen is not set proper in stand
* If pen stand larger than pen, we can’t find pen easily
* If pen stand bottom part will break, pen stand become useless
* If many Quantity of pen put in stand, we can’t find pen which we want.
* If we put heavy item in plastic pen stand, it is more chances to break the stand

1. **Write scenario of door**

* Needs regular maintenance and care
* Timber doors costly and catch fire easily
* Steel doors can easily Scratched also difficult to remove stain compare other material
* Wooden door usually more expensive
* Wooden door can’t absorb water
* Steel door can be dented if hit by something
* Wooden door Suffer from termite exposure
* Panel door needs more daily cleaning because dust retains more on door as compared to other
* Glass panel doors easily broken, when there is high flow
* Metal doors have rusting problems
* Metal doors might be heavy in weight
* Automatically revolving is doors about getting stuck in componenet with another person
* Folding doors is difficult installation
* Problem for children in revolving doors
* Steel doors will be exposed
* Steel door need mould to shape
* We have Loss of power, then automatically does not open/close until technical arrives
* Wood door can easily break compared to other

1. **Write scenario of ATM**

* If we forgot password, we can’t withdraw money
* Cash withdraw limits on ATM
* ATM card is lost, it can be misused
* Criminal can physically destroy ATM in order to access the cash
* Some ATM machine fail to recognize bank card
* Transaction cost are huge
* No bank assistant to help you ask question to related to a problem
* Banks have limited ATM machine in rural areas
* If customers don’t have knowledge of its operation so feel hesitate
* If dispense Error in ATM, not received rupees but account will be debited
* Customers invites charging various fees for using it
* ATMs facing server down issue
* We can not access money less than 100
* ATM takes 3 invalid PIN attempt

1. **Write Test scenario of Microwave oven**

* Rotis are impossible to make in oven
* Regular maintenance
* Chances of food poisoning
* oven radiation can heat body
* Advisable to stand front of oven as its harmful while cooking
* It is not used for deep frying
* Taste will change, compared cooking in stove
* Leads to dehydration
* Unsafe to cook in plastic cook wave in microwave
* Microwave have limited capacity, so they are not best option for large family
* You can overheat food leading to burnt fingers and mouths
* Microwave can weaken immune system

1. **Write a test scenario of coffee vending machine**

* It quite expensive
* Cheap quality machine won’t last long
* Takes a lot of extra space
* Affect taste of coffee
* Maintenance issue
* Cleaning by hand is not easy
* Leakage because of technical issue
* Limited option to make coffee
* While too much force makes coffee bitter
* Not easy to manage
* Automatic coffee machine needs daily cleaning, otherwise flavour of drinks will be altered

1. **Write a test scenario of chair**

* Limited colour selection for office chair
* Costly office chair
* Spend daytime in office chair, posture and back begin to suffer
* Healthcare chair can be costly
* If we sitting chair in wrong position, it will affect our body
* Chair is not Adjust properly, it can cause blood circulation
* If your above or below average of height you could problems with seat into backs of legs
* If children Climbs on chair then it can hurt themselves
* Wooden chair scratched easily
* Plastic chair can easily Broke if overweighted person sit on chair
* Only one person can seat in chair
* If there is no support for hands in chair, we feel uncomfortable for sitting
* Some chairs can’t provide enough space to seat

1. **To create Test scenario (positive/negative)**

* **Facebook chat:**
* Positive scenario:
* It makes faster to chat because app directly connect
* Like texting messaging
* Allows users send file with ease
* Users can make calls
* Does not need verification
* Provide stickers
* Video chat
* We send GIF to users
* It provides turn off active status
* We can block user
* We can hide chat
* **Negative scenario:**
* Battery sucks
* Internet must be required
* You have to download messenger app
* You can’t direct message within Facebook app
* It is not alternative
* Difficult to protect privacy
* If you don’t have limited space, you can’t the download messenger

1. **Write a scenario of Gmail**

* Positive scenario:
* Google provides users each 15gb storage so user can store the important document
* It allows to users send attachment like Subject, label, To date and so on
* High level of security
* Allows instant messaging
* Advanced spam filters
* Communication faster
* Online anywhere access
* Synchronization with outlook
* Easy search
* You can do research using reader
* It is free
* Through we can open calendar, contact**..**
* **negative scenario:**
* Internet must be required
* Google integration
* Targeted advertising
* Search limitation
* You can’t Ignored for long time
* Can contain virus
* Requires Timely response

1. **Scenario Flipkart (Online shopping to buy product)**

* **Positive scenario:**
* Allows easy and quick access to information
* Easy Track Material
* Online status of purchase order
* Huge number of products in multiple categories
* Sometimes free delivery or no delivery charge
* Good discount available for any type of products
* 24\*7 availability
* Branded and non-branded both are available
* There is cash on delivery option is available for customers
* 30 Day replacement warranty
* Million of books we can purchase before launching with option pre-ordering
* Multiple courier services
* Purchase non-damage products
* Available different colour and size
* We can also apply filter that we can find easily products which we want
* We can do add to product option
* We can show product details when we want to buy product
* We can show reviews of products
* We can see how much time take to delivered product
* **Negative Test scenario:**
* Less contact with our community
* Lack of availability town & cities
* High Cost of shipping charge
* High products value
* clock Sometimes Fake image are shown
* Take a lot of time to deliver products in rural area
* Minimum order for free home delivery has been raised to 500
* Deliver goods within India
* Sometimes we deliver the products buy package are empty
* We can’t touch the products
* We can’t bargaining
* Lack of interaction
* Internet is required
* Not having a flexible return policy
* Sometimes we can not get products of per specification

1. **Scenario of Wristwatch**

* **Positive scenario:**
* Less distraction
* You won’t able to immediately see clock be able to have your phone switched on
* Women have wear watch as accessories
* It is easy accessories, like no more struggle to pull that off
* Significantly enhance appearance
* It is effortless and it can be done matter of second
* If you can’t phone with you, it is convenient
* Dedicated for usage within large number of areas like racing, flying and much more.
* Smart wrist watch provide Bluetooth, WIFI and Celluer connectivity
* Smart watches in order to avail unlimited data and voice call
* It looks More Stylish and classy to look at your wrist to take up your from pocket
* Incredibly reliable
* Use without any electricity
* If reminds you only have 24 hours in day
* It gives positive attitude
* We Can understand time management importance
* We can set time to our specification
* **Negative scenario:**
* If we purchase silly Amount of watch, it is not good to looking
* Sometimes it is not comfortable
* We can’t use while we work with water to wearing waterproof watch
* If it falls in ground, watch glass can be break
* Battery in your watch dies, it will prohibit from working until you can replace it.
* Want to seek out the help of watch repair mechanism
* Get damage circuity replaced in hurry
* Smart watches are costly compared to other
* Some watches are not water resistant
* Touch screen is smaller in smartwatch compare to phone
* Smart watch can’t use without phone
* Sometimes smartwatches gives you inaccurate data
* Collected personal data in smartwatch
* Phone has to nearby in smartwatch
* Radiation exposure

1. **Scenario of lift (Elevator)**

* **Positive scenario:**
* When you reached your desired Floors doors will open automatically
* Can carry heavy things
* Moving fast
* It Save energy
* For citizen lift is better option
* Saves extra spaces
* Simple and reliable
* Saves a lot of time
* It Decrease effort needed to walk on stair
* We have option to help out like calling button
* **Negative scenario:**
* Costly to install
* It takes about twice long average go from one floor to next by
* Germs can be arries
* Promotes laziness
* Regular Maintenance
* Get stuck In middle due power cut off

1. **When to used Usability Testing?**

* Used to verify mobile interface (UI), navigation, and application, as well as consistency, and soberness
* Executed manually without use of tools

1. **Scenario of WhatsApp Group chat**

* Positive Scenario:
* Group member can chat one another
* Business use it for employee to connect work and together
* Sharing information with large number of people
* You can easily connect likeminded person
* Can share your thoughts with people
* Can make friends
* Can communicate easily
* **Negative scenario:**
* Internet must be required
* Lack of privacy
* Every participant can get easily your number
* Stranger to text you
* Only group admin can add the member
* Minimum 256 people can add in WhatsApp group

1. **Scenario of Instagram (Video call with chat)**

* **Positive scenario**:
* When we ended call, it can show in DM
* We can add filters while video calling
* Things can be shared
* Notification comes
* Mic off
* Video hide
* We can video group call
* **Negative points:**
* Looking at yourself while video calling, may affect mood
* If connection is pure, we can’t chat and video call both at a same time
* Time consuming
* App installation must be required
* Internet must be required We have account id of user
* Distraction
* Does not save video call

1. **Scenario of WhatsApp Payment**

* **Positive scenario:**
* Don’t have online wallet like Paytm, GooglePay
* It is free
* No other app needed
* Can also used with people who don’t have whatsapp
* Send money in few second
* Secure
* User communicate with each other
* **Negative scenario:**
* Internet required
* WhatsApp Must be installed
* Need for constant updating
* Require phone number
* Only allows documents between individuals
* Lack of privacy
* Poor security
* Need to read QR code
* Scam