Computer networks

A computer network is a network that allows you to store, send and interact with other people and this is only some of the things computer networks allows you to do. The networks I am going to talk about are a gaming network and social networking.

Gaming networks

The uses of a gaming network are to play games with friends anywhere which is a multi-user environment and you can use the online features of the game like deals on any other content with the game. Also a service like Xbox live allow you to get free content and allows you to watch movies on the internet and use other service like skype to talk face to face with a friend as you are playing a game. Furthermore, you would have to pay to use Xbox live then it will allow you to use the network for online uses like games or the internet and if you buy it you unlock many other services.

The features of using a gaming network are playing with friends and random people around the world in a wide area network which will make you able to connect with more people at one time and to play with people from other countries not just people in your local area. Also the network uses client servers to connect different skill levels of people around the world so the matches are balanced and the server would be able to hold more information which would make it easier to connect and it makes it easier for the client because the server manages must of the information and security for your devices.

Also the network can use wireless or wired by using an Ethernet cable but the fasters on is the wired and the wireless is easier to set up and any of you gaming devices and use multiple networks like Wi-Fi or 3G or 4G.

Also the topology of a gaming network is would use s point-to-point because it is a simple way to set up a network it is used by directly connecting the wire to a device then it will transfer data in the simple way. Also you can use an Ethernet cable to use the network and this directly sends data form one device to an another and this lead into that you can use bus or star method as well which work in the same way just with small difference.

Security features and utilities and some of the features for you files and data and you can change a number of other things like you background, your online name which is what other people will see you as and to being able to change your internet connation method and if you want to change one of these the network will ask for your password. Also being hacked into is hard on the network but if the right person has the skills but the security is up to the servers to protect their network and the network and the server are updated to make the network more reliable. Also the network does have a level of access because have to make a password and a username to set up you as a client and there is a second password which gives you access to the network and must you files and data is protected by the server. Also virus protection is very good on the network but must cases of virus getting in are because of the client open bad emails or going on bad websites.

Also the service allows you to login in which you have to put a code in to get in and manage your account. Also to talk to friends you can send text messages and you can invite them with a voice message using a microphone and you can use the party feature which groups your friends in one voice chat. Also it allows you to use apps that use the internet like Netflix and google and all of these features are uses on the network.

Also the user can use the network on his own which means you cannot get access to different app and other software which can only be uses with friend or other people. Also if you were with friends you will not be able to use some features which can only be used by yourself but using the network with friends opens more features because that is the way the network was made.

Also the network uses the protocol TCP this good for a gaming network because it is easy to use and it is connection based and reliable which would make using the network more fun because you do not have to think about reliability issues. Also TCP breaks up your data into packets for you and it makes sure it does not send data to fast for your connection to handle. Also a gaming network would use full duplex because it would have to send data two way at the same time because this would make it able for to players to play in a game at the sometime and the transfer rate would will be different if you use wired or wireless.

My review of the gaming network is that the experience is very good for the user because of the connectivity to other players is fast which would make for a better experience for the user because there is less waiting and more of playing using the network and this would make the network more accessibly for now users to come in because they would trust the networks connectivity.

Also it is very reliable but sometimes the network can fail if there are too many things for it to process which would make for a bad experience for the user because it will make the network slow or it would just not work which would affect the users view on the network but it is very uncommon for the network to fail or have any slowdowns. Also other things can affect the reliability that the network has no control over like the speed of the user’s internet or where they live may affect the reliability.

Moreover, the performance of the network is very good but can have same problems like if the network where to fail because of an attack or if the servers of the network are having problems so they will have to take the network down so they can repair the servers this would be bad for the user because it can happen at any time but must of the time this does not happen.

Also the speed in which all of the features work is good but it can go slow if you have too many things open like a game and an app at the same time can slow the network down but the user can change has network speed so he can use more features at one time and the speed can be affected by how devices which are using the internet but this is only a problem if the user’s internet speed is not that good.

Strengths and weaknesses of gaming network

Strengths

Playing online games with friends and other people around the world is a strength because you can play with friends if they live miles away and you can talk to them using a mic so you can talk as you play on the network. Also you can make friends from the local area or in a different country on the network by playing games and you can talk to players to get information to be better and to work to give to take down an objective. Also the network allows the user to play on the network by has self or with a group of friends on the network.

The second strength of the network is the reliability this is a strength because you do not want the network to crash because you will lose progress but the network is very reliable so this only happens when the network has security issues. Also this means when you download games or films off the network it stays at the speed of your internet so you know when the download ends and the network speed can be faster when you use an Ethernet cable so any downloads and games will run faster.

Weakness

One weakness is that the network gets attacked more times than it should and it is mainly hackers who flood the network with lots of information to crash the network which means you cannot play who are in an online game because you cannot connect to it and this can be going on for days. Furthermore, this happens because network has not got the right software to stop this because the owners of the network servers do not want to spend the money to better protect the network.

Another weakness of gaming networks is how much of the internet it takes up. This is a weakness because when you download a game the speed of all the devices and other gaming devices slow down and this means that trying to play games as it downloads is all must impossible because the network takes a long time to load a game or load apps and other drives like iPhone also slow down and if other houses near to your home use the drives it has some effect on them as will.

Social networking

The uses of social networks are to talk to friends anywhere and you can keep up with the latest news. Also the network can be used to play games but they are not the main use and you can upload photos so everyone can see them and people like to look at friends or family’s relationship status. Also some people like to check their news feed which shows the most up-to-date post by friend and their friend also you can go on multiple social media sites on most devices like phone, iPad or laptop which means it is not limited to a PC.

Furthermore, the features of social networks are as follows: the connection method is wireless and wired by an Ethernet cable because to use the site you need to connect to the internet but to use it on phones you just use wireless. Also it gives you the ability to send anyone who is on the site messages which can be text, photos or videos and you can search for places in the local area like coffee shops or a hardware shop also you can like messages on the news feed or you can dislike them and then you can put a comment if you want.

Also the scale of the network is a wide area network because you have to connect to people around the country and the world. Also some other features of the sites are that you can edit your profile like your name and add an image of you or something like a football team or film cover and you can edit your relationship status to single or that you are in a relationship.

Also the way the network stores in information is by client-server because it would have to store lots of information like passwords and personal information and it would make using the network faster. Also you can use BitTorrent they use this because it is the easiest to transfer large files to thousands of locations in a short period of time this would be good for Facebook because millions of people use it so this method would be easiest way to transfer to date.

Also the topology of the network would be a point to point because you would have an Ethernet cable which would connect to the PC so you can access the internet to use the social media sites. Also the protocols which a social network uses are IP/TCP because IP handles the routing of the transmission than TCP makes any translations needed for the systems and computers to understand each other and the Ethernet handles the physical connection. Moreover, some feature of the sites is that you can play games and you can try and beat your friends highest score and the news feed is a big feature of Facebook which makes you able to see anyone who is your friend or other users which your friend and put a message.

Also the security of the network is not that good because the network has a lot of threats like identity thief, social profile hacked, and butting personal information for everyone to see but there are ways to stop some of these the network has like passwords which you should make a very strong password to make it harder for it to be stolen your files and data and do not put where you leave on there. Also the utilities of the network are not that great because most of the social media site do not make back up of your data so you can lose all of your data if it gets hacked or stolen. Also the access control is not that good because you only have a username and password which may stop them for changing anything but anyone can go on to your account and see your information like photos and where you leave and more and this might create same problems down the line. Also some social media sites do not have good virus protection so this leads to many people have vires because they clicked on a bad link.

The service the network offers is a login so you can only now how to get in by a username and password and you can manage your account with different settings like how you blocking people and make personal information more safe. Also there are no permissions for files and folder so anyone can look at them which will create some security problems because there is no defence from the network it just gives you little setting to manage who can look at your data like only have friends and family to access the information. Also you and use the network individual like playing some of their games that have or you can use it in a group of your friends but the main use of the network does not change if you are by yourself or in a group but there is some feature which you can only use with friend’s like group chart and it is very hard to be by yourself because the site is always online so you always have someone to talk to.

Also the way data is transferred is a full duplex which is transmission of data two to point at the same time and this would be how the network transfers it data because you talk to people on the network at the same time so this would be the only way of doing this and the transfer rate would have to be really fast because you are instant messaging which the person you are talking to would got the message instantly after you sent it.

My review of the social network is the user experience is all around very good but the security is the only thing that brings it downs and stops it from being a perfect experience but most of the time the experience is good.

Also the reliability of the network is good but the reliability of the security is not good because you can get hacked very easily and are open to viruses and other threats on the internet which may mean you lose your data and personal information which would make the user experience not very good which would make the use lose trust in the network and the sites.

Furthermore, the performance is all around very good but it can slow down if the network has different devices using the internet at the same time you are using the network but if there is some performance trouble is still runs very good just a small slow down which would affect the user in a good because there trust the performance of the network and that it will work every time.

Also the speed is very good because it has to go through different accounts and features and if you go through a lot of accounts It still has the same speed if you were just started and the speed is very good if you are not using your internet but the speed can get affected if you go to more remote areas because the network cannot connect to their very well.

Also the connectivity is very good because the network most be good because there so many people using is at one time so in my opinion its connectivity is very good which would affect the use positively but if the networks server is have problems the network would lose the some of that connectivity which would make the user not happy because they would be writing on a social networking site to go on a game or look at photos.

Strengths and weaknesses of social networking

Strengths

One strength of the network is the most reliable network on the internet so it would provide the best experience for its users and to give a reason for more people from other networks with smaller features to join this one. Also you can connect and talk with friends, family and others using the network and you can meet new people and make new friends in a virtual world. Also you can get the latest news from family and friends like events, parties and weddings and you can find world news like bombings in other countries or a murder in a local area. This is possible because the network uses a wide area network because of the amount of people who have to connect to the network and you can access the network at any time of day every day in a week which would be in the billions and the amount of information on the network which it would have to process at one time would be huge.

A second strength of the network is that it is free and does not cost any money to use but the games on the sites might have some small payments for things like buying coins for a game or some clothes for an avatar. Also the network uses wireless mostly so this means you can use it anywhere you want on all different systems like your phone, iPad and computer this would make access the network easier because you are not in a set place and the network is very strong so the site will not have many slowdowns or crashing. Also you can use an Ethernet cable to connect and using one would make the network faster to use.

Weakness

One weakness of the network is that your information is never personal on the network because anyone can find you on the site which can lead to people picking you to hack your account because you may have a high paying job or because you have a power position like a head teacher or a member of government and someone may talk to you using a fake account and try and talk you into meeting which may lead to someone getting attacked or getting killed. Also this may lead to someone taking your information then claim that they are you which is identity theft then they can get your money and another information they can use for their benefit and this is a problem because the network does not have any backups for your data or virus protection. Also the network has a lot of hackers because the network security is not that good so this means your account may get hacked and they can see all your information and then they will sell the information which you made personal.

The second weakness of the network is that the site has a lot of online bullying which can make using the site not nice to use for the user if they are a target of this and this is done by people put unkind messages, images or videos directed at you and if some does not find help they want to kill themselves. This would be a weakness of the network because it does not control who connects to the network and who the user talks to on the network and this would make the user experience bad because the users think the network would stop the type of people who would bully other people. Furthermore, you would think the network would have a software which would find the people who are doing bulling and then take them down of the network or control who they talk to.