

Face Recognition Based Solution For Security Using Web Technology

V.Srinivasarao

B.Tech(IV/IV),ECM, K L University,Guntur(dt),

Abstract: Developing security methods for the Web is a daunting task, because security concerns arose for the fact. From the past few decades people all over the world are using internet.

As the usage of internet has become more there are the many problems arising, in this paper we are introducing the new proposal named "security based face recognition method".

Since these systems include many subsystems Operating System Database System etc and may involve multiple organizations complete security solutions are enormously complex so the proposed way we approached is to make the websites more secure by creating the face recognition method along with the details provided during registration maintaining security is the most necessary step. As many institutions, faculty/children share their printers, laptops, systems there is the chance for the files get misplaced, Many of our accounts are being hacked, so by using face recognition method we can provide more security.

Keywords: Email, Security question, image, face recognition.

1. INTRODUCTION:

Web security was First developed in 1995, It may seem obvious that more people are going online to shop, send email, manage their bank accounts, and just about everything in between, but when you stop to think about just how many people use the internet, the numbers are dramatic

Now- a- days Internet is playing a prominent role and is being used by all the people in many ways like in olden days many educated people/industries use the internet for sending mails or for searching the topics for delivering the class/lesson very well. And children also search the matter related to studies and many other things they want they even play games. And many people store many mails and files in their accounts. Since many of us don't want any one of our friends to know that information and our secret mails we store in our accounts but now due to hackers all our accounts are being hacked and the privacy and secrecy of our accounts are being lost and are leading to many problems.

Security is a critical part of your Web applications. Web applications by definition allow users access to a central resource the Web server and through it, to others such as database servers. By understanding and implementing proper security measures, you guard your own resources as well as provide a secure environment in which your users are comfortable working with your application

As use of the internet has grown, the web has also become more popular with scammers, identity thieves, and other cybercriminals. Threats to internet users have become widespread, and it is estimated that more than 3.5 million

people fall victim to "phishing"—a type of online identity theft —each year in the United States alone.

In order to avoid these problems to some extent we are introducing a new method in our paper by providing our face recognition. Even there are many types of security providing methods like security questions, by providing them with recovery mail option at the time of registration, providing them with mobile number for sending the password to their mobiles for the number by the number the users provide, by registering with the image and for that methods also there are many drawbacks.

1.1. Why many people are interested in hacking?

- Recognition
- Admiration
- Curiosity
- Power & Gain
- Revenge
- M.O.N.E.Y

RECOGNITION: People are interested for hacking because for their popularity to be increased and to be recognized as the famous talented person in front of their managers etc....

ADMIRATION: People are interested for hacking the accounts because if they complete the work very fast and with good result they are being praised and people also look admirable so they are interested to hack the accounts.

CURIOSITY: People are interested in hacking because if any fascinating thing happened and if it is not known to us and we feel very curious to know about it and so in the process of knowing the facts they hack the accounts.

POWER & GAIN: People are interested in hacking because in order to become superior than one another and to gain power they hack the accounts.

REVENGE: People are interested in hacking because if any problem occurred because of us they also try to harm us so in order to take revenge on us they try to hack our accounts.

MONEY: People are interested in hacking because some people In order to gain money by gathering/collecting some information which leads them to become great and gain money so they are interested for hacking the accounts.

2. LITERATURE SURVEY (EXISTING WORK):

We have just studied two important areas where security is needed: communications and e-mail. You can think of

these as the soup and appetizer. Now it is time for the main course: Web security. The Web is where most of the Trudies hang out nowadays and do their dirty work. In the following sections we will look at some of the problems and issues relating to Web security. Security is a broad topic and covers a multitude of sins. In its simplest form, it is concerned with making sure that nosy people cannot read, or worse yet, secretly modify messages intended for other recipients. It is concerned with people trying to access remote services that they are not authorized to use.

In present days there are many methods for avoiding our accounts from being hacked and to provide security and privacy.

The Ways That Are in present in current world :

1. CAPTCHA
2. SECURITY QUESTIONS
3. RECOVERY MAIL
4. MOBILE NUMBER
5. GUESSING THE PHOTOS IN OUR ACCOUNT
6. IMAGES AT TIME OF REGISTRATION

CAPTCHA: In this method we give them words either case sensitive or without case sensitive in the zigzag/scrambled way and we have to guess the words and then Retype it in place provided to us by this we can confirm whether the system/human is accessing the account. By doing this also security is not provided.

SECURITY QUESTIONS: In this method at the time of registrations we are provided with some drop down list of questions and we choose one of the questions from that and answer that security question. So, at the time of any problem in accessing our account they ask us that question and if provide correct answer only we can access our account. This also seems that we cannot provide much secure.

RECOVERY MAIL: In this method, We provide Them the other option of sending the mail to another account of ours/our belongings/our friends so that the passwords/links will be sent to their mails and to some extent the hacking may be avoided. By this also there is a drawback that if account get deleted then we may not provide secure.

MOBILE NUMBER: In this method we provide our mobile numbers so that the passwords may be sent to ours mobiles so that no one can see our passwords except us so in that way we can avoid hacking. For this method if the mobile number is missed/any problem then we may not.

GUESSING THE PHOTOS IN OUR ACCOUNT: In this method We are provided with an option of guessing the images that are already existing in our accounts, so that they can verify our accounts. In this method also there is a drawback that is as our close friends will be with us they may know our images. pictures in our account and can access the accounts so we may lose security.

IMAGES AT TIME OF REGISTRATION: In this method we should register with an certain/particular image only and the same image should be given at the time of logging into the account by this way also there is a drawback because we should carry the image with us wherever we go so this is the drawback.

Now existing all this drawbacks we are going to introduce a new theme in this project.

In this project we are going to introduce a new method that is we are going to provide a new way of securing our accounts ,ie, by the face recognition.

3. PROPOSED WORK:

In present state all the people who are being using the many websites for searching the information or other work they are doing and people who wish to keep their information safe and secret in their web accounts ,ie, mails etc are facing many problems this days because of developing in technology to some extent. Because all the people are facing the problem of hackers hacking our accounts. And because of people hacking our accounts the information which is kept secret and safe is known to all the people because of hacking and wrong information being passed to all the people without the real person saying the information. So we should develop many more solutions in order to provide the more security for our web accounts. In order save our accounts from being hacked we should develop many more ways to prevent the hacking .There are some type of methods existing to overcome that hacking of accounts.

In this project we are going to implement new type of security to our accounts in the easiest way. The solution we are proposing for preventing hacking is that “we enter our username and password while opening our accounts”, Now in our method we are also providing another rule which is compulsory for every one to open their accounts. That rule is that not only the username and password is given but at the time of registration we register along with our own face recognition as the technology is increased and all the laptops and systems are having camera in the systems so we can make use of this option and provide security for our accounts which is also the best and easy way to provide secure and privacy way.

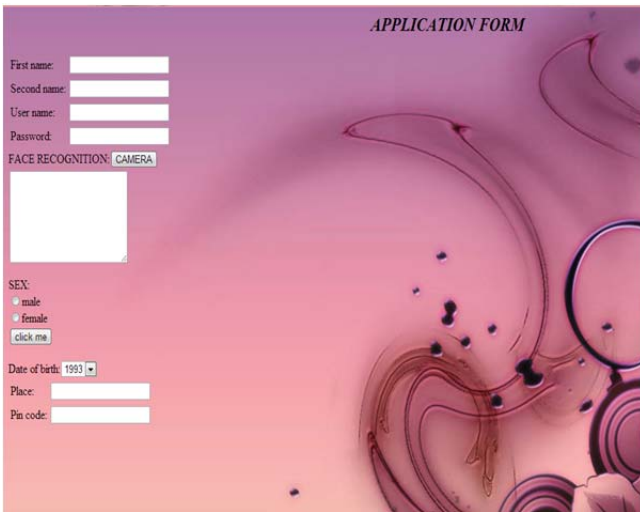
This way is at the time of registering our account only we provide our face recognition and create our account with our sufficient data and save our face recognition also in that account. And while logging into our account it will ask us face recognition that time so that we can use our camera in our system/laptop/etc... and login into our accounts.

When a customer or user visits the web site for registration, user is allowed to fill the registration form by filling all the details. One of the compulsory field is “FACE RECOGNITION”. Like password and security question, user has to upload the image at the time of registration.

Then user is provided with an account by having username and password. During the login process user has to enter password and provide Face recognition, otherwise user will not be allowed for accessing the account.

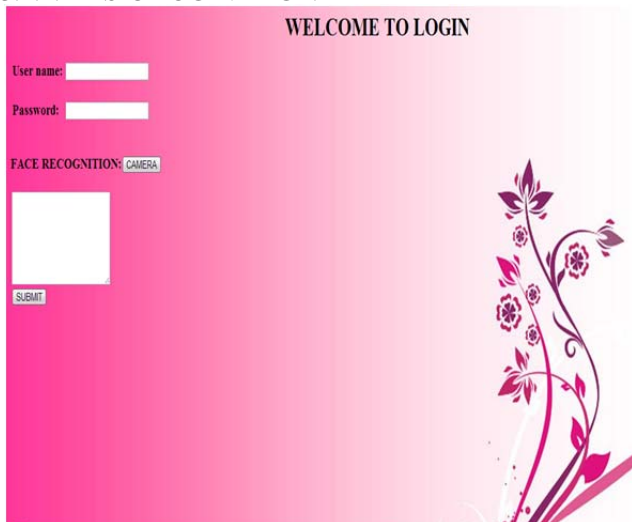
3.1. SAMPLE OUTPUTS:

3.1.1. BASIC APPLICATION FORM:



DIG: Basic application form

3.1.2. BASIC LOGIN PAGE:



DIG: application form for face recognition

3.1.3. THE BASIC LOGIN PAGE:



DIG: Basic login page

4. CONCLUSION:

From our Approach, we conclude that we can provide more security for our accounts by using image as it cannot be hacked by hackers and difficult to hack and its very new to all the users so it plays a very important role in our day-to-day lives. And people can be free from tension and can easily store the data and store it safely in their accounts. So it also gives the people some reliefness and free from tensions and can keep their accounts safe.

REFERENCES:

1. Jyothi chikkara, Ritu Dahiya, Nehgarg, Monika rani "Phishing and anti phishing techniques : a case study" in IJARSSE, may 2013.
2. <http://en.wikipedia.org/wiki/Phishing>.
3. <http://news.netcraft.com/>
4. Gaurav, Mukesh misra , anurag jain"Anti-Phishing technique: review published in IJERA, mar-april 2012.
5. D.Aruna Kumari, Prasamsa, Indra Praveen "Antiphishing solution based on security question and image "ICMP Trivendram , 2010.
6. "Man sentenced for "botnet" attack on hospital," The Mercury News, August 25, 2006
7. Microsoft Security Bulletin MS05 001, January 11, 2005.
8. " Man sentenced for "botnet" attack on hospital," The Mercury News, August 25, 2006

AUTHOR



V.Srinivasarao -Student persuing B.Tech final year in Electronics and computer (ECM) in K L University,worked on projects based on web technologies stream ie, on many database security system and participated in the project expo.