

Securities of online transaction in E-governance

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Abstract: Today all persons are using online transaction. Online transaction helps the persons to transit the data from one place to other place. Online transaction is a safe transaction. Through online account we use the service of online transaction. Online transaction reduces the paper work. E-governance allows the person to facilitate the service of online transaction. Now day's online transaction is widely used in e-governance for submitting the bill or buying and selling the things. In this paper we discuss about the account securities when we paid the e-governance for bill or buying and selling the things then how our account is safe or how we say that this transaction is a best or safe transaction medium between the e-governance and citizens. In this paper we discuss the some securities like history deletion, self account logout; no one can change the amount without the permission of administrator, self receipt generation , message generation when login and logout the account. Give the transaction report through the email, message or receipt.

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1. Introduction

In recent arena all people uses the online transaction. Through online transaction citizen or people transit the money from one place to other place without going anywhere. So, online transaction saves the both time and travelling allowances. Through the online transaction we do the transition from any place to other place and it reduces the paper work. But some times this online transaction is not safe because many hackers hack the account password and changes the amount. So we add the some technology in E-governance that saves the account when we are doing online transaction. We add the technology that if some users forget to logout his account and account is idle before 10 minutes then the account is self logout, after every transaction user receives the receipt, at every account login user receives the login message to the cell phone, and at every account logout user receives the logout message, give the every report related to transaction, login, logout, selling or buying through e-governance come on the users email id. If the user enter some

amount in any transaction like bill payment, buying, selling etc then no one can change this data rather than the administrator of e-governance only the administrator of e-governance have a authentication to change or see the data and the one method is every month payment of tax directly transfer to the government and the after or before transaction citizen receives the permission message and receipt. So after accepting these processes in online transaction in e-governance the security level is up and it make the reliable mode of transaction and we stops the unnecessary account hacking and they make a better relationship between the e-governance and citizens and citizen widely used the online transaction for any type of transaction in e-governance.so when citizens using the online transaction then they easily pay their bills and timely buying and selling the things without doing any paper work and without going any where and it saves the both time and money. So through online transaction citizens directly communicate to the government.

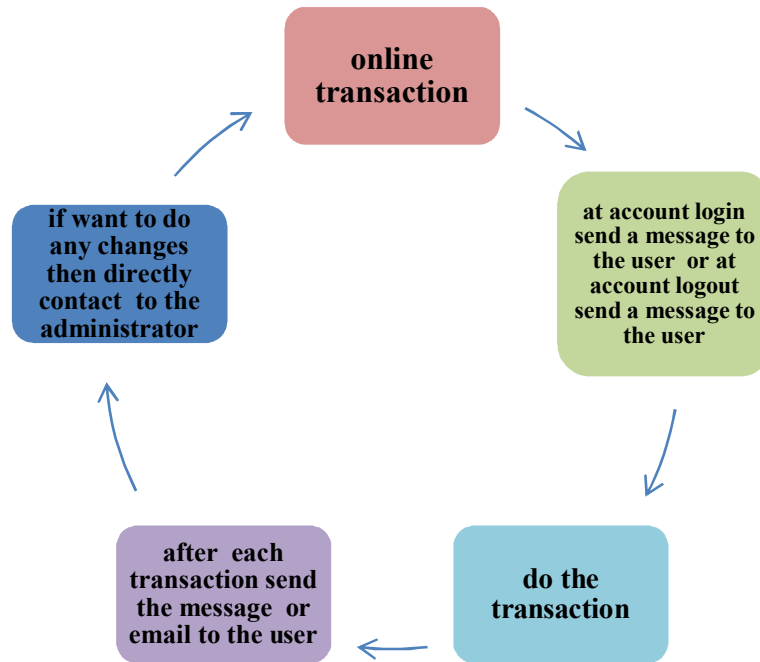


Fig1: Transaction process.

2. Applications of securities of online transaction:

We discuss some applications or technologies that we want to insert or perform in e-governance when we perform online transactions that are given below:

- a) **Login:** At the time of log in user receives the intimating message to the user mobile phone or on email like welcome to the account or you are login. So through this login message citizen know that he is login and he stops the hacking because at every time of account open user receive the login message. If someone or hacker open the citizen or user account then the login intimating message send to the user and user know that some one open his account and they stop the hacking through directly communicate to the administrator.

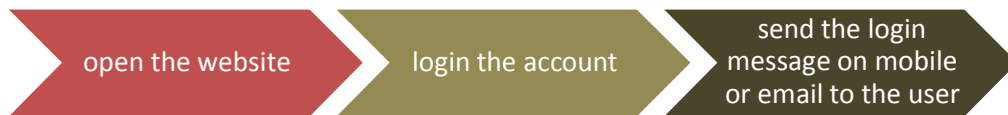


Fig2: Login Process

- b) **Logout:** At the time of log out user also receives the intimating message to the user mobile phone or on email like thank you sir for using this service. So after each log out generating the intimating message and send to the user mobile phone or on e-mail. So the user knows that which time he log out his account.

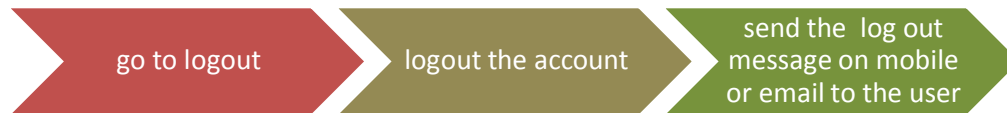


Fig 3: Logout Process

- c) **Self history deletion:** In this process history is deleted after some time like Gmail we delete the our mail and that mail go in the trash and trash clear the mails in some days like we think that like Gmail process users do any transaction, processing, business proposal etc whatever history will be deleted itself in some time like in some minutes and in some 2 or days. So, the advantage of this is no one can see that citizen or user what did and what paper or transaction he did.

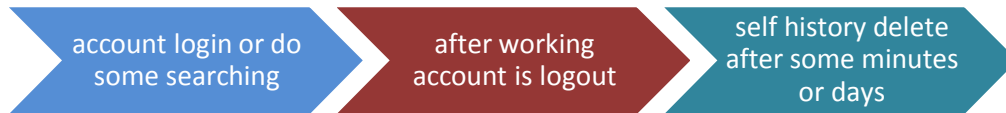


Fig 4: Self history deletion process

- d) **Self account logout:** Through this process account is itself logout means if user forget to logout the account for various reasons like power cut, direct close the window, busy in other work etc and account is idle means no processing is going on then it check for 5 minutes if no processing is done then the account is logout itself and logout message send to the users mobile phone. So the advantage is if user forget the account logout for various reasons like power cut, direct close the window then it logout itself so no one can hack the account details.

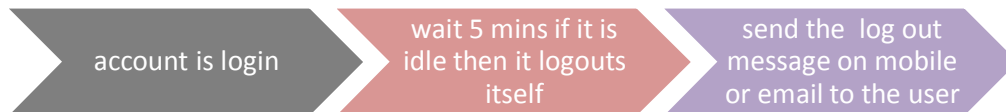


Fig 5: Self account logout process

- e) **Self receipt generation:** Every time when user do any transaction like he gave the payment or take the payment then the receipt is generated itself and this receipt is going on digital form means on user mobile phone or on email through this user always know that which time how much transition he did.

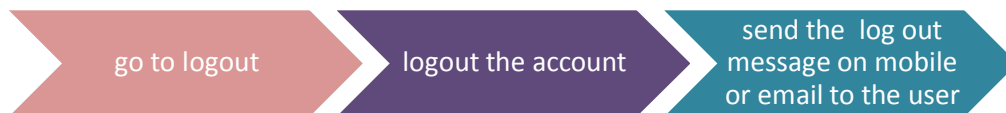


Fig 6: Self receipt generation process.

- f) **Self payment:** Some times user forget the submitting the taxes or bills then we generate the new process self payment at that time at last date message send to user mobile phone with some code like your bill or tax last date is this if you want to self payment with your account then send the message to this code or number if user send the message then the self receipt is generated and this receipt is send to the user mobile phone number. So through this process user saves his time and submitting his bill on time.

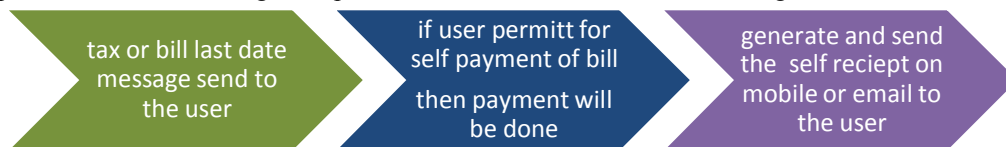


Fig 7: Self Payment Process

- g) **Administrator Permission:** If user enter some amount and it press save then he will no right to change the data. Then only administrator has a right of any changes at that time user directly contacted to the administrator for changing the amount or data. So through this process no hacker changes the data in processing between any deals.

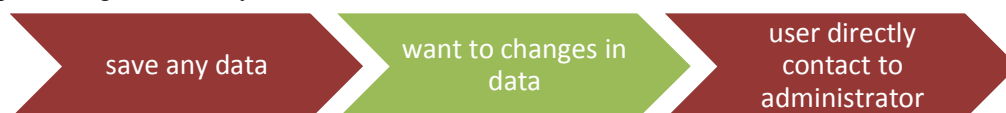


Fig 8: Administrator permission process

3. Advantages:

- a) Increase security level.
- b) Make the strong relationship between citizens and e-governance.
- c) With the help of login message user know that his account is open.
- d) It's a user friendly process. Makes the transaction easier.
- e) Saves the both time and money.
- f) Every processing related to account knows users at all time.
- g) Billing or tax payment on time.
- h) Reduce hacking.

4. Disadvantages:

- a) If any problem comes in the system between any transactions then important data wipe out from the database.
- b) Simplest disturbance in the system wastes both time and money.
- c) Some times in online process buyers or sellers misses some important rules, regulations and data.
- d) In online transaction all the data is worldwide so the more chances of hacking the account.
- e) No privacy of account.

5. Conclusion:

All peoples know about the online transaction. Now time it is important or widely using technology. In this paper we are adding some technology that

trying to stop hacking. Through this process users have always have a full detail related about his account like how many and which time he opens the account, close the account. Which time how much transaction he did etc. This process is a very beneficiary process for those who always do or did the transaction through online transaction because if the communication or transaction medium is not strong then no one uses the new technologies. So In this paper we increase the security level by adding some processes that makes the strong binding between the citizens that uses the online transaction facility and e-governance.

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