







From Table 2 it can be observed that the proposed scheme is the only scheme that considers trust from all the aspects. It considers the experience of the user which is a real life experience outside OSN. Also the system in turn calculates the interaction between a friend and user and also checks how much the user is active. With all this, a consolidated trust value is calculated. A user is able to input his experience about a friend during adding him as a friend at the time of accepting a friend request. The user activity can be noted from time to time to measure how active the user is. The next aspect is about giving the access control based on the trust value calculated for every friend of the user. Whenever a data is uploaded the user is compelled to set a security level for the data. If the security level is high it is viewed by the trusted people itself. This means that it is viewed by only those people who have high trust value.

There is always a comparison between the security level and the trust that every friend has with the user. Hence, the direct variation is established between the trust value and access to the secured data. After the comparison between these values gives the decision regarding the access or denial of access to the user. Hence, the trust based access control can be achieved

## 5. Conclusion and Future Work

Ensuring the security and data confidentiality has become vital as the number of people is becoming active on OSN and also the content is growing at an exponential rate. So the mechanisms to secure the data need to be imposed in an effective manner. The current OSN trends do not provide much fine grained access policies to be defined. Also OSNs like Facebook define extreme policies for access control like visible to public, visible to only me. Hence, more efficient policies using trust can prove to be more efficient. The proposed work considers the user opinion about the friend in terms of his real life experience and also on the interaction between the friend and the user. The third metric is the context information that tells how much active the user is on OSN.

The future work deals with detailing the concepts about the metrics and calculating the effect of each on the final trust value. Also developing the OSN application which applies the concept of trust based access in OSN is the future work that can be done

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