

## MIT SCHOOL OF COMPUTING

Class: TY-CSF-1

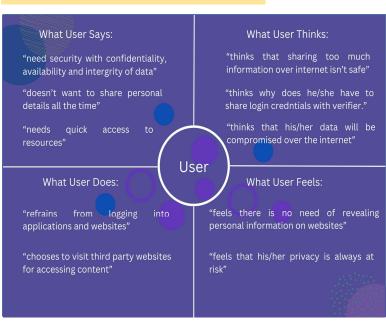
**Group Id: 6** 

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING Zero Knowledge Proof Authentication

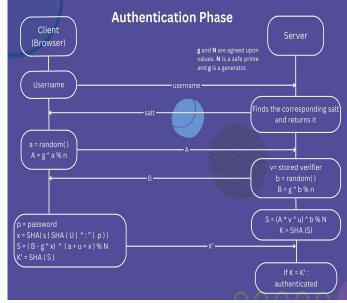
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## **Faculty Guide:**

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Problem Statement:

Traditional authentication methods, such as passwords and biometrics, expose sensitive information, making them vulnerable to attacks. Zero Knowledge Proof (ZKP) offers a secure alternative by allowing a user to prove knowledge of a secret without revealing the secret itself. This project aims to develop an authentication system using ZKP, ensuring that no sensitive data is transmitted during the authentication process.

Proposed Solution:

As a solution we will develop a additional filter to counter the problem of interoperability. One of the major problems with this method is that different systems are not compatible with each other so we will add one extra layer where we will develop a solution to implement ZKP as a mediator between different systems.

Scope:

This method can be implemented in college libraries and ERP system to enhance security and consider privacy of students.