Team name : Brainy Fools

Team Feedback Report 1

1. What theme have you decided for your project? Ans : Digital society

2. What is your problem statement?

Ans : Digital identity management. We have developed a system for managing digital identities and access control

3. What is the scope of your project?

Ans : Digital identity management is an essential aspect of modern technology infrastructure. It involves managing and verifying the identities of users who access digital resources such as applications, data, and services. Access control is a critical component of digital identity management, as it determines what resources users can access based on their identities and permissions.

We can use this system in offices to provide access control based on position.

4. What data structure have you decided to use and why?

Ans : i) User data such as names, email addresses, phone numbers, and other identifying information are stored in a hash map. Each user is assigned a unique key based on their email address.

ii) Authentication credentials such as passwords is stored in a separate hash map. Each user's authentication credentials are linked to their user data using the same unique key.

iii) Permissions is managed using a linked list. Each resource or service has a linked list of users who have permission to access it. When a user logs in and their identity is verified, the system

checks the linked list of resources they have permission to access.

iv) Access control is implemented using a combination of the hash maps and linked lists. When a user attempts to access a resource or service, the system verifies their identity using the user data hash map and authentication credential hash map. If their identity is confirmed and they have permission to access the resource, the system grants them access.

5. Did you think of any other data structures with similar functionality required for your project? Why did you not choose them instead?
   Ans : We can also use hash table to store the data but we have used hashmap instead as it's faster and uses less memory than Hashtable.

6. Have you started working on your project and what all did you accomplish in the past 2 weeks?
   Ans : We finalized the topic and have created a flow of features

7. Did you face any problems in these 15 days and were you able to resolve them?

Ans : Yes , we are little confused about which data structure should we use to increase the efficiency of the code but finally concluded with the above data structures.