**class diagram**

View Key Request and Generate ,View Transactions

Owner Name,FileName,Digital Sign, Secret Key,File Rank,Date.

View All Cloud File,View All Transaction, View All Attackers, View Results,View Time Delay Results, View Throughput Results.

Owner Name,FileName,Digital Sign, Secret Key,File Rank,Date.

CSP

Members

Members

Members

Methods

Methods

Data owner ownerowner

Methods

Proxy

View Data Owners, View Data Users, View Key Request from Data Owner and Provide,View Transactions.

Owner Name,FileName,Digital Sign, Secret Key,File Rank,Date.

KGC

End user

Members

Methods

Register and Login,Search Data,Request Sk,Download.

Owner Name,FileName,Digital Sign, Secret Key,File Rank,Date.

**Upload File, View All Uploaded File, Check Remote Data Integrity**

Owner Name,FileName,Digital Sign, Secret Key,File Rank,Date.