**Data owner**

**Cloud Servers (Cs1,Cs2,CS3,CS4 )**

Authorise\_user(), View\_Owner\_file(), View\_registered\_users()  
View\_Transfered\_Files(),View\_VMs

Uname, Fname, Secret\_key, MAC,Transfered\_files

View\_cloud\_details(), Register(), Login(), TransferRequest\_File(), Browse(), Upload(),Verify(), Delete()  
Check\_VMs(),

Cloud\_name, Migration, Amount, File\_Name,Owner\_name,rank,Date\_Time,VMS\_name

Methods

Methods

Members

Members

**Attacker**

Members

Methods

View\_file() , Modify\_file ()

File\_name,

Members

Methods

Submit (), Reset ()

Name, Password, Confirm\_PW, City, Address,cloud\_serevr, Payment, Card\_number, Amount, Cloud\_server\_IP,

**Data Owner Register**

**Data Owner Login**

**Proxy Server**

Methods

Members

Login ()

Data\_Owner\_name, Password, Cloud\_server,

Receive\_file(), send\_file(), View\_Cloud\_AccessLog(), View\_Cloud\_trans(), View\_EndUsers()

User\_name, Cloud\_name, File\_name, Secret\_key, MAC, Password,

Methods

Members

**End User**

Methods

Register(), Requestfile(),

Receive\_file()

User\_name, Password, File\_name, Secret\_key,

Members