**Architecture Diagram**

1. View data owners and authorize.
2. View End users and authorize.
3. View all data owner file details
4. Add Memory and cost details and view the same.
5. View all file and memory transaction of each and every data owner.
6. View download or search req and give permission
7. View all owner and user transactions(Upload and download)
8. View file attackers
9. Find File rank results in chart

**Data Owner**

**1. Register and Login Data owners   
2.Purchase cloud by paying cost and view purchased details  
2.Browse file, Split into 4 blocks and enc each block and Upload.  
3. View all Uploaded Files with digital sign  
4.View Deduplication file from data deduplication and confirm your deletion or share with other data owner  
5. View your files and Update Block contents  
6. View your files and Delete**

**Login**

**End User**

Register and Login

**Data Deduplicator**

1. **Req Search or download permission from cloud**
2. **View response for download or search**
3. **Search file and Download the file**
4. **View all Data owner files with shared or deduplication verification details**
5. **View users dedulication tried and uploaded details**
6. **View saved memory of the Data Owner after sharing file from other user.**
7. **Find CPU Speed while storing file**