**Architecture Diagram**

**Data Owner**

Login,  
Attackers,  
View Files,  
View Service Recommendations By Blockchain,  
Authorize User,  
Authorize Owner,  
Search Requests,  
Download Requests,  
View File Rank Results,  
View Time Delay Results,  
View Throughput Results.

Register and Login,

View Files,

Upload File,

Update File.

1. Req and Res File
2. Access Files

**End User**

Register and Login,  
View Service Recommendations,  
Search,  
Download,  
View Files,  
Search Request,  
Download Request.