**MODULES:**

**DATA OWNER:**

In this module, we develop the Customer features functionalities. Customer first register his/her details and login. Customer can outsource sensitive and valuable data to cloud by encrypting data and splitting data in to multiple parts.

Data owner has option to modify data which is uploaded to cloud. In this process when user updates data stored in cloud1 with data which is already available in cloud2 then total data will be visible in cloud1 only. In order to solve this problem owner will check data similarity using minhash and data matching percentage is calculated and refer to user where to upload data.

**METADATA SERVER :**

**Metadata servers** are used to store the metadata database about the information of files, CSPs and users,which usually are structured data representing the whole cloud file system.

**CLOUD SERVICE PROVIDER:**

In this module, we design the Cloud functionalities. The Cloud entity can view all customer details, file upload details and customer file download details. In this module, we use the DriveHQ Cloud Service API for the Cloud Integration and develop the project.

We consider a system of s storage servers S1, . . . , Ss, which stores part of data uploaded by data owner. We assume that each server appropriately authenticates user. For simplicity and without loss of generality, we focus on the read/update storage abstraction of which exports two operations: