The Design

The user will have to login in to use any of the services, a prepared statement in the RDSService class will query for the typed in username & password and give back an ID. if the user is registered. The User class is assigned an ID and a S3 connection to the bucket of my choice. The user's ID will for the duration of being logged in be used to decide which files that user can access.

The user will never be directly working with any files inside the S3bucket, only files that are in the folder of that particular user. It is easy to manage the users files that way and it is also easy for admin to see which file belongs to which user.

How my many user will store their files on the same S3 bucket?
- Each user have an unique ID when registered (stored in db). I use that ID to create a folder for that user. The folder is created on first 'put' command.

How my many users are sure they will download the right file?
if two files are named the same, it is not a problem since they will reside in different folder. Hence there will be only one correct download for a particular file name.

How I will know which file belongs to which user as admin?
By looking at the RDS table and ID, I can see which files belongs to which user.

How will I ensure that each user only can see the user's file only.
By only looping over the folder given to that user in that bucket.