

# Regression and Incremental Testing

## Encryption x2

## Module Description

**Uploading files:** This module allows users to specify the title, comments, etc and choose the file they would like to upload.

Inputs: Title, comments, date, file, etc

Output: File will be seen on the main hub and if there are no error messages that means it was successful.

**Deleting files:** This module allows users to delete files seen on their main hub page

Inputs: User presses the delete button next to the file

Output: The file will no longer be seen on the main hub page

**Searching for files:** This module allows users to search their files by title

Input: Title

Outputs: List of files that match the entered title

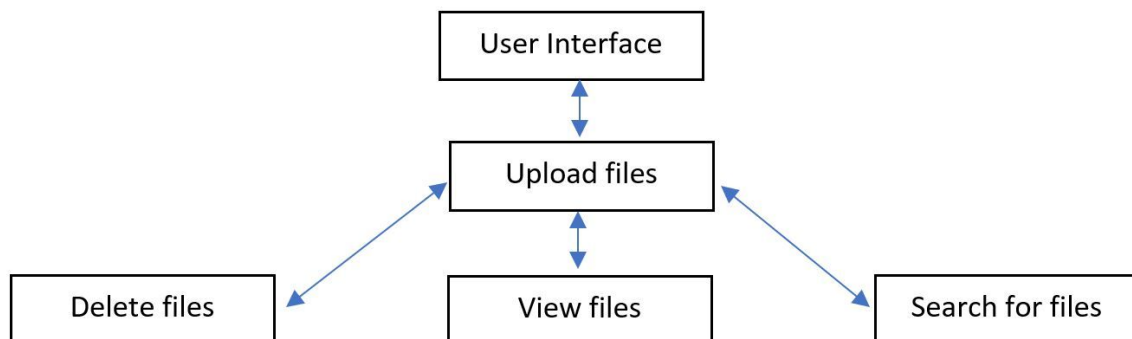
View files uploaded: This module lets users see what files they have uploaded on their main hub page

Inputs: Logging in to access their main hub page

Output: File names appear on the main hub page

## Incremental Testing Technique

Our testing approach was to do top-down so the modules at the top are tested first while stubs are created and used for the lower level modules since are not yet integrated. As a result, when we start testing the lower level modules we will not have to create drivers since they have already been tested and implemented.



Product	Encryption x2
Module	Uploading files
Author	Development Team
Date	2/15/18

Defect #	Description	Severity	How Corrected
1	The inputs for uploading a file such as title, when to delete, and timeout option are not enforced	3	Will be corrected by requiring them to fill in all the blanks, similarly to the creating account story. An error notification will pop up
2	Access keys and URLs are not encrypted, so anyone with access to the database could gain access to the files.	5	We still need to encrypt access keys to protect the users files further

3	We were not verifying that the file uploaded is one of the supported file types.	3	A file extension check will need to be implemented in our code before accepting the file and uploading to our AWS cloud.
4	User was able to upload two different files with the same name	1	Allow user to upload two files with the same file name
5	We are not checking to make sure that our file does not exceed our max file size limit of 50 MB.		A memory check is going to be implemented as well when we are checking for file types. An error notification appears if file is too big

Product	Encryption x2
Module	Deleting files
Author	Development Team
Date	2/15/18

Defect #	Description	Severity	How Corrected
1	File is deleted from the front end, but not the database or cloud	2	We will query into the database and delete, as well as delete it in our cloud storage

Product	Encryption x2
Module	Viewing files
Author	Development Team
Date	2/15/18

Defect #	Description	Severity	How Corrected
1	Users are viewing all of the files in the cloud, as opposed to only being able to view their own	5	Ensure that the files belong to the user before they are able to view the file, by checking the file's owner in our database

Product	Encryption x2
Module	Searching for files
Author	Development Team
Date	2/15/18

Defect #	Description	Severity	How Corrected
1	Searches are case sensitive, when they should not be	2	We will parse the searched string and the title both into lowercase in order to match them