

# AWS S3 storage documentation

## Purpose:

The purpose of the code is to be able to upload different files to an AWS S3 bucket for storage. Users are able to upload multiple files at the same time. In AWS an user with permission to upload files to the bucket was created. This user's details and the details of the bucket is stored in a .env file. The code retrieves the details to get access to the bucket to actually upload files. Later the code will be implemented to store the assignments our users upload. All uploads are assigned a unique code to ensure they are all uniquely identifiable, this is done by using uuid. There is also a size limit set on the files that can be uploaded.

## Requires/utilizes:

- Node.js - JavaScript runtime environment.
- Npm - package manager.
- Express framework - routing and server management.
- Multer library - Handles file uploads.
- Nodemon – Automatically restarts server.
- UUID library – Creates unique file names.
- Dotenv – Handles environment variables (such as the details stored in the .env file).
- Aws-sdk – Interacts with AWS S3.
- Postman – To test file uploads.

## Error handling:

- File size limit is set
- File type validation

## Testing:

- Postman used alongside an Express server to ensure files are successfully uploaded and that the error handling works.

Environments variables (.env file):

This file is used to securely store information needed to access the AWS S3 Bucket. It needs to include the following variables:

- “AWS\_ACCESS\_KEY\_ID” - AWS access key
- “AWS\_SECRET\_ACCESS\_KEY” - AWS secret access key
- “AWS\_BUCKET\_NAME” - AWS Bucket name
- “AWS\_REGION” - AWS Bucket region