SOFT8023 – Assignment 1

**Due:** 23rd October @ 23:59

# Overview

See the Lab 1 document for the bulk of the instructions for this first project. To summarise, the project needs:

* A front-end GUI to list files – you need a way to indicate that there are playable files locally and remote files that are available for download.
* Use the FileMonitor class to download an available file (make the FileMonitor a Singleton).
* Use the FileMonitor class to notify an observer (in your GUI) that the list of files has changed (make the FileMonitor an Observable class).
* Add functionality to upload a file to the shared folder (e.g. extend the folder monitor interface).
* Add threading where appropriate in the application.

Hints have been provided, including DataInputStream (see Blackboard). Just like you can download using DataInputStream, so you can upload using DataOutputStream. Eventually in the distributed version of this application you will have input to output and output to input streams.

## Marking

See the rubric on Blackboard for the breakdown on marks and what will do well or not so well under each category.

## Submitting

There is an e-assignment under Assessments in Blackboard. Upload your zipped project.

## Penalties

As per standard examination regulations (find via mycit.ie), up to 1 week late means 10% of available marks are lost (e.g. You get 32/50, you end up with 27/50). Up to 2 weeks late means 20% of available marks are lost (e.g. you score 32/50, you end up with 22/50).