

## LIA Prototype Implementation

The implementation will be evaluated as part of the Learning Integration Assessment, as described in the course outline:

### LIA Prototype implementation (14%)

- Accurate analysis of client requests and requirements (2%)
- Accurate analysis of the features of the computer equipment and applications (2%)
- Choice of application development standards, methods, and best practices (2%)
- Assessment of the software and hardware components to be used (2%)
- Appropriateness of the design, solution, and implementation techniques (2%)
- Compliance with application development standards, methods, and best practices (2%)
- Accurate drafting of unit, integration, functional, or acceptance test plans (2%)

If you are not present for the demonstrations scheduled for your team and for the other teams in your section, you will receive a mark of 0 for the implementation.

The instructor will attempt to use the prototype, posing questions to each member of the team, to verify their understanding of both the implementation and the various design decisions that were taken to produce the implementation. This will be done either from a USB drive, a downloaded .zip file (using, for example, WeTransfer.com), a web site, or a shared screen in a Teams meeting.

Use the MVC architecture for your implementation.

Show your file structure to the instructor and make the source code/web site available to the instructor either on a USB drive, or in a downloadable format so that a copy can be transferred to the instructor.

The implementation must:

- Have at least five records per table installed in the database.
- Have at least five screens as part of the user interface.
- Perform input error checking.
- Conform to well-established UI guidelines.
- Allow the user to
  - Search for an item, or a group of items, in the database.
  - Add data to the database.
  - Retrieve data from the database and display it on screen and print it directly to a printer.
  - Change or update data in the database.
  - Delete data in the database.
  - Produce at least one nicely formatted summary report of the database contents.

## **Work Cited**

*Information silo.* (n.d.). Retrieved December 3, 2013, from Wikipedia:  
[http://en.wikipedia.org/wiki/Information\\_silo](http://en.wikipedia.org/wiki/Information_silo)