

# CA400 Standard Project

## Project Description

You are required to implement an interactive Sudoku system. At increasing levels of difficulty, this system could do the following:

1. Provide an interface for users to enter numbers into a Sudoku grid. Your system should check each of these numbers to determine whether or not they can be validly placed in the specified square.
2. Provide a solving facility within your system which attempts to solve the Sudoku puzzle from its current state.
3. Automatically generate Sudoku puzzles which are solvable.
4. Provide a grading facility within your system which grades the level of difficulty of given puzzles.

Obviously, some of the above is quite difficult, but you will be awarded marks based on the degree of difficulty of the system which you have implemented.

You may choose any development environment and platform. However, your project must be demonstrated in a School of Computing lab, either on a standard lab machine or your own machine.

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