

UML Diagram Multipurpose Desktop

A “mini desktop”:

- Mini desktop class
 - Display - displays available applications
 - Select - Selects between applications and gives confirmation

Applications:

- Tic tac toe class
 - The typical 3x3 game (not very interesting)
 - Display
 - Rules - Returns a summary of the game
 - PlaceO/X - places an X or an O based on player input
 - Check3 - checks for 3 consecutive Xs or Os
 - 2 player mode
 - single player mode
 - An algorithm will be generated using the above methods
 - AI move - Randomly places an O in proximity to an X.
 - Ultimate tic tac toe (A 9x9 game with restrictions on moves)
 - Display
 - Rules - Returns a summary of the game
 - PlaceO/X - places an X or an O based on player input
 - Check3 - checks for 3 consecutive Xs or Os
 - NextMove - determines the 3x3 square you move to based on previous move of your opponent
 - Available - checks whether a 3x3 square in the 9x9 board is full
 - 2 player mode
 - Potentially a single player mode if we have time
- Text editor
- Calculator class
 - Create a calculator that can perform basic operations (+, -, *, /)
 - Can factor a given integer
 - Can give you the nth special number (i.e. Fibonacci)
- Letter Crush class
 - A variation of Candy Crush, except with letters
 - Check3 - checks for 3 consecutive letters
 - Swap - swap two adjacent letters iff they made a 3 in a row
 - Redo - If there are no swaps that would obtain a 3 in a row, randomize the field

*All applications have the ability to go back to the home screen