**Console Apps Solutions Ltd.**

Detailed Function Specification

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| Name of Function:  **menu** |
| Brief Description (Purpose of Function):  **The entry point of the application, continually providing the user the opportunity to select an option from a number of given choices provided by the application** |
| Inputs to the Function:  **None required** |
| Outputs from the Function:  **None passed** |
| Algorithm / PseudoEnglish statements:  (a detailed description of the actions required to fulfil the role of this function)  **CONTINUE TO**  **display to screen the menu-driven interface as shown:**  **Welcome to the EPOS Options Ltd.**  **Network Administration & Statistics Department’s**  **Pilot ‘One Stop Shop’ interface**  **Please select one of the following menu options:**  **Option 1: To generate a personal username**  **Option 2: To calculate a number’s factorial**  **Option 3: To exit from the application**  **- UNTIL**  **‘3’ is provided by the user; whereupon control is to be returned to the operating system**  **Get the user input from the keyboard**    **Check the user input entered**  **Should the user input NOT be a number within the range 1 to 3, it will be considered to be INVALID and the following message is to be displayed as a result:**  **“You entered an invalid menu choice, only the options ‘1’, ’2’ and**  **‘3’ are allowed, please press return and try again”**  **and control is to be returned to the above menu**  **When a valid menu option is provided, the user will be able to perform the associated task and will be prompted to return to the above menu when the task has been completed** |
| Author: **Juan Alvarez** Date: **09/11/2017** |