The ornamental design for a display screen with animated graphical user interface, as shown and described.

FIG. 1 is the first image in a sequence for a display screen with animated graphical user interface showing my new design; FIG. 2 is the second image thereof; FIG. 3 is the third image thereof; FIG. 4 is the fourth image thereof; and, FIG. 5 is the fifth image thereof.

The appearance of the animated user interface sequentially transitions between the images shown in FIGS. 1-5. The process or period in which one image transitions to another forms no part of the claimed design. The broken line showing of the text, the flower, the graphic elements, and display screen is for environmental purposes only and forms no part of the claimed design.

1 Claim, 5 Drawing Sheets