User Guide for Team Goldfish's Calculator

This guide will help new users navigate and use the Team_Goldfish calculator. When a user opens the app, they will be greeted with 4 options, a Basic Calculator (1), a Tip Calculator (2), a Scientific Calculator (3), and a Standard Conversions Calculator (4). The number next to each calculator will be the index for their respective section in this guide.
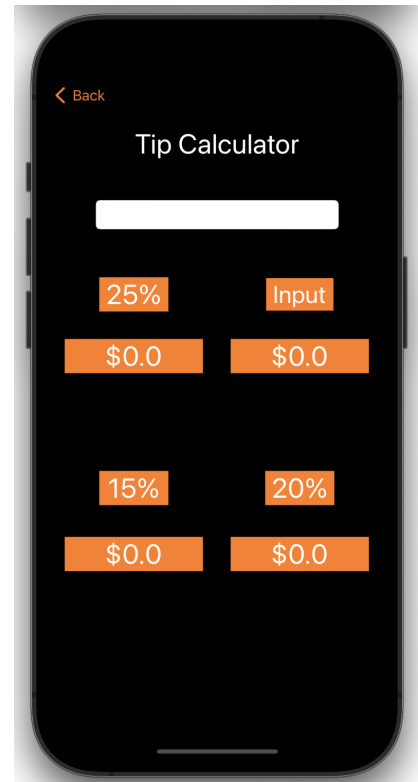
1. The Basic Calculator

The basic calculator supports only basic math calculations like addition, subtraction, multiplication, and division. To use it, just tap on a number or operation symbol, and it will be added to the formula bar at the top. You can then press the '=' button to calculate the formula you typed in. The result will be displayed in the formula bar. The 'Clear' button will clear both the formula bar and the result bar. If an incorrect formula is entered the output will display "nan".

2. The Tip Calculator

The tip calculator is a simple conversion tool for finding the percentages of different amounts of money. The text input at the top allows the user to enter specified dollar amounts. When return is pressed the percentages of the input will be calculated and displayed under each respective percentage label.

3. The Scientific Calculator

The scientific calculator works much the same as the basic calculator, except with a few extra features added. The features added are trigonometric functions, logarithmic functions, a square root function, an exponent operator, parenthesis, and pi. To use it, just tap on a number or operation symbol, and it will be added to the formula bar at the top. You can then press the '=' button to calculate the formula you typed in. The result will be displayed in the formula bar. The 'Clear' button will clear both the formula bar and the result bar. If an incorrect formula is entered the output will display "nan".

4. The Standard Conversions Calculator

The standard conversions calculator allows users to enter quantities of specified units and convert them to other units. This calculator supports conversions for Length, Speed, Area, Time, Volume, and Weight. When a user taps the "Standard Conversions" button in the main menu it will take them to the screen seen on the right. When the user taps any of these options, it will take them to a screen like the screen seen in the image below. The user can then enter a quantity and specify the units the quantity is in. Once return is pressed on either of the inputs, the conversions will be output in their respective output label. If the user does not enter a quantity, and presses return, all of the output labels will be set to "0.0". If a quantity is given but no unit is specified, the unit will result in base units such as meters, liters, seconds or grams.