DApp Overview & Purpose

Clicker Cloud

My app allows an admin to set a question and have people vote to agree or disagree with the question, reset the votes, and change the question.
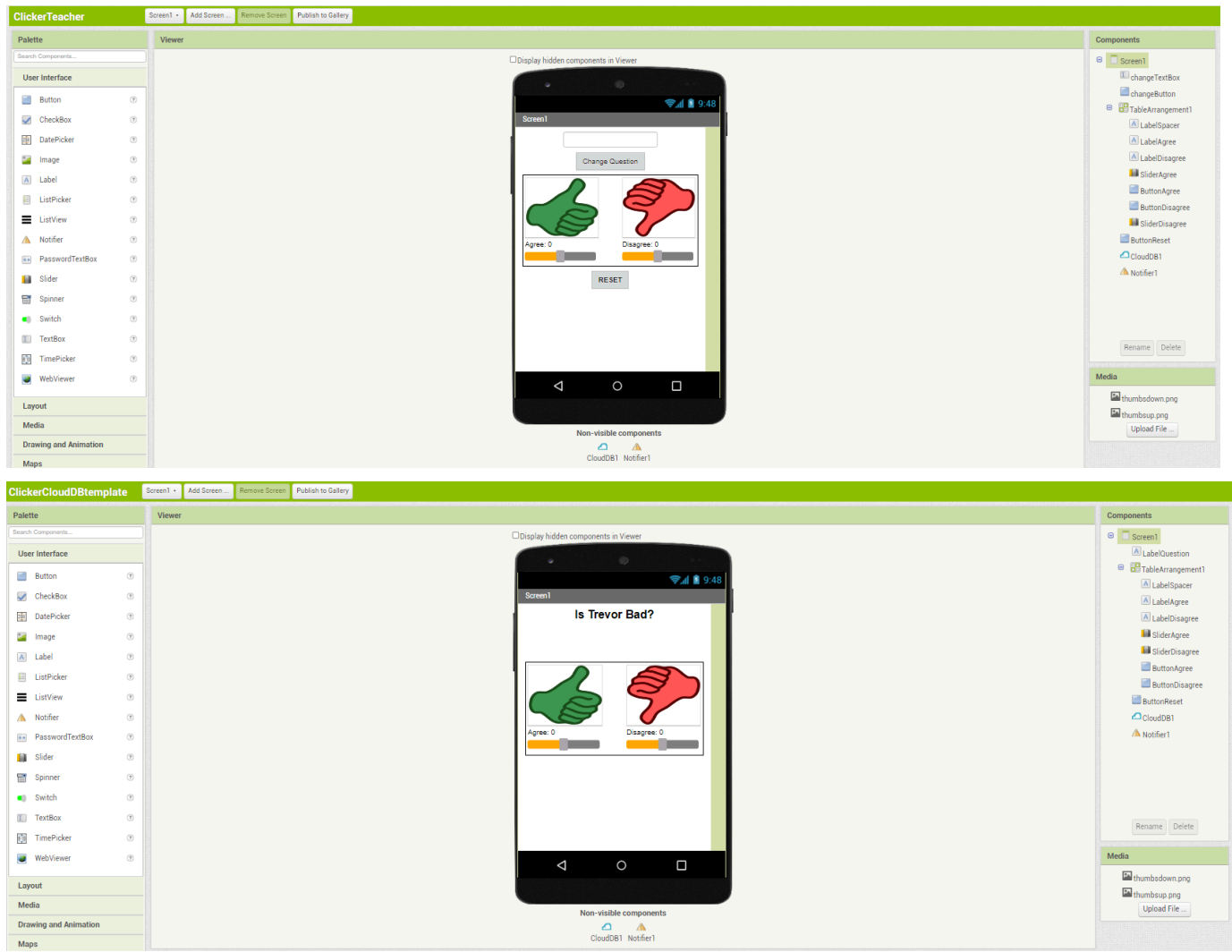

Viewer & Components

Copy and paste the Viewer and Components of your app here

Design & Enhancements:

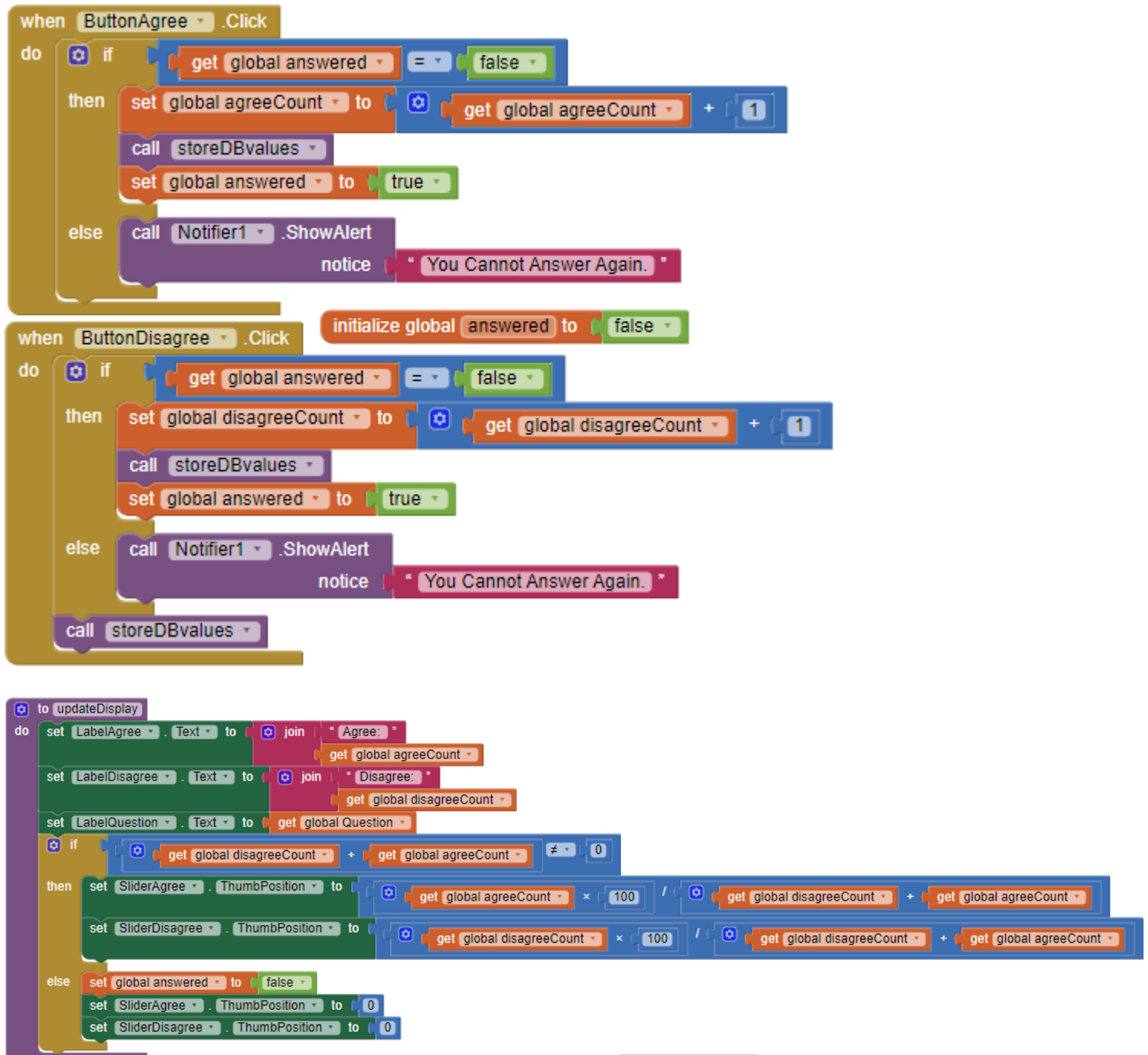Be sure to provide **screenshots** along with your **explanations** for each of the **enhancements** that you made.

WHEN USED: **procedure updateDisplay**

APP: **Both teacher and student version**

WHAT THE ENHANCEMENT IS: **Create a Bar Chart Using the Thumb Switches**

PURPOSE: **Inside the if statement it will set the sliders to agreeCount x 100 divided by the disagreeCount and agreeCount in order to get the bar to work like percentages. The If statement will only run this line of code if the count doesn't equal 0.**

WHEN USED: **when ButtonDisagree.Click, when ButtonAgree.Click, global variable answered procedure updateDisplay**

APP: **Both teacher and student version**

WHAT THE ENHANCEMENT IS: **Allow Users to Vote Only Once**

PURPOSE: **The variable is instantly set to false when the code is first run. What ButtonDisagree.Click and ButtonAgree.Click do is check to make sure that the variable is still set to false, and if it is they can answer. When the code is run to answer it will set the answered variable to true so it will not make it into the if statement and they will instead get a notifier telling them they cannot answer again.**

Procedure updateDisplay's if statement was also altered to have an else statement so that when the counts did equal 0 it would change the variable back to false because them being zero means that the scores were reset and they can answer again. This helps so that the teacher can technically change this variable from their device without having access to the variable itself.

STUDENT VERSION CODE:

TEACHER VERSION CODE:

WHEN USED: procedure getDBvalues, procedure storeDBvalues

APP: Both apps - have different code labeled above.

WHAT THE ENHANCEMENT IS: Build a Teacher Version of the App

PURPOSE: In the student app the most has changed with a new if statement within the gotData procedure. This if statement is used by the student's new code for procedure getDBvalues where it is using cloudDB to obtain the new data stored under the tag "question". This new data being added is being added from the teacher's code in procedure storeDBvalues where it is storing the textboxes text under the tag "question". The student's if statement then takes that value stored under the "question" tag and sets it to their question at the top of their screen.

Note: *The above section may repeat based upon how many large Event Handlers you have.*

Complete Code

- Put the code screenshots in the following order
  - Variables

```
initialize global Question to " "
initialize global disagreeCount to 0
initialize global answered to false
initialize global agreeCount to 0
```

  - Procedures

```
to updateDisplay
do  set LabelAgree . Text to join " Agree: "
                                     get global agreeCount
    set LabelDisagree . Text to join " Disagree: "
                                        get global disagreeCount
    if    get global disagreeCount + get global agreeCount ≠ 0
    then  set SliderAgree . ThumbPosition to get global agreeCount × 100 / get global disagreeCount + get global agreeCount
          set SliderDisagree . ThumbPosition to get global disagreeCount × 100 / get global disagreeCount + get global agreeCount
```

```
to storeDBvalues
do  call CloudDB1 .StoreValue
         tag " agree "
         valueToStore get global agreeCount
    call CloudDB1 .StoreValue
         tag " disagree "
         valueToStore get global disagreeCount
    call CloudDB1 .StoreValue
         tag " question "
         valueToStore changeTextBox . Text
```

```
to gotData tag value
do  if    get tag = " agree "
    then  set global agreeCount to get value
          if    not is number? get value
          then  set global agreeCount to 0
    if    get tag = " disagree "
    then  set global disagreeCount to get value
          if    not is number? get value
          then  set global disagreeCount to 0
    call updateDisplay
```

```
to getDBvalues
do  call CloudDB1 .GetValue
         tag " agree "
         valueIfTagNotThere 0
    call CloudDB1 .GetValue
         tag " disagree "
         valueIfTagNotThere 0
```

  - Event handlers

```
when ButtonReset .Click
do  set global agreeCount to 0
    set global disagreeCount to 0
    set SliderAgree . ThumbPosition to 0
    set SliderDisagree . ThumbPosition to 0
    set global answered to false
    call storeDBvalues

when ButtonAgree .Click
do  if     get global answered = false
    then   set global agreeCount to   get global agreeCount + 1
           call storeDBvalues
           set global answered to true
    else   call Notifier1 .ShowAlert
                   notice " You Cannot Answer Again. "

when Screen1 .Initialize
do  call getDBvalues

when CloudDB1 .DataChanged
tag   value
do  call gotData
        tag   get tag
        value get value

when CloudDB1 .CloudDBError
message
do  call Notifier1 .ShowAlert
            notice get message

when ButtonDisagree .Click
do  if     get global answered = false
    then   set global disagreeCount to   get global disagreeCount + 1
           call storeDBvalues
           set global answered to true
    else   call Notifier1 .ShowAlert
                   notice " You Cannot Answer Again. "
    call storeDBvalues

when changeButton .Click
do  set global Question to changeTextBox . Text
    call storeDBvalues

when CloudDB1 .GotValue
tag   value
do  call gotData
        tag   get tag
        value get value
```