

# **EXPLANATION OF MAJOR PROJECT:**

**1. Go to Thingspeak.**

**2. Create a Channel and then create two fields (one for positive response and 2<sup>nd</sup> for negative response).**

**3. Add two numeric display widgets(one for counting positive responses and 2<sup>nd</sup> for counting negative responses).**

**4. Go to MIT App Inventor.**

**5. In design view, take two buttons for the positive and negative responses, take four web viewer ( two for fields and two for the widgets.), take a clock and take a web.**

**6. Copy the positive field URL, negative field URL, positive widget URL and negative field URL from thingspeak and paste it to the home URL of the four different web viewer and set the clock to 1000ms or 10s.**

**7. Go to blocks in the MIT App inventor for the coding.**

**8. We take two global initialization(value1=1 and value2=1) for two different buttons.**

**9. When positive/negative button is clicked , the clock (which is set to 1000 ms) gets started, the web URL is set to the API key link with “field=” and “value 1/value2” from initialization as a separate with a join.**

**10. The join which contains the “value1/value2” is the repective field value for positive and negative reponses and which gets change because we have set the increment of the value1/value2 as +1 for every clicking of button.**

**11. Also when the either of the button is clicked then both button gets invisible.**

**12. As we have started the clock after clicking of either of the button, the timer is started and when the 1000 ms which we have set earlier is completed then , the clock is disabled and both the buttons are made to to visible.**

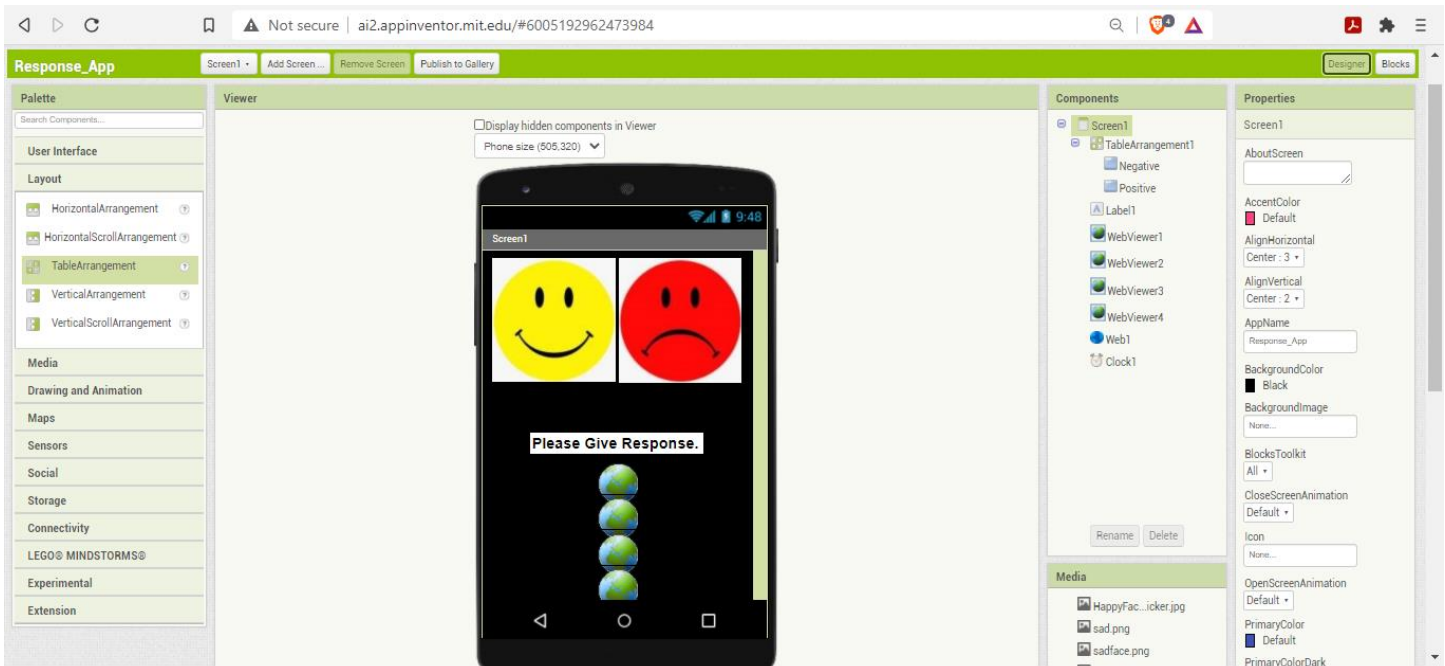
**13. This process continues after every reponse or after every clicking of either button.**

**14. Now after clicking the button, the value is sent to the Thingspeak cloud and the widget show the required count.**

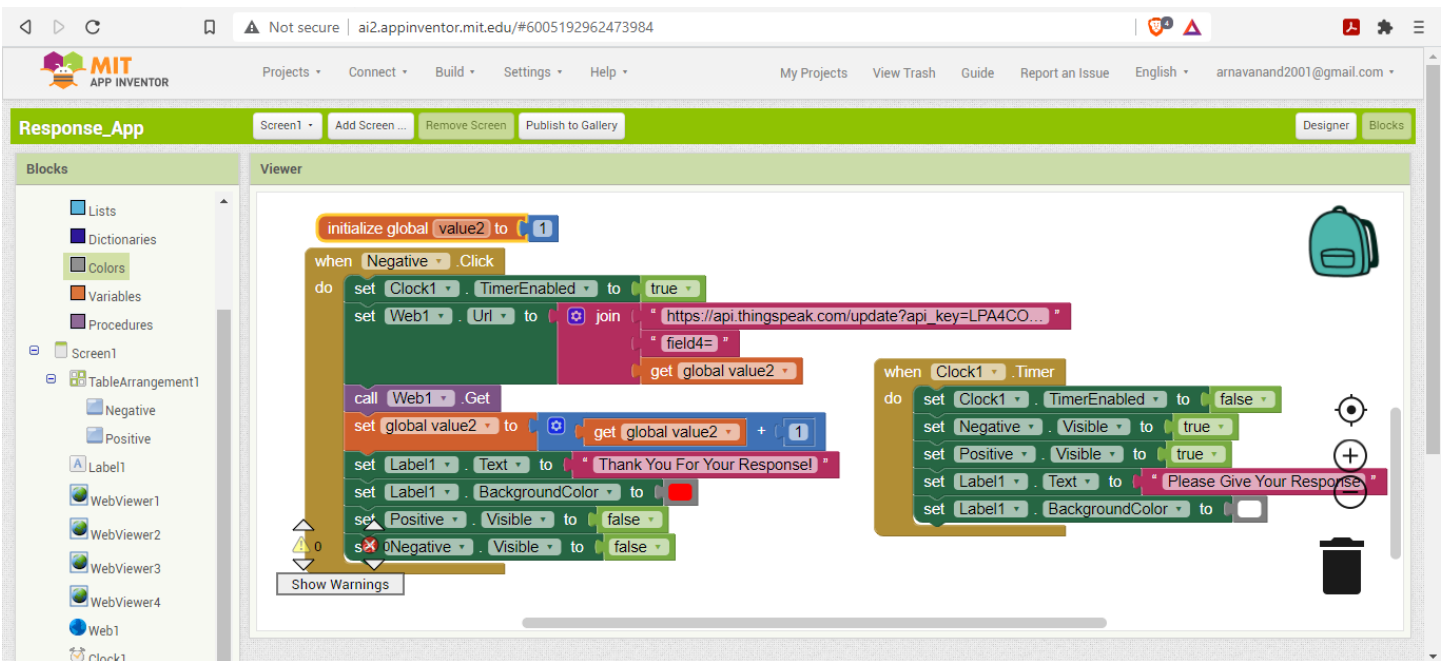
**15. Here is the link for the .apk file for the application explained above.**

**<https://drive.google.com/file/d/1oLawYXP-gwTgGd7h5ygnlI-tiQ2keG7ln/view?usp=sharing>**

# DESIGNER VIEW



# CODE BLOCK



MIT APP INVENTOR

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Response\_App Screen1 Add Screen ... Remove Screen Publish to Gallery Designer Blocks

Blocks

- Built-in
  - Control
  - Logic
  - Math
  - Text
  - Lists
  - Dictionaries
  - Colors
  - Variables
  - Procedures
- Screen1
  - TableArrangement1
    - Negative
    - Positive
  - Label1
  - WebView1

Viewer

initialize global value1 to 1

when Positive.Click do

- set Clock1.TimerEnabled to true
- set Web1.Url to join ["https://api.thingspeak.com/update?api\_key=LPA4CO...", field3=, get global value1]
- call Web1.Get
- set global value1 to get global value1 + 1
- set Label1.Text to "Thank You For Your Response!"
- set Label1.BackgroundColor to yellow
- set Positive.Visible to false
- set Negative.Visible to false

Show Warnings

Rectangular Snip

Tools: Backpack, Zoom, Pan, Rotate, Delete

# THINGSPEAK FIELD

ThingSpeak™ Channels Apps Support Commercial Use How to Buy AA

Field 3 Chart IoT Demo-Jan

Positive Response

5

Persons  
a minute ago

Field 4 Chart IoT Demo-Jan

Negative Response

3

Persons  
a minute ago