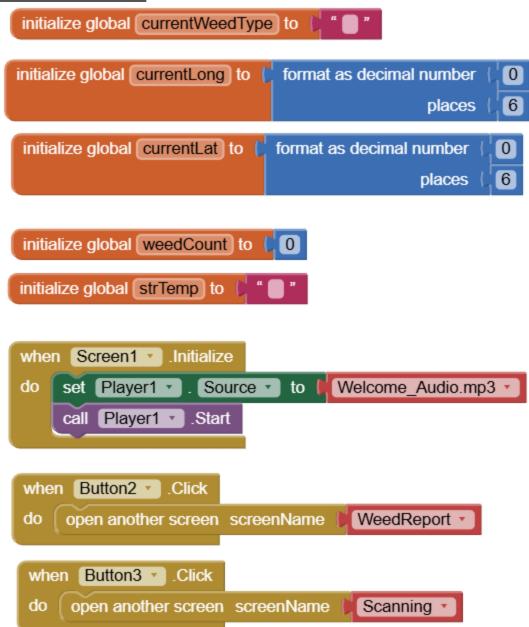
Code Submission (PDF)

Screen 1: Initialization

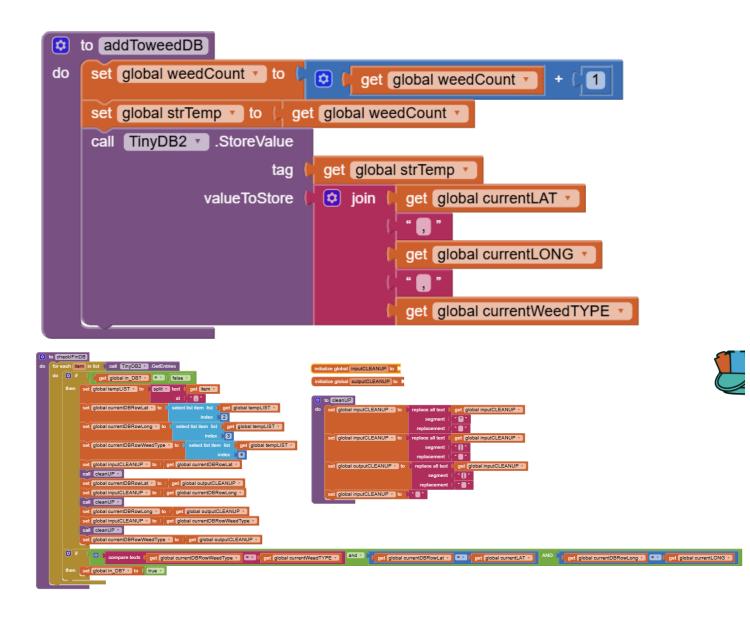


Screen 2: Scanning & Weed Detection

```
initialize global currentWeedTYPE to 📜 "
initialize global strTemp to ( "
initialize global weedCount to 0
 initialize global foxtail_Confidence to 0
initialize global currentLAT to decimal
initialize global currentLONG to decimal
initialize global (amaranthFOUND) to | false •
initialize global foxtailFOUND to false
initialize global in DB? to false
initialize global tempLIST to
initialize global currentDBRowLat to decimal
initialize global currentDBRowLong to decimal
initialize global currentDBRowWeedType to
```

```
when Button1 .Click
      call TeachableMachineImageClassifier1 .StopWebcam
 do
                                             Screen1 •
      open another screen screenName
when Scanning .Initialize
do
      call TinyDB2 .ClearAll
                                                    false
      set LocationSensor1 •
                                 Enabled •
       TeachableMachineImageClassifier1 .ClassifierReady
     call TeachableMachineImageClassifier1 •
                                                   .ClassifyVideoData
do
when TeachableMachineImageClassifier1 .GotClassification
  result
                                                         Palmer Amaranth
    set global amaranth Confidence v to
                                        get value for key
do
                                            in dictionary
                                                          get result •
                                                          " 0 "
                                           or if not found
    set global foxtail Confidence to get value for key
                                                        Foxtail 1
                                         in dictionary
                                                       get result •
                                        or if not found
                                                        0
    🗯 if
                 get global amaranth Confidence
                                                       90
    then
          set global amaranthFOUND v to
          set LocationSensor1 . Enabled .
                                                 true 🔻
    else if
                get global foxtail Confidence .
                                                    90
           set global foxtailFOUND ▼ to true
    then
              LocationSensor1 •
                                 Enabled •
                                               true 🔻
                                                .ClassifyVideoData
          call TeachableMachineImageClassifier1 •
```

```
when LocationSensor1 .LocationChanged
 latitude longitude altitude speed
do set global currentLAT • to format as decimal number get (latitude •
                                            places (6
    set global currentLONG * to ( format as decimal number | get (longitude *
                                              places
                                                      6
               get global amaranthFOUND * = * | true *
    then set global currentWeedTYPE to AMARANTH
          set global in_DB? to false v
         call checklFinDB *
         get global in_DB? v = v false v
          then call addToweedDB
               call Sound1 .Vibrate
                            millisecs 1000
               set Sound1 . Source . to amaranthaudio.mp3 .
                call Sound1 .Play
               get global foxtailFOUND = T true T
    then set global currentWeedTYPE to FOXTAIL
          set global in_DB? • to false •
         call checklFinDB *
         if 🖟
                     get global in_DB? * = * false *
          then call addToweedDB *
               call Sound1 .Vibrate
                            millisecs 1000
               set Sound1 . Source to foxtailaudio.mp3 .
               call Sound1 .Play
         call addToweedDB *
    set global amaranthFOUND v to false v
    set global foxtailFOUND * to false *
   set LocationSensor1 . Enabled to false .
    call TeachableMachineImageClassifier1 .ClassifyVideoData
```



Screen 3: Storing Values and Plotting on Map

```
initialize global outputCLEANUP to
initialize global inputCLEANUP to
initialize global currentLONG to decimal 0
initialize global currentLAT to decimal 0
initialize global currentWeedType to
initialize global (tempSTR) to | | " |
initialize global (tempLIST) to 🕻 🖸 create empty list
initialize global (tempMARKER) to
   WeedReport - L
  weekepot Initialize

set Map1 II. Features II to Coreale empty list

set Map1 II. Visible II to Cale
    for each item in list | call TinyDB2 . GetEntries
   do set global tempLIST to | split text | get item t
                                       at ( " 🗑 "
       set global currentLAT • to select list item list get global tempLIST • index 2
        set global currentLONG • to select list item list get global tempLIST • index 3
        set global currentWeedType • to [ select list item list | get global tempLIST • index | 4
        set global inputCLEANUP . to get global currentLAT .
        set global currentLAT * to | get global outputCLEANUP *
        set global inputCLEANUP * to ( get global currentLONG *
       cal cleanUP •
        set global currentLONG * to get global outputCLEANUP *
         et global inputCLEANUP * to get global ourrentWeedType *
         et global currentWeedType • to | get global outputCLEANUP •
        set global tempMARKER • to ( call Map1 • .CreateMarker
                                                     get global currentLAT •
                                                   longitude get global currentLONG
       set Marker. (Width )
             of component to get global tempMARKER •
        set Marker. [Height 12]
              of component | get global tempMARKER + to | 55
        compare texts | get global currentWeedType • = • ( * AMARANTH) *
        then set Marker. ImageAsset
                        of component get global tempMARKER •
                             to ( amaranth_icon.png *
            set Marker. [ImageAsset * of component to foxtsil icon.png *
        else if compare texts | get_global currentWeedType • = • ( • FOXTAIL •
   set [Map1 ] . CenterFromString ] to [ (i) join | get global currentLAT •
                                              get global currentLONG •
   set Map1 . Visible to true
   set Label1 . Text to call TinyOB2 . GetEntries
```

```
to cleanUP
do set global inputCLEANUP v to ( replace all text (
                                                  get global inputCLEANUP 🔻
                                                    " " "
                                         segment
                                                   " 📗 "
                                     replacement
     set global inputCLEANUP • to
                                                    get global inputCLEANUP •
                                    replace all text
                                                    "]"
                                         segment
                                     replacement
     set global outputCLEANUP v to
                                     replace all text
                                                     get global inputCLEANUP •
                                                     " 🚺 "
                                          segment
                                       replacement
     set global inputCLEANUP v to
```