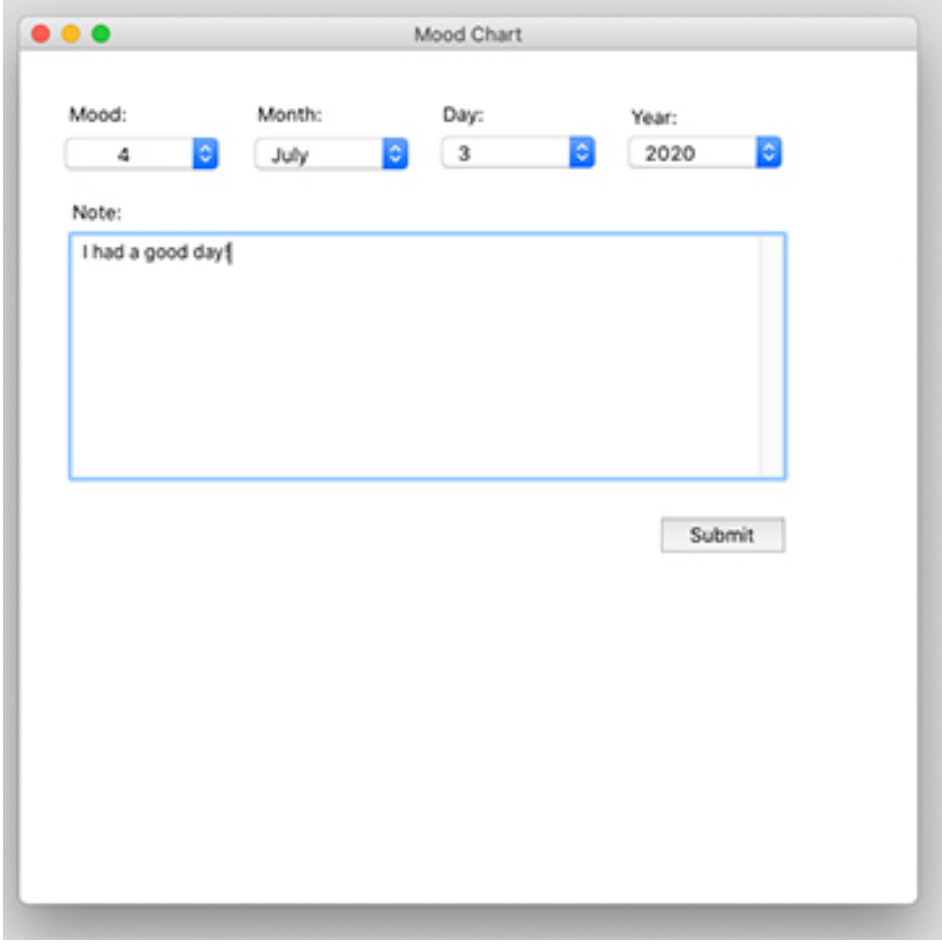
Screenshot of the entry page for the Mood Chart application:



Code for Submit button

```
on mouseUp
  put the seconds into created
  repeat with i = 1 to (the number of flds)
    if (the name of fld i) contains "Label" then next repeat
    put (the short name of fld i)&"#######"&(fld i)&return after tXX
  end repeat
  put word 2 of the long name of this stack into tAddress
  delete char 1 of tAddress

  repeat until the last char of tAddress = "/"
    delete last char of tAddress
    if tAddress = "" then exit repeat
```

```
   end repeat
   put tAddress&"mood/"&created&".txt" into tAddress
   put tXX into URL("file:"&tAddress)
    repeat with i = 1 to (the number of flds)
       put the short name of fld i into fldName
       if fldName is in "Label Field, theScript, targetScriptShown" then next repeat
       put line 1 of fld fldName into BigData[fldName]
    end repeat
    combine BigData by numtochar(3) and numtochar(8)
    if (fld "Selector" of cd "Selector"  contains tXX)
    then
    else
       put (line 1 of fld "month")&"/"&(line 1 of fld "day")&"/"&(line 1 of fld
"year")&tab&(line 1 of fld "mood")  into tTagLine
       put tTagLine&tab&created&return after fld "Selector" of cd "Selector"
       put fld "note" into the fld "note" of cd "Selector"
       sort lines of fld "Selector" of cd "Selector" ascending dateTime by item 1 of each
     end if
     go to cd "Selector"
end mouseUp
```

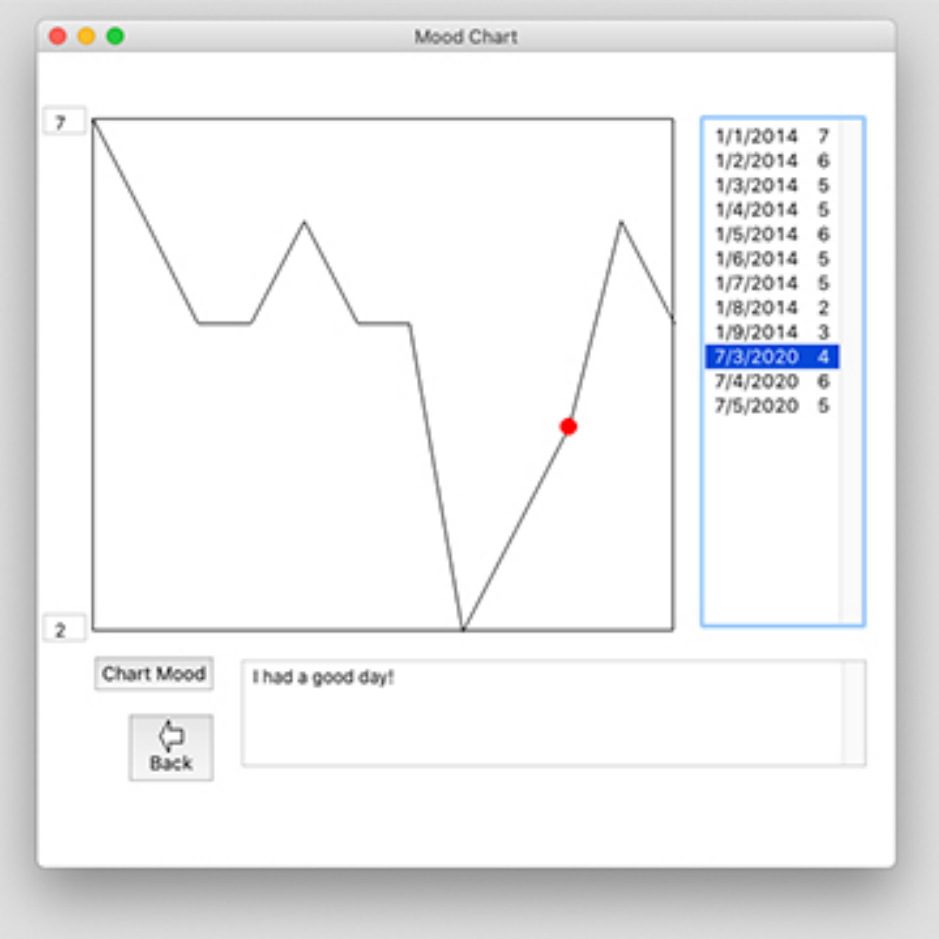
Code for Dropdown Year Button

All four dropdown buttons use similar code

```
on menuPick pItemName
   switch pItemName
      case "2014"
        put "2014" into fld year
        break
        case "2015"
        put "2015" into fld year
        break
        case "2016"
          put "2016" into fld year
          break
           case "2017"
        put "2017" into fld year
        break
        case "2018"
        put "2018" into fld year
        break
        case "2019"
          put "2019" into fld year
```

```
            break
             case "2020"
            put "2020" into fld year
          break
    end switch
end menuPick
```

Screenshot of the mood charting screen for the Mood Chart application:



Code for Selector Button with Dates and Mood Ratings

```
on mouseUp
  put the second word of the clickline into OvalX

  put the points of graphic "Line" into OvalPoints
  put line OvalX of OvalPoints into PointLocation

  set the location of graphic "Oval"  to PointLocation

  put the value of the clickline into theFileSought
  if (theFileSought = "") then exit mouseUp
   set itemdelimiter to tab
   put (item 3 of theFileSought) into  theFileSought
     set the itemDelimiter to "/"
  get the effective fileName of this stack
  set the defaultFolder to item 1 to -2 of it
  put defaultFolder into PathtoFiles
   put PathtoFiles&"/mood/"&theFileSought&".txt" into pathName
 if (there is a file pathName)
   then
      put url("file:"&pathName) into BigData
      split BigData by numtochar(3) and numtochar(8)
      put keys(BigData) into tYY
   else
      put "No such file."&return after msg
      exit mouseUp
    end if
    repeat while tYY contains "#####"
     get offset("###",tYY)
     put (char 1 to (it-1) of tYY) into fldName
     delete char 1 to it of tyy
     repeat while char 1 of tYY = "#"
       delete char 1 of tYY
     end repeat
     put line 1 of tYY into fld fldName
     delete line 1 of tYY
  end repeat
repeat with i = 1 to (the number of lines of tYY)
      put line i of tYY into fldName
      put BigData[fldName] into fld fldName
   end repeat

   end mouseUp
```

Code for Chart Mood button

```
on mouseUp
	local smallestDataX, largestDataX, smallestDataY, largestDataY
	local rectBotton, rectTop, rectLeft, rectRight
	local windowPoints

	put the bottom of graphic "Rectangle" into rectBottom
	put the top of graphic "Rectangle" into rectTop
	put the left of graphic "Rectangle" into rectLeft
	put the right of graphic "Rectangle" into rectRight

	## sort the data to get the largest and smallest values
	set the itemDel to tab -- usually unnecessary, but just in case...
   ## sort the data by y value first
	sort lines of field "Selector" ascending numeric by item 2 of each
	put item 2 of line 1 of fld "Selector" into smallestDataY
	put item 2 of the last line of fld "Selector" into largestDataY
  ## use the same method for x value
	## this leaves the data sorted by x, as we want
	sort lines of field "Selector" ascending numeric by item 1 of each
	put 1 into smallestDataX
	put the number of lines in field "Selector" into largestDataX

	## check:
  --  put "smallestDataY = " & smallestDataY & cr & "largestDataY = " &
largestDataY & cr into tMessage
    --put "smallestDataX = " & smallestDataX & cr & "largestDataX = " &
largestDataX after tMessage
	--answer tMessage

  sort lines of fld "Selector" ascending dateTime by item 1 of each
	repeat with x = 1 to the number of lines in field "Selector"
		get line x of field "Selector"
		## get the data values
		put the value of x into dataX
		put item 2 of it into dataY
		## calculate the window values
		put rectLeft + ((rectRight - rectLeft)/(largestDataX - smallestDataX)) * (dataX -
smallestDataX) into windowX
		put rectBottom - ((rectBottom-rectTop)/(largestDataY - smallestDataY)) *
(dataY - smallestDataY) into windowY
		## add the new window point to the list, rounding to an integer
		put round(windowX) & comma & round(windowY) & cr after windowPoints
	end repeat
	## draw the graph
```

```
      set the points of graphic "Line" to windowPoints
   put the number of lines in field "Selector" into recentPoint
   put line recentPoint of windowPoints into PointLocation
   set the location of graphic "Oval"  to PointLocation
   put the value of largestDataY into the fld MoodHigh
   put the value of smallestDataY into the fld MoodLow
end mouseUp

--code for graph drawing modified and used from
--http://lessons.runrev.com/s/lessons/m/4071/l/7049-how-to-make-a-simple-line-graph
```