Problem Statement- This design is meant to help the casual fisherman who are on Lake Oconee and may not know the regulations for keeping fish on the lake, as well as give them a way to accurately record their fishes weight so that they can go home and brag accordingly.

Proposed idea- This design will include a digital scale that when the fish is placed onto it, will display the weight onto the main screen. It will also house a database with fishing regulations and slot limits for fish to be kept regarding Lake Oconee in Georgia.

Influences-

FRESHWATER
GAME SPECIES DAILY LIMITS (See page 19 for special limits on Public Fishing Areas.)

SPECIES		DAILY LIMIT	EXCEPTIONS
Bass	Largemouth, Redeye (Coosa), Shoal, Smallmouth, Spotted, and/or Suwannee bass	10	• Lake Grace (Wayne Co.) — Only one bass may be greater than 22 inches. • 14 inch minimum length limit for largemouth bass from Lake Oconee. • 12 inch minimum length limit for largemouth bass from the Ocmulgee River (Macon's Spring Street bridge crossing to confluence with Oconee River). • 15 inch minimum length limit for shoal bass from the Flint River and its tributaries upstream of Warwick Dam.
Catfish	Channel and/or Flathead	No limit	—
Crappie	Black and/or White	30	—
Pickerel	Chain, Grass and/or Redfin	15	
Shad	American and/or Hickory	8	—
Striped Bass, White Bass and/or Hybrid White-Striped Bass	—	15, only two of which can be 22 inches or longer.	• Limit taken from the North Newport River, Medway River including Mount Hope Creek, Little Ogeechee River, Ogeechee River, Oconee River downstream of GA Hwy 22 in Milledgeville, Ocmulgee River downstream of the GA Hwy 96 bridge between Houston and Twiggs counties, Altamaha River, St. Mary's River, Satilla River, and the tributaries to these river sections; and from saltwater is a two fish limit, both of which must be 22 inches in length or longer. • Limit taken from the Savannah River and its tributaries downstream of J. Strom Thurmond Dam is a two fish limit, both of which must be 27 inches in length or longer. • Limit taken from Lake Richard B. Russell from the Russell Dam to Lake Hartwell Dam and Lake Secession Dam, all tributaries to Lake Richard B. Russell is two (2) striped bass per day, only one (1) of which can exceed 34 inches in length. • See the Fishing Regulations for shared waters for Georgia and South Carolina on page 16.
Sunfish or Bream	Bluegill, Flier, Redbreast, Redear, Rock bass, Spotted sunfish, Warmouth and/or Shadow bass	50	Bream: See South Carolina Agreement on page 16.
Trout	Brook, Rainbow, and/or Brown trout	8	See Amicalola Creek, Chattahoochee River, Chattooga River, Smithgall Woods, Smith Creek, Toccoa River, and Waters Creek on pages 22–25. See the new limits for shared waters of Georgia and South Carolina on page 16.
Walleye	—	8	—

Sturgeon - May not be taken in fresh or saltwater in Georgia.

http://www.eregulations.com/wp-content/uploads/2017/01/17GAFW_LR.pdf (fishing regulation, limits)

Digital fish scales

https://www.google.com/search?q=digital+fish+scale&client=safari&rls=en&source=lnms&tbm=isch&sa=X&ved=0ahUKEwj10amM3dzYAhWN11MKHb91ClwQ_AUICygC&biw=1679&bih=886#imgrc=7srkSL1yAru0SM:

http://judicial.alabama.gov/library/rules/ja20_appxb.pdf

This is the legislation as to fines which range from a minimum of $50 to up to $250 for violating fishing regulations.

Types of sensors for digital weight scale

https://www.amazon.com/dp/B076P8G8B6/ref=asc_df_B076P8G8B65339828/?tag=hyprod-20&creative=395033&creativeASIN=B076P8G8B6&linkCode=df0&hvadid=228860412633&hvpos=1o2&hvnetw=g&hvrand=11261616787935738580&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9010853&hvtargid=pla-391309017493

https://www.robotshop.com/en/sfe-load-sensor-50kg.html?gclid=CjwKCAiAhfzSBRBTEiwAN-ysWGeKlwSPwzup9yJMrJjZgKdc8Meyo37Hy9ofPL6_Io4FpWVcPe7vmBoCO_0QAvD_BwE

http://www.orvis.com/p/black-nickel-carabiner-tape-measure-zinger-combo/12FN?item_code=12FN0000&adv=127748&cm_mmc=plas-_-FlyFishing-_-12FN-_-127748&gclid=CjwKCAiAhfzSBRBTEiwAN-ysWAedX9qUbIZclre4SraFc45GNjj39RN834PbUaej32WI1d0UUESexhoCYEoQAvD_BwE

http://shopping.rediff.com/product/2in1-22kg-portable-kitchen-wight-fish-hook-hanging-weighing-scale-with-measuring-tape-01/19824586

https://www.amazon.com/ReelSonar-Digital-Scale-Measure-Gripper/dp/B00W9ME9AE