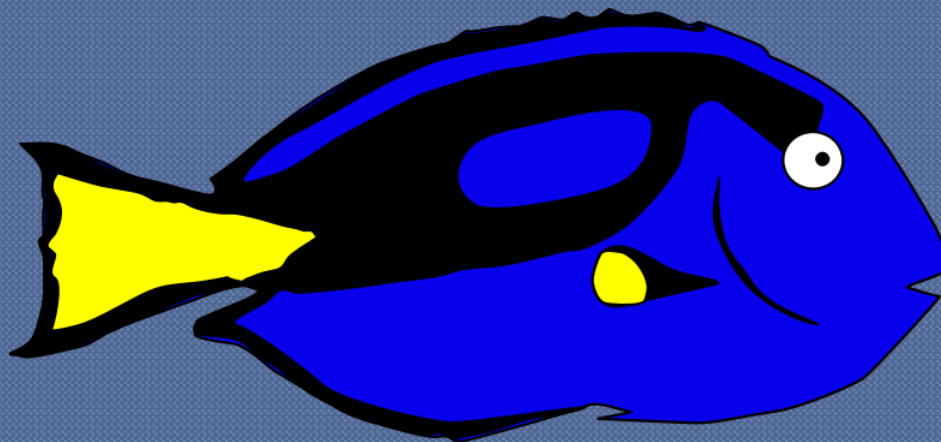


# Electronic Field Input System

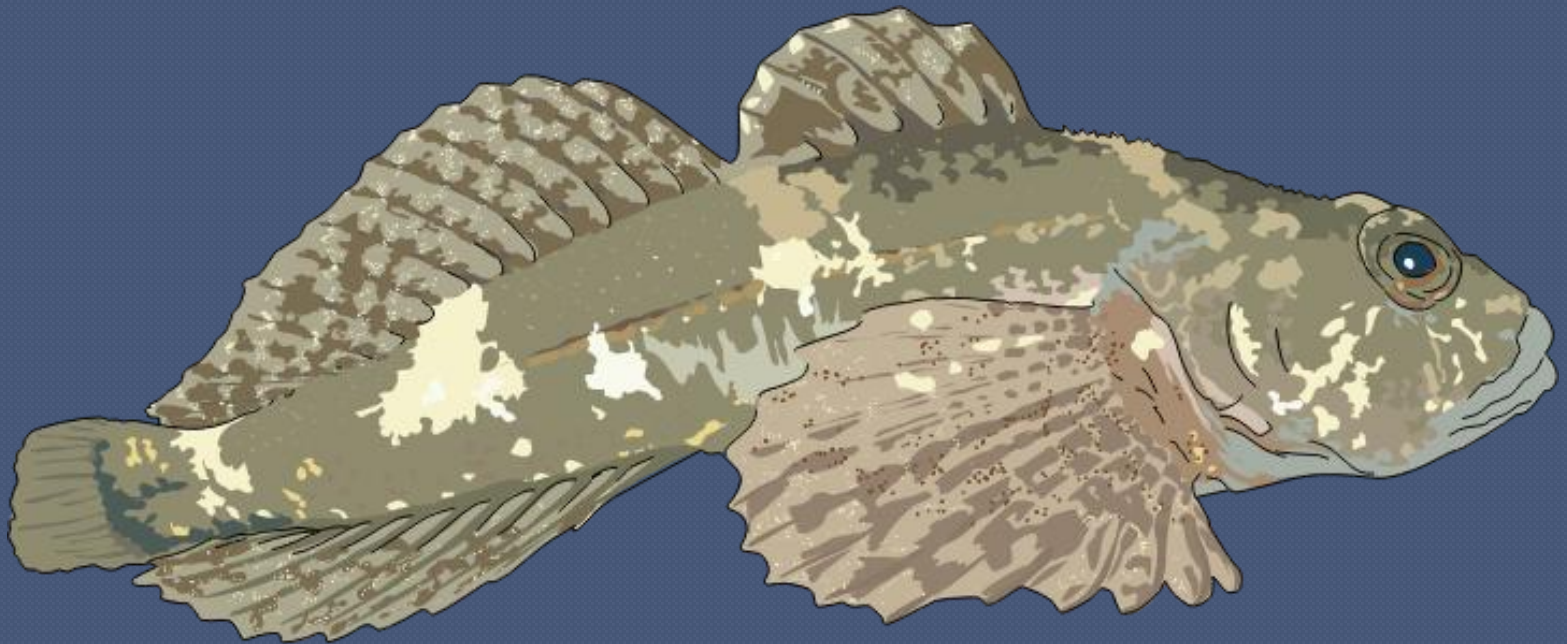
Team 5

Stacy Carlson, Thomas Flores, and Ralph Parkison



# User Interface

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# Shore Angler and Boat Trailer Counts

Franklin D. Roosevelt Lake Survey System

## 1st Location

Location Start Time  
05:01

Location  
1 - China Bend

Time At Location  
00:00

### Party #1

Species Caught	Kept/ Released	Party Size	Complete Trip	Start Time	End Time	Target Species 1	Target Species 2	Tag Number	Notes	Delete Fish																							
		1 +	Y			None	0-None																										
		Total	Length (	Periodic Population Count		Tag Type																											
				<table><thead><tr><th colspan="5">Shore Anglers</th><th>Boat Trailers</th></tr></thead><tbody><tr><td colspan="5"></td><td></td></tr><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>◀</td></tr><tr><td>6</td><td>7</td><td>8</td><td>9</td><td>0</td><td>✓</td></tr></tbody></table>		Shore Anglers					Boat Trailers							1	2	3	4	5	◀	6	7	8	9	0	✓				
Shore Anglers					Boat Trailers																												
1	2	3	4	5	◀																												
6	7	8	9	0	✓																												

+ Fish

New Party

End Location

# Enable/Disable Buttons for Completed Fish

0-None



 Fish

New Party

End Location

1-Rainbow Trout

K R

7



 Fish

New Party

End Location

# Enable/Disable Buttons for Completed Fish (Continued)

1-Rainbow Trout ▾

K R

1

Y N

0-None ▾



⊕ Fish

New Party

End Location

1-Rainbow Trout ▾

K R

1

Y N

1-PIT Tag ▾

q



⊕ Fish

New Party

End Location

# Delete Button Work

---

- ◉ Delete works for first and last row
- ◉ Delete doesn't work for middle rows
  - Different attempts
    - `panel.Controls.RemoveAt(rowCount);`
    - `panel.RowStyles.RemoveAt(rowCount);`
    - `panel.Invalidate()` and `panel.Refresh()`
    - Loop with `panel.RowStyles[i] = panel.RowStyles[i+1]`

# Delete Button Issues

Franklin D. Roosevelt Lake Survey System

## 1st Location

Location Start Time

05:20

Location

1 - China Bend

Time At Location

00:00

## Party #1

Party  
Size

1 +

Complete Trip

Y N

Start Time

17:20

End Time

Target  
Species 1  
1-Rainbow Trout

Target  
Species 2  
0-None

Species  
Caught

1-Rainbow Trout

Kept/  
Released

K R

Total

7

Length (mm)

Weight (g)

Fin  
Clip

Tag  
Type

Tag  
Number

Notes



Delete Fish



0-None



Fish

New Party

End Location



5:21 PM  
2/9/2015

# JSON

---





# Lookup Tables Implemented

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- ◉ Several problems occurred acquiring DB team JSON
  - JSON sent from our side with username and password required a variable name attached to it
  - JSON received from DB team had various escape characters littered in the JSON

# Working Solution for Escape Characters

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- ⦿ Problem: Escape characters sent from DB team
- ⦿ Solution: Remove characters with string replace function
  - Hack Fix
    - `json = json.Replace("\\"", "[");`
    - `json = json.Replace("]\\"", "]);`
    - `json = json.Replace(@"\r", "");`
    - `json = json.Replace(@"\n", "");`
    - `json = json.Replace(@"\"", "");`
  - DB team will need to resolve this issue on their side

# Design of Lookup Tables Object

---

- Look up tables are accessed through a root class.

```
class LookupTables
{
    public List <CreelSurveyLookup> CRSrvyMthLUT { get; set; }
    public List<RawFishSpeciesLookup> SppLUT { get; set; }
    public List<CreelSpeciesLookup> CRSppLUT { get; set; }
    public List<CreelAnglerTypeLookup> AngTypeLUT { get; set; }
    public List<CreelLocationLookup> BoatLaunchLUT { get; set; }
    public List<CreelReachLookup> CRReachLUT { get; set; }
    public List<CreelOrgLookup> OrgAffilLUT { get; set; }
    public List<CreelTagColorLookup> TagColorLUT { get; set; }
    public List<CreelTagLookup> TagLUT { get; set; }
}
```

# Where We're Going

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- ◉ Continue work on the UI
  - Finish up client requested changes
  - Increase size on the buttons for ease of use
  - Begin transitioning from static to dynamic data in controls
- ◉ Continue work on the JSON and CSV
  - Communicate with DB team about issues