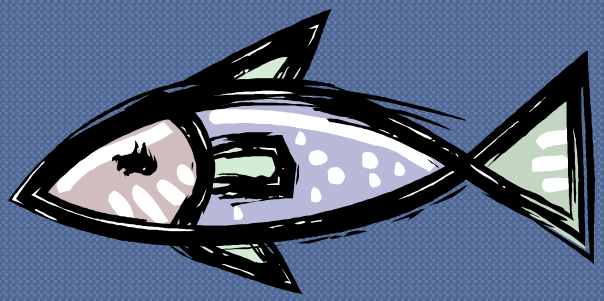
# Electronic Field Input System

Team 5
Stacy Carlson, Thomas Flores, and Ralph Parkison



# The Problem

- Paper forms submitted via mail
  - Potential for loss
  - Errors during transcription
  - Long time to access the data

2/8/05

# Franklin D. Roosevelt Lake Creel Survey Form

Date (mm/dd/yy): 0 5 2 4 1 4

Weekday: 6

Section: 1

Survey Type: 1

Start Work: 0700
Finish Work: 2100

Start Creel: 1000
Finish Creel: 2000

Creel Clerk Initials: JE RM

Page 1 of 2

Total hours Creeled: 10.0

| Comment # | Location | Party # | Party Size | Time Checked | No. of Anglers | Angler Type | Start Time | End Time | Complete Trip | Zipcode | Target Species 1 | Target Species 2 | Species Caught | Released / Kept | Total Length (mm) | Weight (g) | Species Origin | Mark | Fin Clip | Tag Color | Tag Number |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KR | | 3 | 1330 | 3 | 1 | 0630 | 1315 | 1 | 99206 | 3 | 0 | 3 | 1/15 | EST. 380 mm | | 2 | 0 | 0 | 0 | |
| | | | | | | 1 | 0630 | 1315 | 1 | 99206 | 3 | 0 | 3 | 1/15 | EST. 395 mm | | 2 | 0 | 0 | 0 | |
| | | | | | | 1 | 0630 | 1315 | 1 | 99206 | 3 | 0 | 3 | 1/10 | EST. 350 mm | | 2 | 0 | 0 | 0 | |
| | S | | 3 | 1340 | 3 | 1 | 0700 | 1320 | 1 | 99206 | 3 | 0 | 3 | 1/8 | EST. 370 mm | | 2 | 0 | 0 | 0 | |
| | | | | | | 1 | 0700 | 1320 | 1 | 99206 | 3 | 0 | 3 | 1/8 | EST. 380 mm | | 2 | 0 | 0 | 0 | |
| | | | | | | 1 | 0700 | 1320 | 1 | 99206 | 3 | 0 | 3 | 1/4 | EST. 395 mm | | 2 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | 7 | 0 | | | 2 | 0 | 0 | 0 | No. Pike 24" |
| | S | | 2 | 1410 | 2 | 1 | 0700 | 1350 | 1 | 99141 | 3 | 0 | 3 | 0/7 | | | 0 | 0 | 0 | 0 | |
| | | | | | | 1 | 0700 | 1350 | 1 | 99141 | 3 | 0 | 3 | 0/12 | | | 0 | 0 | 0 | 0 | |
| | | | 3 | 1520 | | 1 | 0800 | 1510 | 1 | 99109 | 3 | 0 | 3 | 1/3 | EST. 396 | | 2 | 0 | 0 | 0 | |
| | | | | | | 1 | 0800 | 1510 | 1 | 99109 | 3 | 0 | 3 | 1/3 | EST. 385 | | 2 | 0 | 0 | 0 | |
| | | | | | | 1 | 0800 | 1510 | 1 | 99109 | 3 | 0 | 3 | 1/3 | EST. 370 | | 2 | 0 | 0 | 0 | |
| | S | | 3 | 1650 | 2 | 1 | 0700 | 1510 | 1 | 99141 | 3 | 0 | 3 | 1 | 395 | 505 | 2 | 0 | 0 | 0 | |
| | | | | | | 1 | 0700 | 1510 | 1 | 99141 | 3 | 0 | 3 | 1 | 395 | 465 | 2 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | 3 | 1 | 422 | 640 | 2 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | 3 | 1 | 382 | 465 | 2 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | 3 | 1 | 425 | 570 | 2 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | 3 | 1 | 412 | 545 | 2 | 0 | 0 | 0 | |
| | S | | 2 | 1640 | 2 | 1 | 0800 | 1620 | 1 | 99206 | 3 | 0 | 3 | 1 | 395 | 500 | 2 | 0 | 0 | 0 | |
| | | | | | | 1 | 0800 | 1620 | 1 | 99206 | 3 | 0 | 3 | 1 | 390 | 490 | 2 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | 3 | 1 | 380 | 435 | 2 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | 3 | 1 | 390 | 485 | 2 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | 3 | 1/10 | EST. 387mm | | 2 | 0 | 0 | 0 | |

Notes:

est. mile 122

# Client Requirements

- Electronic Input System
  - Creel (Top priority)
  - Raw Fish
  - FWIN
- Easily updatable/maintainable
  - Study needs change over time
- Fully functional with Database
- Solution can't depend on an Internet connection

# End User

- Creel Clerk
  - Two types
    - Stationary
    - Bus Route
  - Trained how to do Creel survey
  - Varying computer skills

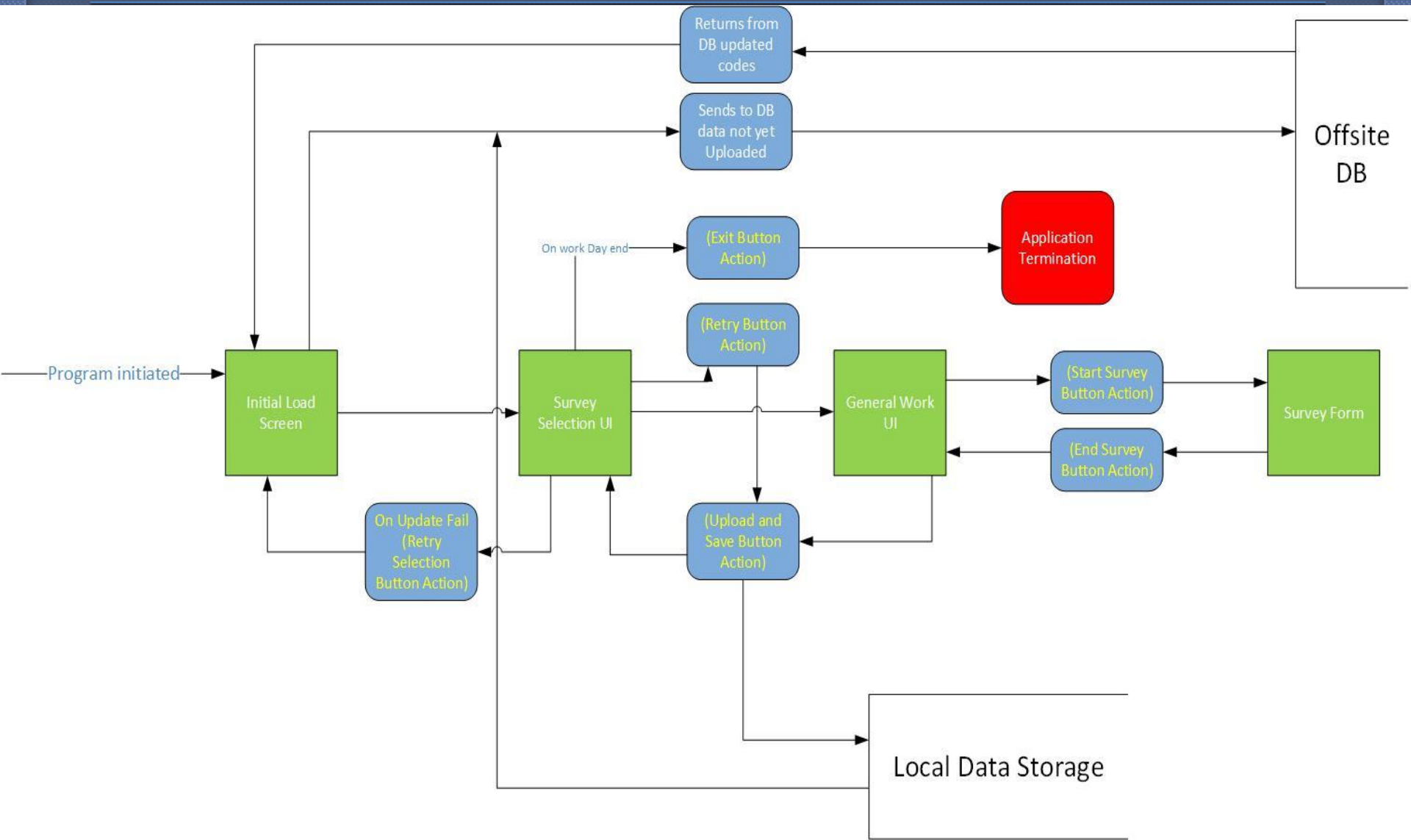
# Operating Environment

- Getac Tablet
  - Windows 7 Professional (64 bit)
  - Stylus/On screen keyboard

# Specifications

- Windows Application written in C#
- Store data locally in log files
- Interact with Database via JSON

# Overview of the System



# User Interface Mockups

# Franklin D. Roosevelt Lake Survey System

## What Would You Like To Do?

## Unreported Surveys: 3

# Tuesday 10/14/2014

| Survey Type | Section | Work Day Start | Work Day End |
| --- | --- | --- | --- |
| Bus | Upper | Start | End |

# Tuesday 10/14/2014

| Survey Type | Section | Work Day Start | Work Day End |
|---|---|---|---|
| Bus | Upper | 8:06 | End |

| Location | Start | End | Parties | Fish |
|---|---|---|---|---|
| Bus Route 94 | 8:05 | 8:55 | 4 | 37 |
| Bus Route 95 | 9:37 | 10:19 | 7 | 31 |
| Bus Route 96 | 10:53 | 11:45 | 2 | 6 |
| Bus Route 97 | 12:13 | 13:08 | 10 | 53 |

Start New Location

# Creel Survey #5

| Creel Survey Start | Location | Creel Survey End |
|---|---|---|
| 8:06 | 3 | 14:37 |

## Party #3

| Party Size | No. of Anglers | Angler Type | Start Time | End Time | Complete Trip | Zip Code | Target Species 1 | Target Species 2 |
|---|---|---|---|---|---|---|---|---|
| 2 | 2 | Boat | 6:30 | 13:06 | Y N | 99801 | Rainbow Trout | Kokanee Salmon |

Fish | New Party | End Survey

# 5th Location

| Location Start Time | Location | Time At Location |
|---|---|---|
| 8:06 | 3 - Location Name | 0:50 |

## Party #3

| Party Size | No. of Anglers | Angler Type | Start Time | End Time | Complete Trip | Zip Code | Target Species 1 | Target Species 2 |
|---|---|---|---|---|---|---|---|---|
| 2 | 2 | Boat | 6:30 | 13:06 | Y N | 99801 | Rainbow Trout | Kokanee Salmon |

| Species Caught | Kept / Released | Total / Length | Weight (g) | Hatchery Origin | Mark / Tag | Fin Clip | Tag Type | Tag Number | Notes |
|---|---|---|---|---|---|---|---|---|---|
| Rainbow Trout | K R | 380 mm | 380 | Y N | Y N | Y N | Floy | ABCDEFGHIJ 1234567890 | |
| Kokanee Salmon | K R | 230 mm | 97 | Y N | Y N | Y N | Add-Fin | ABCDEFGHIJ 1234567890 | |
| Rainbow Trout | K R | 7 | | | | | | | |
| Kokanee Salmon | K R | | | | | | | | |

Fish | New Party | End Location

# Questions?