

SRS Differences

Detailed Explanation of Differences

Removal of Optional Items - The clients requested changes throughout the quarter, including some a week and a half before the deadline, so we didn't have time to address the optional items.

Diagrams - We updated the diagrams to reflect the application as it stands now. Some diagrams were added to help the next team understand the software.

Custom Keypads - We built custom keypads for text entry because we wanted to show only the letters or the numbers and the Windows built in keyboard didn't allow for this. We feel that the keypads allow for easier use, easier error checking, and add to the aesthetics of the software.

Menu Bar - We added a menu bar because we wanted to restrict access to the exit button. A clerk can only exit the program if they haven't started a work day or their work day is complete. The menu bar also holds the help files, which are always accessible.

Help Documentation for Biologists - After a demonstration of the help files included in the application for the creel clerks, the client requested a pdf version for use in the office. It is included in the binder under User Manual.

Folder Structure - We added information about the folder structure because we thought it was important for the next team to know where the application creates the structure and what exactly it looks like.

Location Pressure - Boat trailer and shore angler counts were previously angler types. The client felt that these counts didn't belong with the creel survey page because the counts and the types were the only pieces of data collected. We separated the counts into a separate button/control. We're able to enforce collection of count data at the beginning and ending of a location and provide a reminder each hour spent at the location.

Count Up Timer - Originally the client wanted to remind the clerk when time at a location was up if the survey was a bus route type, but the amount of time spent at each location was too varied to warrant this. They also wanted to give the clerk flexibility to finish the current survey and other location duties.

Name Dropdown - Originally the client wanted the clerk to type in their initials and they later decided to create a look up table for this information.

Mark Dropdown - Originally the client wanted a toggle for the fin clip, but asked the database team to include mark information, so we changed the toggle to a dropdown to include the additional options.

Separate Fish Objects for Released Fish - The client decided that there should be separate fish objects for each released fish. For example a released fish with a total field of 5 would result in 5 separate fish objects with totals of 1.

Creel Objects - Originally we had planned to save the data to log files as it was collected. We decided to save the data into objects instead and create JSON at the end of the day.

Removal of Previous Party Access - Originally the client wanted the software to mimic the paper form as much as possible. However as we discussed going between and editing the parties, the client brought up some issues that they are having with the clerks fabricating data and it became apparent that accessing the previous parties wasn't necessary or desirable.

Edit and Delete Fish - Originally the client wanted the clerk to be able to edit and delete any of the fish associated with the location but after discussing it further they decided they didn't want the clerk to be able to edit or delete any of the fish. We thought this might cause issues if the clerk made a mistake in entering the data, so we proposed allowing for editing and deleting fish associated with the current party. The clients agreed with us.

JSON Format - The format of the JSON for uploading is included in this document, it wasn't available in Fall.

JSON Changes - The uploaded JSON goes to a QA portion of the database instead of directly into the database as was originally planned. We also removed the time constraints for upload/download because we found they weren't necessary.

Simulated Field Tests - Originally we planned to conduct a field test at the lake. Unfortunately we ran out of time and tested the tablet at home without an internet connection hooked up.

List of Differences by Section

1.1 Purpose changed from items to be delivered to what actually was delivered. Future developers added to the list of who the document is for. Optional items removed.

1.2 Document convention for optional items removed.

2.1 Optional item removed. Diagram updated to reflect current design.

2.2 Features updated to indicate that not all fields from the paper form were kept for the survey and custom keypads were built.

2.6 Documentation updated to include the documentation created for the biologists.

3.1 Optional item removed. Added the creation of the data storage folder structure.

3.2 Initials changed to a name drop down. Bus route number added as a requirement if the bus route is selected. Updated Functional Requirements to include Welcome Screen User Interface and Creel Work Object.

3.3 Added the Location Pressure button /control, use case for no angler parties at a location, use case for a species type of none, delete button, and edit capabilities. Updated the countdown timer to a count up timer, fin clip toggle to a mark dropdown, species and kept/released initially shown to the species, notes button, and delete button being the only fields shown on adding a fish and added details about released fish being separate fish objects for each released fish. Removed previous parties being accessible via arrow buttons. Updated Functional Requirements to include Location Pressure Control, Creel Survey Object, Creel Party Object, Creel Angler Object, and Creel Fish Object.

3.4 Added detail about uploading the JSON, it goes to a QA section for approval. Removed time constraint. Added information about surveys being moved in the data storage folder structure. Added the folder structure to the requirements.

3.5 Added username/password requirement to download the data, path to data storage, and loading animation. Added loading animation and folder structure to the requirements.

4.1 Added the menu bar and updated the countdown timer to a count up timer.

4.2 Removed the virtual keyboard. Updated the database from MySQL to SQL Server.

4.3 Updated the database from MySQL to SQL Server.

5.3 Changed field testing to simulated field testing.

6 Removed documentation of testing.

Appendix A Added more terms.

Appendix B Updated user interfaces to the ones actually in use.

Appendix C Updated user stories to the actual user stories.

Appendix D Added a diagram for what makes up a complete fish.

Appendix E Added a diagram of data storage folder structure.

Appendix F Added the JSON output format.

Appendix H Updated to actual timeline and distribution of work.