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# **KABSU Inventory Application Specifications Document**

## **Problem Statement**

The Kansas Artificial Breeding Service Unit (KABSU) is self described as the one-stop shop for all your livestock breeding needs. For the purpose of this application we are only concerned about KABSU's services of storing of samples taken from cattle. KABSU keeps large amounts of samples for many different clients. Previously in the past they used paper and excel spreadsheets to keep track of the inventory. This becomes difficult to manage as searching through large amounts of paper documents or excel spreadsheets has become too time consuming. This current method will also not be able to scale in the future with KABSU's growing inventory of samples.

The main problem the KABSU Inventory Application will solve is to provide better ease of managing and searching this inventory. The second problem this will solve is the current process would become unmaintainable in the future due to the growing records. KABSU expects the amount of samples they will keep track of to grow exponentially in the coming years. This application will provide the means scalability with KABSU's growing inventory of samples.

## Technology

-my sql - edit using mysqlworkbench

## Architecture

SEE ATTACHED FILES:

Class\_Diagram.PNG

Shows a detailed class diagram of the class architecture for the application.

Database-Diagram.PNG

Shows a detailed database diagram of how the different tables in the database interact.

## Primary Goals

First and foremost, our primary goals are to continue to implement and refine features that help to solve the problems outlined in the Problem Statement. We want to make the user interface more intuitive to navigate. This will evolve refining the look of the user interface with our customer to find the best design. It will specifically involve implementing the ability to have entries that can be selected from a search and have it auto-populate a pop up with more information.

Another primary goal we have is to streamline the installation process so that it is easier for us to get our customers up and running, but also so that in the event of a tragedy, they can also get themselves up and running without our assistance. This will also help possible future developers in their ability to get the application running on their machine and start development.

Finally, we hope to if time allows provide a way to edit the database from multiple machines. This will allow it to fall in line with how the customer may use the system. To do this, a user login system may need to be implemented as well as auto-save and manual saving features.