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# **Mouseville**

## Vision/Scope

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# **Vision Statement**

Our goal is to transform our clients’ existing method of data collection from a long and tedious process into a quick intuitive experience by providing an easy to use application developed for the Apple iPad.

# **Opportunity Statement**

Mobile applications have become increasingly popular with the development of many more portable devices such as the Apple iPad. These applications can be designed to do pretty much anything, so many companies see an opportunity to create their own app to ease their work.

The current method of recording data on research mice is to record everything into an unorganized Excel spreadsheet. However, since many researchers do not own a portable device, they are unable to input data into the spreadsheet as they record it. To fix this problem, they record everything into a physical notebook, then run upstairs to input the data into the Excel spreadsheet at a later time. Providing this application will streamline the process of not only recording mouse data, but also viewing that data at a later time. The time saved by this streamlined process will allow the Wexner Medical Center to save money by allowing the researchers to do more with their time.

**Scope**

The scope of the Mouseville iPad application includes three main elements: creating an intuitive way to input mouse data, making it easy to view that mouse data at a later time, and exporting the data to an external CSV file.

## Intuitive Mouse Data Input

The current method of inputting data into his collection is by manually writing it down in a notebook. Mouseville allows the user to easily create new racks, cages, and mice and to place the mice anywhere within the defined rack space. The user will also be able to edit any of these details any time at their leisure.

* Mouseville users will be able to create a new rack through the new rack function found on the home screen. Simply touch the plus sign in the upper right hand corner of the screen and input the desired information.
* Once a rack has been created, users can input data into the cells by navigating into the rack and touching the desired cell. From there, users may change the name, notes, labels, and the mice in the cage.
* Within the cage view, mice may be added to the cage by touching the plus sign in the upper right hand corner of the “Mice” section. Similar to the rack view, input the desired data and press create when finished.

## Easily Edit Mouse Data

Existing mouse data can be easily edited at any time. Within the app, editing the details of any rack, cage, or mouse is similar to creating them.

* To edit the rack settings, navigate into the rack, where you can see all the cages in the rack. Click on the settings button in the upper left corner to navigate to the settings menu, where you’re able to change the labels for the respective rack.
* Cage settings are the exact same as creating the cage. Navigate into the cage and change the desired information in that screen.
* Mouse settings are changed by clicking on the edit icon next to the move icon in the mouse section of the cage view. To finish, just press save in the pop up menu.
* Genotype settings are found on the home screen. Touch the gear icon in the upper left corner, and add or delete the desired genotypes.

**Export Mouse Data to CSV**

Users may choose to export the mouse data out of the application to be viewed on another application such as Microsoft Excel. To do this, the app allows for the database to be exported via a CSV (Comma Separated Values) file. At the home screen, click on the gear icon in the top right corner and navigate down to the bottom of the screen. Touch the “Export to CSV” button, and the app will attach the file to an email, which can be sent wherever the user likes.

## Out of Scope

The following functions are considered out of scope for Version 1 of Mouseville. Future versions may address items not in scope, and those deemed not feasible during V1.0.

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| **Function** | **Comment** |
| Implementing an import function | Requested by Client |
| Extend functionality of the app to include multiple users | Requested by Client |
| Add the ability for the database to be saved in cloud storage | Requested by Client |

## Solution Concept

* **Implementation of data collection app**: Implement an app that makes it easy to input information specifically for the purpose of breast cancer research. This includes creating representing the containers of said mice through means of representing the cages that carry the mice and the racks that carry the cages.
* **Easy to view data any time**: Allow the user to easily view data in a systematic and intuitive manner. The app will also allow users to edit the data and customize the meanings of certain components to aid them in viewing the data easier.
* **Input Validation and Feedback:** Improve error-message response from the application to provide better clarity in problems detected in the provided input.
* **Application independence**: Provide functionality for input via comma-separated values (.CSV) format, allowing for easier manipulation of data and exporting to other programs for further data analysis.