

Design Change Document 1

2/8/2017

Scientist Feedback

- *Favorite Beaches* - Many surveyors work the same beaches consistently, and a favorites list would help prevent needing to go through the many drop-downs of beach selection repeatedly
- *Ability to add new beach at runtime* - Not all beaches are present in databases, so they need to add new ones. It will not be automatically pushed to the Wisconsin beach health databases.
- *Composite samples* - Necessary functionality; some beaches are surveyed at multiple locations and these must be treated as a single report
- *Submitting multiple reports* - if there are multiple unsubmitted reports to be able to submit them all rather than one-by-one.

Grad Student Feedback

- Grad student 9
 - The beaches and status of survey upload is listed before the login. Since the surveys are corresponding to each user, the lists of surveys in completed or in progress state should be visible once the user logs in. The new survey can be started without user login.
 - **This is already planned.**
 - In the design, the data fields are grouped in separate pages. If the user wants to go back and check his data, the user has to navigate through pages. Therefore scrollable page would be helpful.
 - **Our designs are to prevent scrolling because this will be done on mobile devices. The user can also navigate to a specific page through the hamburger menu.**
 - The final review page before submit must have a cancel button. The review page must be editable
 - **This is already planned**
 - Since all the fields are mandatory, user may want to save his data he has already collected before he can submit the survey form. So there has to be a 'save for later' button on each page (if the form has several pages) or on one page, if the form is scrollable.
 - **Data is automatically saved and a toast will notify the user of this**
 - The list of forms and their statuses must also include incomplete forms.
 - **Warnings will be issued on next page button press is already planned**
 - Password management must be included as part of the interface. Other account settings must also be made available.
 - **This app does not manage accounts - they are managed by the Wisconsin DNR with other systems**

- The user's online status must also be displayed along with the username. For example green means online and survey is ready to be uploaded and grey means offline, that is data will be in progress status once submitted.
 - **Offline mode will not be planned**
- Every submitted or saved survey form must have a survey number for ease in recognition
 - **Date and location will be easiest to recognize**
- If the user accidentally deletes the in progress survey. The application should be able to retain the data.
 - **A trash can is already planned**
- If a user gives wrong data and he submits the survey. There is no way to correct it
 - **WisGov filters all submissions**
- If a user forgets his password, he must be still allowed to create and save a survey form locally.
 - **User does not have to login in order to create a survey**
- Password recovery should be implemented
 - **This app does not manage accounts - they are managed by the Wisconsin DNR with other systems**
- Grad student 12
 - After user login, there should be option for change password if user thinks his password has been stolen then this option will help him to reset his password.
 - **This app does not manage accounts - they are managed by the Wisconsin DNR with other systems.**
 - In login view if user can login through username or also can be with email that will be more user friendly if user forgot his username.
 - **This depends on the authentication system in place; at the moment, we are only aware of usernames registered with the Wisconsin DNR being used**
 - There is no FAQ option to help first time users in understanding the app.
 - **Stretch goal, should be intuitive**
 - Comment box can be included before submit option if user want to comment about any conditions or special case during taking the measurement.
 - **Comment boxes are part of the existing form, these will be included**
 - In each data entry page, there should be a button for save and exit to main menu, if user want to keep the current data and want to go to another process.
 - **See above**
 - After pressing submit button there should be popup window to provide password even if the user is logged in this will improve the security.
 - **The surveys still have to be approved by a DNR employee after being submitted so spam can be filtered out that way**
 - There should be search menu in home screen where user can search the old submitted data by beach name/ date. Because after using this app for long period

there will be large number of completed data in app in which if user want to find out old data then without search option it's going to be tedious job.

- **Completed surveys only visible for a set amount of surveys on the home screen - stretch goal is for another screen that allows viewing all past submitted surveys**
- In login view, there should be option for forgot password as user can fail to remember password.
 - **This app does not manage accounts - they are managed by the Wisconsin DNR with other systems**
- There should be limit for inserting wrong password, after that limit the account should go on hold for some time and to validate user some email verification or security question and password reset procedure should present.
 - **This app does not manage accounts - they are managed by the Wisconsin DNR with other systems**
- Grad student 13
 - Since the app is mostly used by beach-goers, the app should be usable in the sun. The contrast should be set accordingly.
 - **This is already planned**
 - If the user forgets his password, he should have the option to reset it. There should be a “Forgot Password” option just in case the user forgets his password and should be allowed to reset it by sending a verification code or a temporary password to his registered email id or phone number..
 - **See above**
 - Each page should be saved automatically when the “next” or “previous” button is clicked.
 - **See above**
 - There is no help/FAQ in the app. If the user has some query, he cannot clarify it since this feature is not available.
 - **See above**
 - I suggest that there should be an introduction or tutorial for using the app in the beginning. This will help the user to understand how the app works and will feel comfortable using it.
 - **See above**
 - All fields in the form are mandatory. If the user does not know the answer to a particular question, he cannot leave it blank because he will not be able to submit it. I would suggest that the fields not be mandatory as the user may not be able to submit his form or he might just fill in an answer just to fill in the blank field. This violates the User Control and Freedom.
 - **See above**
 - There is a high probability that users do not remember/enter their username/email Correctly. This violates “Error prevention” and “Help users recognize, diagnose and recover from errors.”

- **See above**
- In the homepage, the completed surveys list should have a sort according to date feature so that in future, if the user wants to check the surveys he has completed, he does not have to keep scrolling to look for it.
 - **See above**