

**Team 1 - Platypus
Design Change Document
2 / 14 / 2017**

Professor Lafreniere's Feedback

- Changed landing page to just ask for year
 - Yes, we will implement. We will change the landing page to have a dropdown for the year along with a bit of tutorial text instead of the previous landing page that asked whether to explore or submit.
- Submit and explore done on the same map
 - Yes, we will implement. The explore points will all show up, and when you click on a spot on the map without a point there, a point creation dialog will show up.
- Sidebar instead of modal
 - Yes, we will implement. We will use a left-sidebar for both viewing points and submitting points.
- Reorganize the submit form
 - Yes, we will implement. We will ask for the name (optionally) later on, and ask for the more important information first. We will adjust the submission dialog to all fit without needing to scroll.
- Add tags
 - Yes, we will implement. We will have a dropdown with checkboxes next to tags.
- Add map overlays
 - Yes, we will implement. We will have a slider that can be used to select which year to view the maps from. If the user did not select a year and just clicked the "x", the current maps will be shown.
- No point editing capability (too difficult for the API)
 - Yes. We will not implement editing as the API only supports PUT and GET.
- Change the color of the points
 - Yes. We will change the color.

Grad Student Feedback

- Inform the user when a submission cannot be made
 - Yes, we will implement. We will present an error dialog that gives the reason for failure (formatting, network connection, etc)
- Have a progress bar for loading the images
 - Yes, we will implement. This will help with slower connections.

- Explore and share a memory should be in contrasting colors
 - No, we will not implement. Because we are removing the feature of choosing between exploring and sharing, this is not necessary.
- The app should be multi-lingual
 - No, we will not implement. The idea is good, since we will likely have many users who live far from the Keweenaw, but there are many things in the way. We do not have the resources or time available to properly translate the app. Most of our users should be somewhat proficient in English, and if point descriptions are in other languages it will be tough for the scientists to analyze them. Web browsers like Google Chrome have automated translation built in, which will provide a somewhat usable translation for users who absolutely need it.

- User should be able to see and discard a picture before loading it.
 - Preview window for photo(s) to be uploaded with submission.

- Prompt for users trying to exit or trying to meddle with the uploading or a picture.
 - Meddle? Throw dialog when trying to exit without submission. Edits of points are not supported due to API limitations and Don's wishes.

- Confirmation for GPS location from the user should be obtained.
 - Being off a few feet (~<100) shouldn't matter too much in context. Can look into it, bring it up to Don.

- System should be able to remember the name of the user and the details for multiple posts for the same place and same event.
 - We can remember the user's name, but other details is difficult because we can't know if it's the same event or not.

- Color coded regions of the map
 - Maybe, could make it difficult to read. Will bring up to Don and get his thoughts.

- Lucid language for interrupt handling.
 - Errors will be handled intelligently.

- The user should be notified about the loss of network connection. Use checkpointing so that the data is saved until a time remains unharmed in this situation.
 - See first suggestion. May be too difficult to save off data until internet is restored.

- Notification for user entering invalid time or date on can be added to the app.
 - Yes. Just don't allow entering wrongly formatted date.

Pastel's Feedback

- No landing page w/ choosing to explore or submit
 - Yes, we will implement. We will remove the choice to explore or submit. Still, Don wants us to have a landing popup that gives a tutorial on how to use the app and to select which year to show the historical map from, so we will have that instead.
- Filtering options
 - Yes, we will implement. We will use the date that users select to see the map from as an option for filtering -- this will be selected by either a dropdown or a slider. In addition to the search, we plan on also having tag-based filtering using pre-defined tags (selectable by checkboxes on the submission form) specified by the scientists.

Improvements already done:

- Changed landing page
 - Used to be a choice between exploring or submitting
 - Now just asks for the year with a dropdown
 - Submit and explore are done on the same map now
- Reorganized the submit form