



Michigan
Technological
University®

Keeweenaw Time Traveller App

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Introduction:

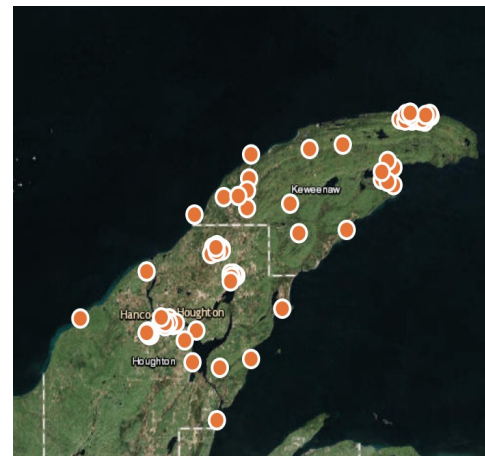
App is used to explore historic maps in various decades.

Upload historic pictures and documents to various relevant locations

Comment on the shared documents and like comments

Post these comments to facebook

Users: Students, Tourists, History enthusiasts




Portage Lake Lift Bridge

Description

The Portage Lake Lift Bridge (also known as the Houghton-Hancock Bridge) connects the cities of Hancock and Houghton, in the US state of Michigan, across Portage Lake, a portion of the waterway which cuts across the Keweenaw Peninsula with a canal linking the final several miles to Lake Superior to the northwest. US Highway 41 (US 41) and M-26 are both routed across the bridge. It is the only land-based link between the north (so-called Copper Island) and south sections of the Keweenaw peninsula.

Images [Click to enlarge](#)




2 Comments [Sort by Oldest](#)

Add a comment...

Colin Brevitz
Summer Intern - Android Developer at Title Source
Oh man Bill, you are totally right! There is a bridge here!
Like · Reply · Apr 11, 2017 2:35pm

Colin Brevitz
Summer Intern - Android Developer at Title Source
Hey Bill, found your bridge. It sucks when



Test Process:

Introduction of the Application

Consent Of the participants

Pre-Test Questions

Explaining the test scenarios to the participants

Observation of the Quantitative and Qualitative Measures while users Perform Tests

Post test questions

Identification of bugs

Environment Setup:

Device: Macbook and computers in the MEESE basement

OS: Macintosh and Windows 8

Browsers: Google Chrome, Mozilla Firefox, Internet Explorer

Observations: Video Recording of User Screen, Notes

Location: MEESE 206

No of Participants: 5

Data Collection:

Pre-test questions:

How often do you use a computer?

How many years have you used a computer?

Do you have a Facebook account?

How often do you use Facebook?

Are you comfortable with making a post on your

Facebook wall for test purposes?

Please indicate your level of interest in testing this application

What is the most important quality for a UI?

Post test questions

- I think that I would like to use this system frequently.
- I enjoy using this application.
- I thought the system was easy to use.
- I found the system unnecessarily complex.
- I think that I would need the support of a technical person to be able to use this system.
- I thought there was too much inconsistency in this system.
- I would imagine that most people would learn to use this system very quickly.

Data Collection:

Qualitative Analysis:

Body language

Facial expressions

Verbal responses

Attention in the application

Responses to post Usability test Questions based on
The System Usability Scale(SUS).

Quantitative Analysis:

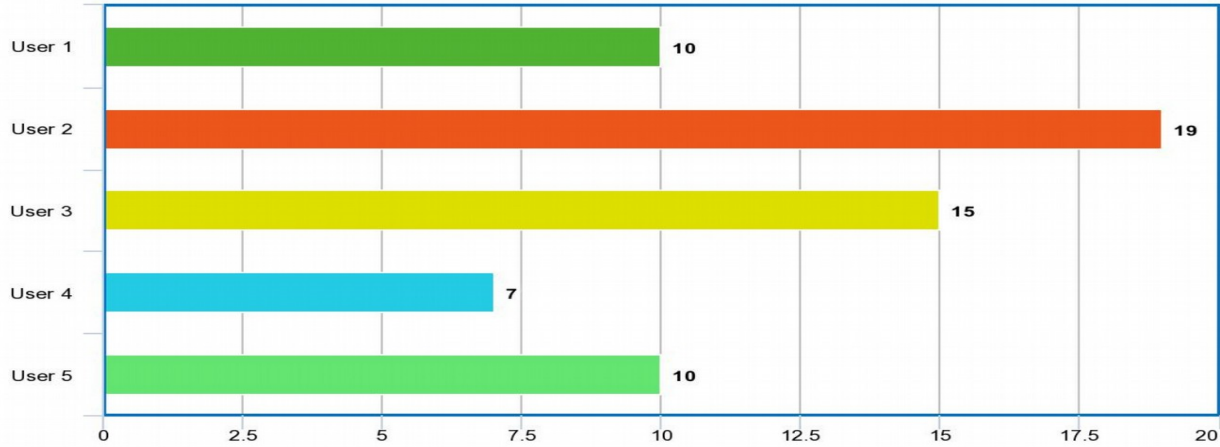
Time Required to complete task

Number of times Assistance is needed

Number of attempts before user successfully
completes the task.

User Demographic:

Years of computer usage



40% of the users were female while 60% were male

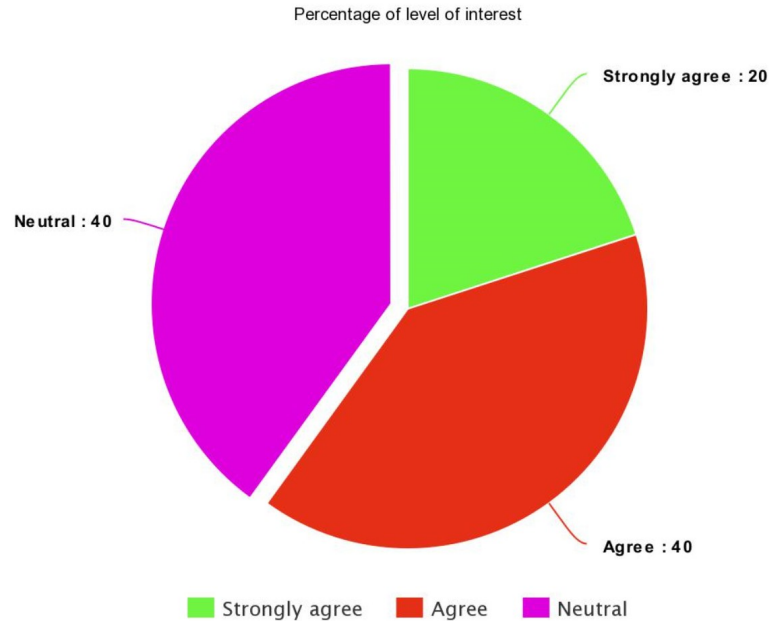
All the users were college students

All users had a facebook account

Users were comfortable using their own accounts for posting comments

Pre Test Results

Level of Interest to test Application



Most important quality for a UI

Ease of use : 2/5

Simplicity: 1/5

Interactivity: 1/5

Scenario and Quantitative Measurements:

Task No.	Task Description	Avg Time	Assistance	Attempts
Task1	Upload the picture to the appropriate location with a description	1.Find point:2.30secs 2.Upload image:90 secs 3.description:1.20 4.Total:4.40	2	3
Task 2	Find a point, comment and post to facebook	1.Find search bar & load the point:40 secs 2.find comment box:12 secs 3.redirect to Facebook:5secs 4.load facebook & login:20 secs 5.Total:1:17	1	2
Task 3	Change the decade of the map	1.load map:45 secs 2.select the decade:5 secs 3.Total:50	0	1
Task 4	Use Mozilla,Chrome & internet explorer browsers to make a point & use emoticons it	Mozilla:~3mins Google Chrome:~3:30	1	2

Test Features:

The application is simple and lucid

The application is interactive

The instructions prompts are helpful to the user.

The Drop down menu is useful to navigate through the decades

The App performs well on all browsers tested

Test Features:

The maps take time to load

The creation of a point using just a click is confusing

The rotation feature of the map is confusing to the user

Bug Report

Bug number	Bug name	Bug location	Bug description	Bug severity
1	Screen freeze	Maps Page	When zoomed screen froze	Low
2	Facebook Login	Comment panel	When commenting facebook there is no action	High

Suggestions:

Make the decade dropdown menu more prominent

Instruct users on making a new point

Include a short interactive tutorial for the app

Show a loading icon while the maps are loading

Users suggested the rotation of the maps in the app was not helpful.