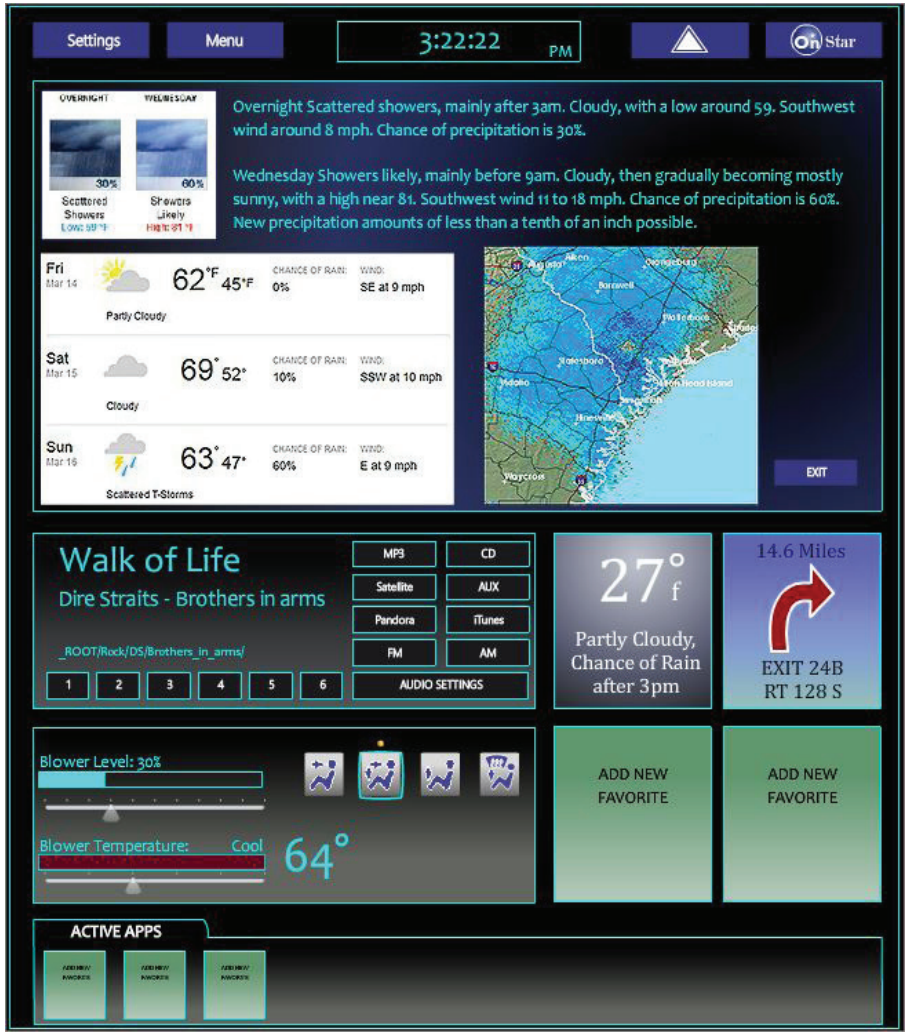
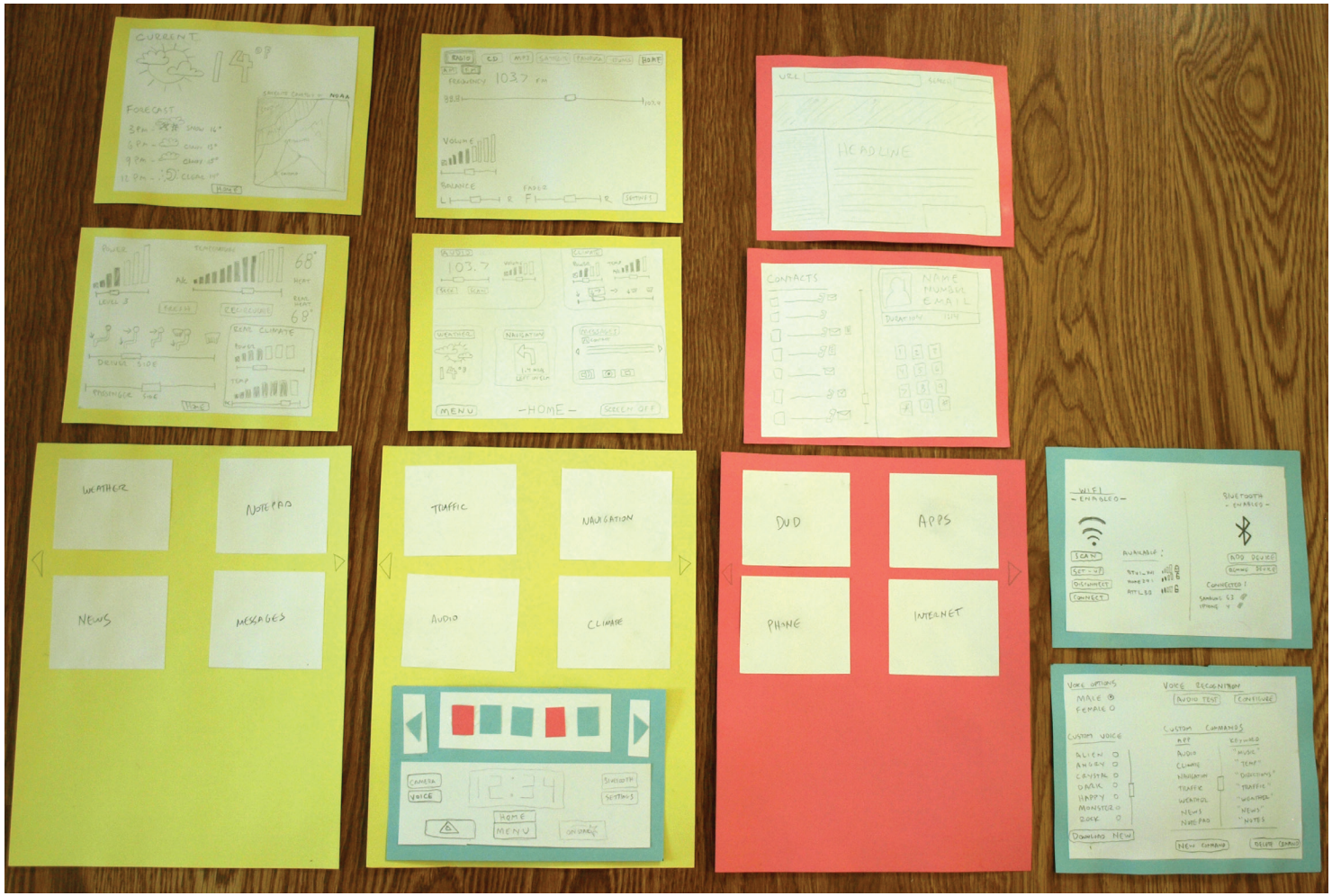


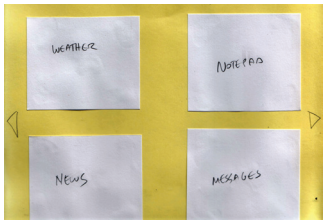
A hands free, voice controlled, vehicle dashboard that handles climate controls, audio control, navigation/weather/traffic and additional app elements for in-car use.

A touch screen supplements the voice interface option, and a “smart” steering wheel allows for basic functions within reach of the driver.

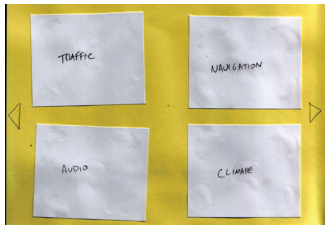


Early paper testing of the VIC prototype revealed some interesting test results on the placement of the different navigation screens and how many screens are available to a user. Younger testers found the interface usable, whereas older test takers found it overwhelming and difficult to use. A redesign was needed for sure.

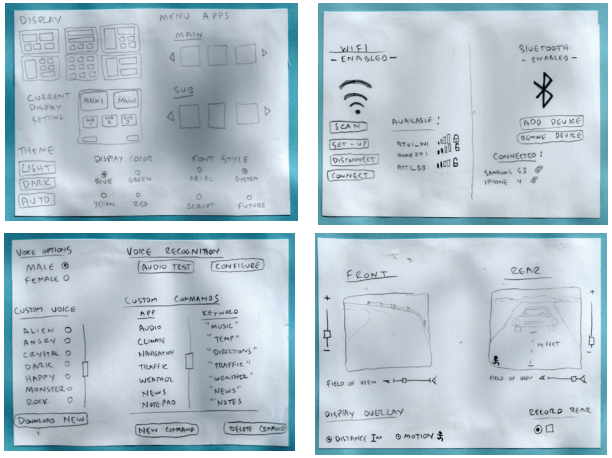
Standard options 1



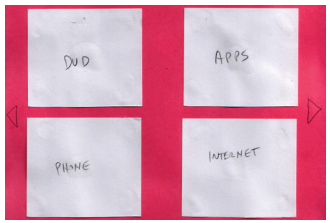
Standard options 2



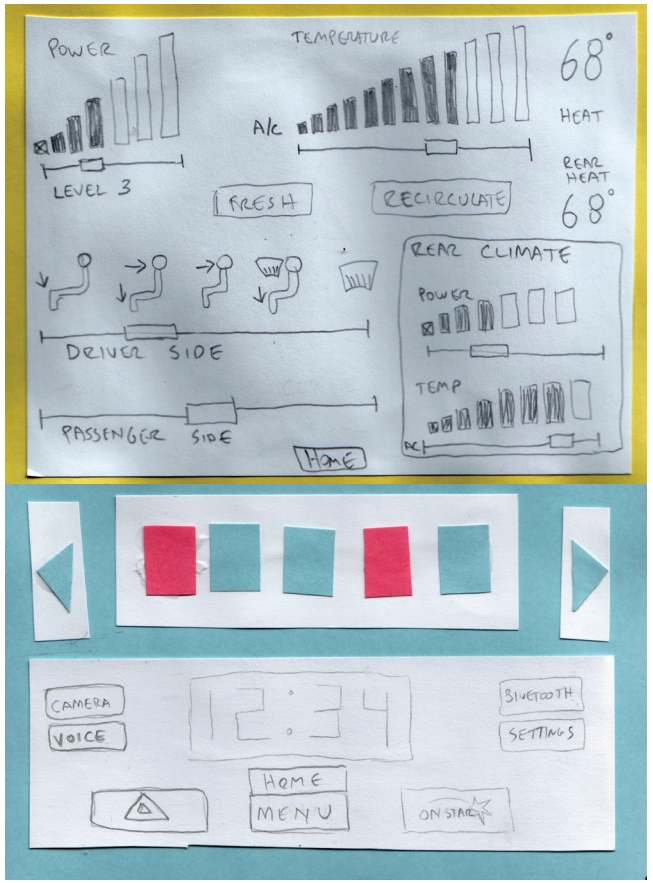
System settings:
Camera, Voice control, Display settings, Bluetooth



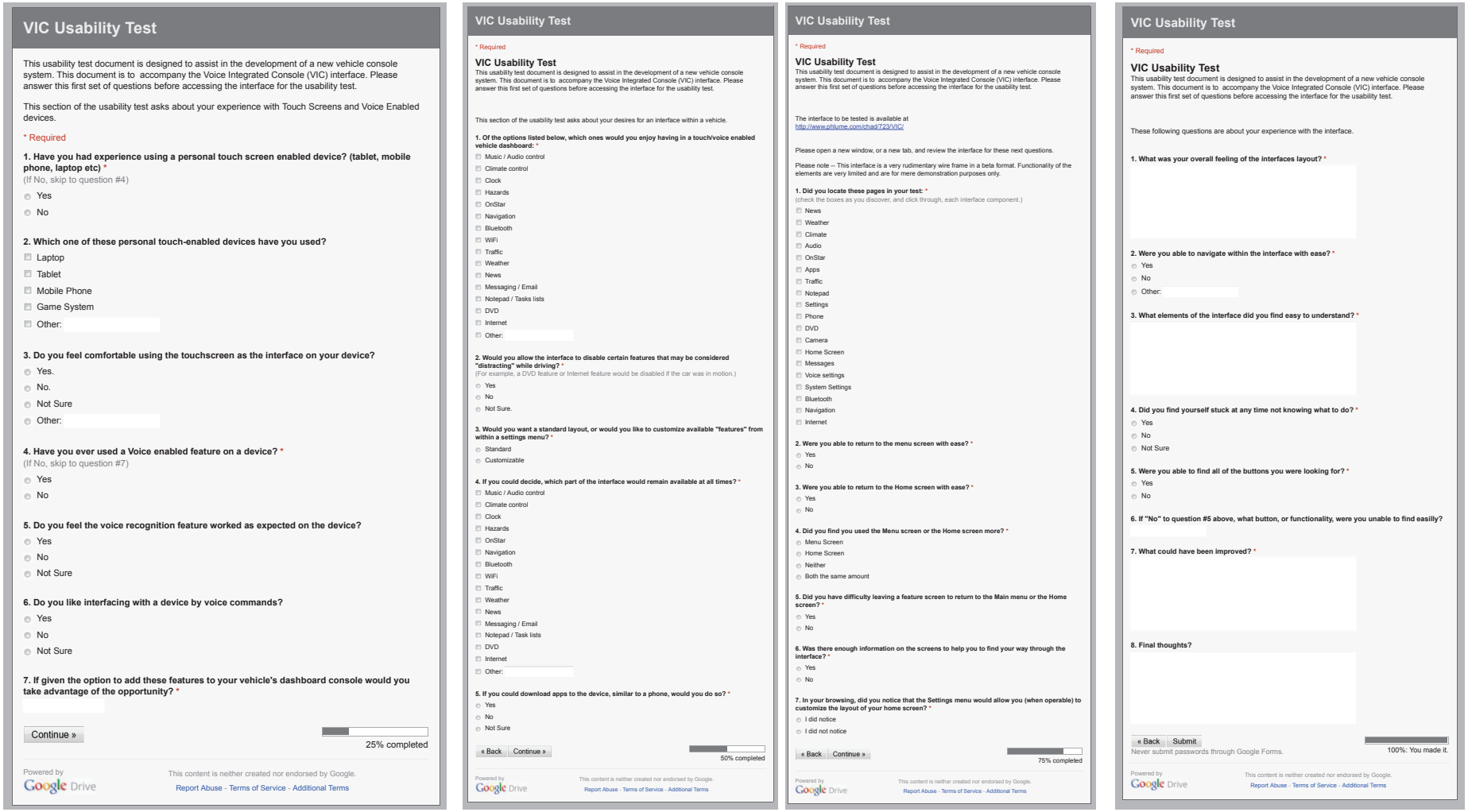
Restricted options 1



Main Screen



With a variety of interface screens available at any given time, the user had a too many options available to them. The clock, settings, and "hazards/OnStar" buttons felt buried at the bottom of the app, while the scrollbar for "active apps" seemed to loose importance once a specific app was loaded or being used.



VIC Usability Test

This usability test document is designed to assist in the development of a new vehicle console system. This document is to accompany the Voice Integrated Console (VIC) interface. Please answer this first set of questions before accessing the interface for the usability test.

This section of the usability test asks about your experience with Touch Screens and Voice Enabled devices.

* Required

1. Have you had experience using a personal touch screen enabled device? (tablet, mobile phone, laptop etc) *
(If No, skip to question #4)
- Yes
- No

2. Which one of these personal touch-enabled devices have you used?
- Laptop
- Tablet
- Mobile Phone
- Game System
- Other:

3. Do you feel comfortable using the touchscreen as the interface on your device?
- Yes.
- No.
- Not Sure
- Other:

4. Have you ever used a Voice enabled feature on a device? *
(If No, skip to question #7)
- Yes
- No

5. Do you feel the voice recognition feature worked as expected on the device?
- Yes
- No
- Not Sure

6. Do you like interfacing with a device by voice commands?
- Yes
- No
- Not Sure

7. If given the option to add these features to your vehicle's dashboard console would you take advantage of the opportunity? *

Continue »

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VIC Usability Test

* Required

VIC Usability Test
This usability test document is designed to assist in the development of a new vehicle console system. This document is to accompany the Voice Integrated Console (VIC) interface. Please answer this first set of questions before accessing the interface for the usability test.

This section of the usability test asks about your desires for an interface within a vehicle.

1. Of the options listed below, which ones would you enjoy having in a touch/voice enabled vehicle dashboard: *
- Music / Audio control
- Climate control
- Clock
- Hazards
- OnStar
- Navigation
- Bluetooth
- WiFi
- Traffic
- Weather
- News
- Messaging / Email
- Notepad / Tasks lists
- DVD
- Internet
- Other:

2. Would you allow the interface to disable certain features that may be considered "distracting" while driving? *
(For example, a DVD feature or Internet feature would be disabled if the car was in motion.)
- Yes
- No
- Not Sure.

3. Would you want a standard layout, or would you like to customize available "features" from within a settings menu? *
- Standard
- Customizable

4. If you could decide, which part of the interface would remain available at all times? *
- Music / Audio control
- Climate control
- Clock
- Hazards
- OnStar
- Navigation
- Bluetooth
- WiFi
- Traffic
- Weather
- News
- Messaging / Email
- Notepad / Task lists
- DVD
- Internet
- Other:

5. If you could download apps to the device, similar to a phone, would you do so? *
- Yes
- No
- Not Sure

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VIC Usability Test

* Required

VIC Usability Test
This usability test document is designed to assist in the development of a new vehicle console system. This document is to accompany the Voice Integrated Console (VIC) interface. Please answer this first set of questions before accessing the interface for the usability test.

The interface to be tested is available at
http://www.phlume.com/chad/723/VIC/

Please open a new window, or a new tab, and review the interface for these next questions.

Please note -- This interface is a very rudimentary wire frame in a beta format. Functionality of the elements are very limited and are for mere demonstration purposes only.

1. Did you locate these pages in your test: *
(check the boxes as you discover, and click through, each interface component.)
- News
- Weather
- Climate
- Audio
- OnStar
- Apps
- Traffic
- Notepad
- Settings
- Phone
- DVD
- Camera
- Home Screen
- Messages
- Voice settings
- System Settings
- Bluetooth
- Navigation
- Internet

2. Were you able to return to the menu screen with ease? *
- Yes
- No

3. Were you able to return to the Home screen with ease? *
- Yes
- No

4. Did you find you used the Menu screen or the Home screen more? *
- Menu Screen
- Home Screen
- Neither
- Both the same amount

5. Did you have difficulty leaving a feature screen to return to the Main menu or the Home screen? *
- Yes
- No

6. Was there enough information on the screens to help you to find your way through the interface? *
- Yes
- No

7. In your browsing, did you notice that the Settings menu would allow you (when operable) to customize the layout of your home screen? *
- I did notice
- I did not notice

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VIC Usability Test

* Required

VIC Usability Test
This usability test document is designed to assist in the development of a new vehicle console system. This document is to accompany the Voice Integrated Console (VIC) interface. Please answer this first set of questions before accessing the interface for the usability test.

These following questions are about your experience with the interface.

1. What was your overall feeling of the interfaces layout? *

2. Were you able to navigate within the interface with ease? *
- Yes
- No
- Other:

3. What elements of the interface did you find easy to understand? *

4. Did you find yourself stuck at any time not knowing what to do? *
- Yes
- No
- Not Sure

5. Were you able to find all of the buttons you were looking for? *
- Yes
- No

6. If "No" to question #5 above, what button, or functionality, were you unable to find easilly?

7. What could have been improved? *

8. Final thoughts?

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100%: You made it.

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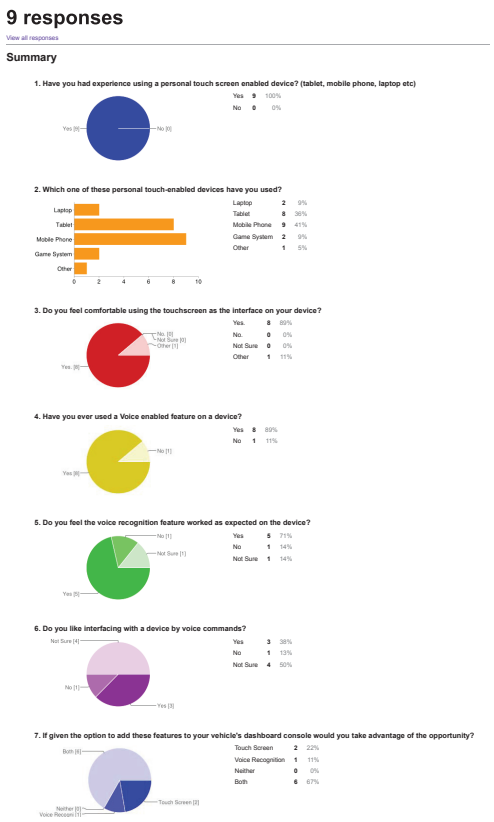
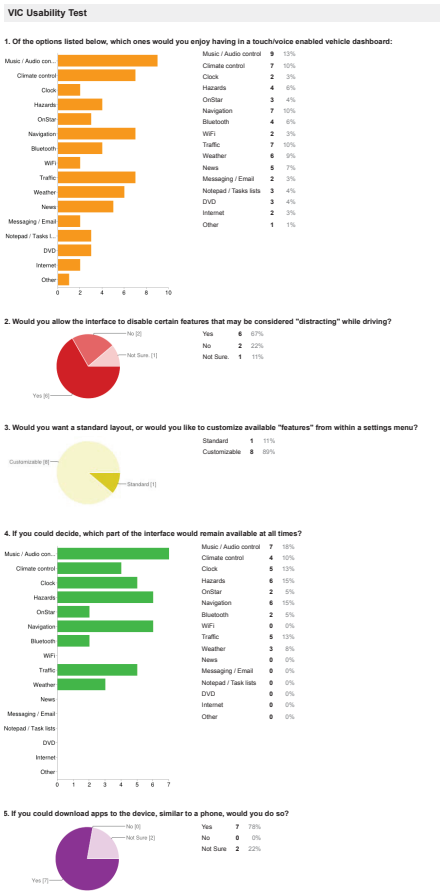
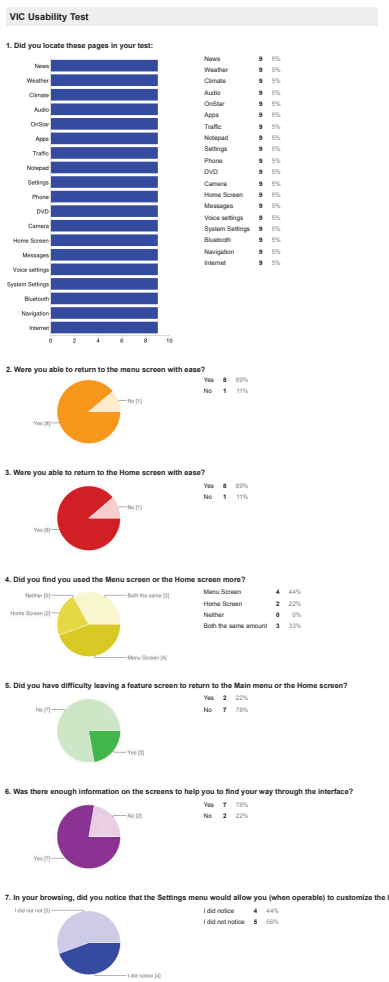
http://www.phlume.com/chad/723/VIC/

Using Google docs I set up a usability test to gauge what was important to users of an interface such as this, what could be removed, what should be added, and what level of priority I should place on some of the apps. being used The prototype site is still up with an active form for review. ***Click link to the left to view the test page.***

VOICE INTEGRATED CONSOLE

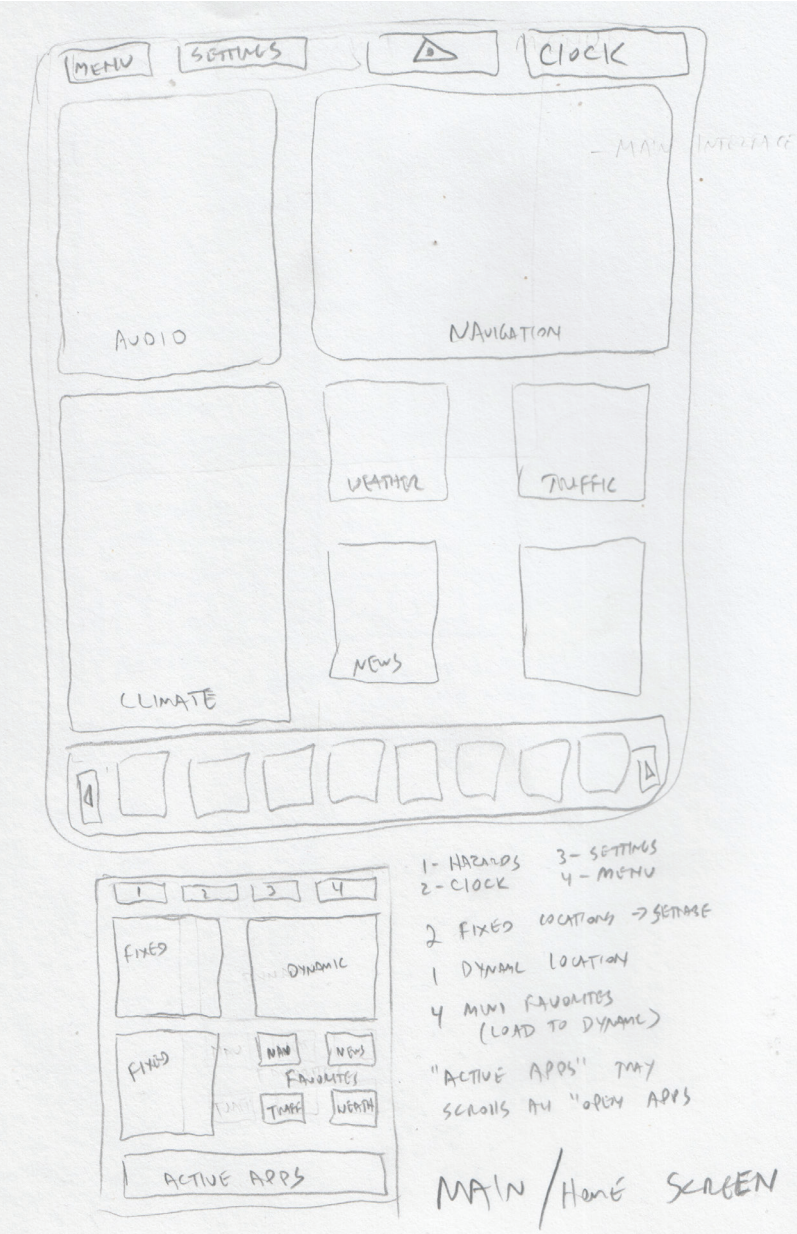


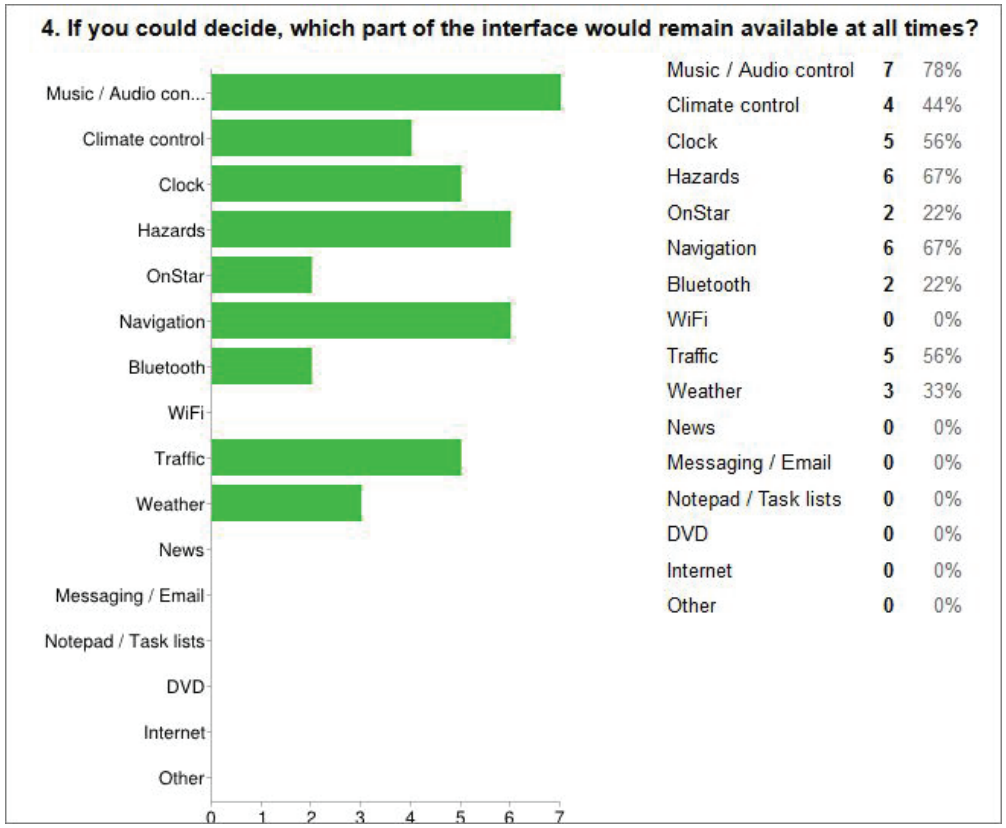




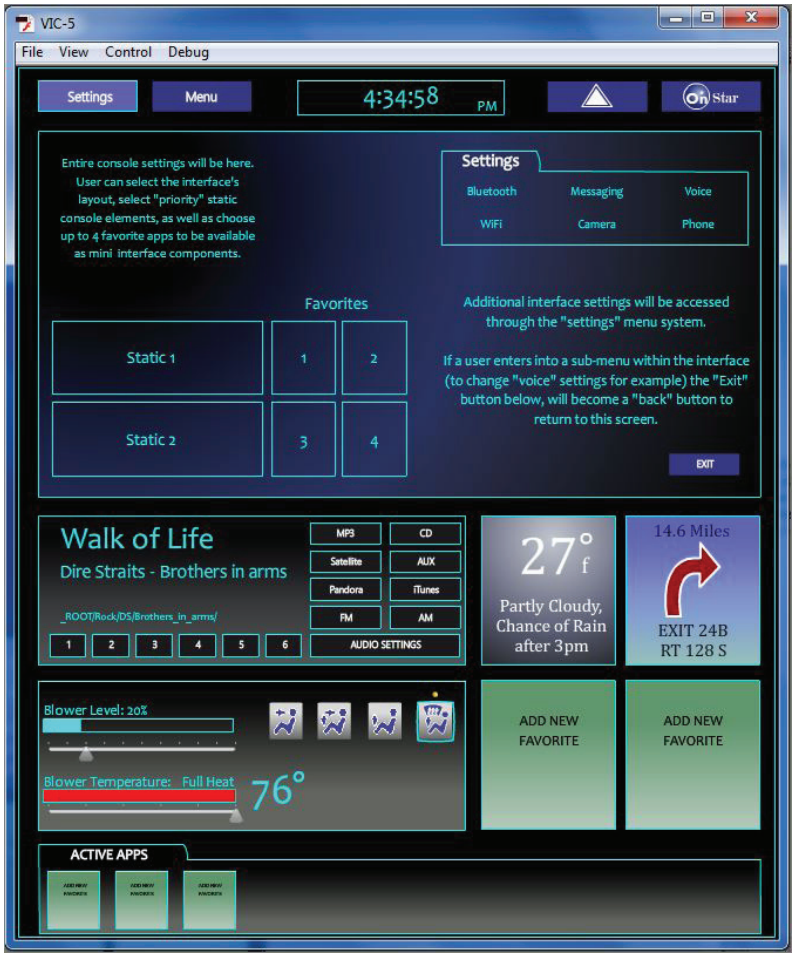
https://docs.google.com/forms/d/1bY0KcCRd-bUoaBt87Ri0AyxVuHFNN7nS6s1hTHihPqX0/viewanalytics

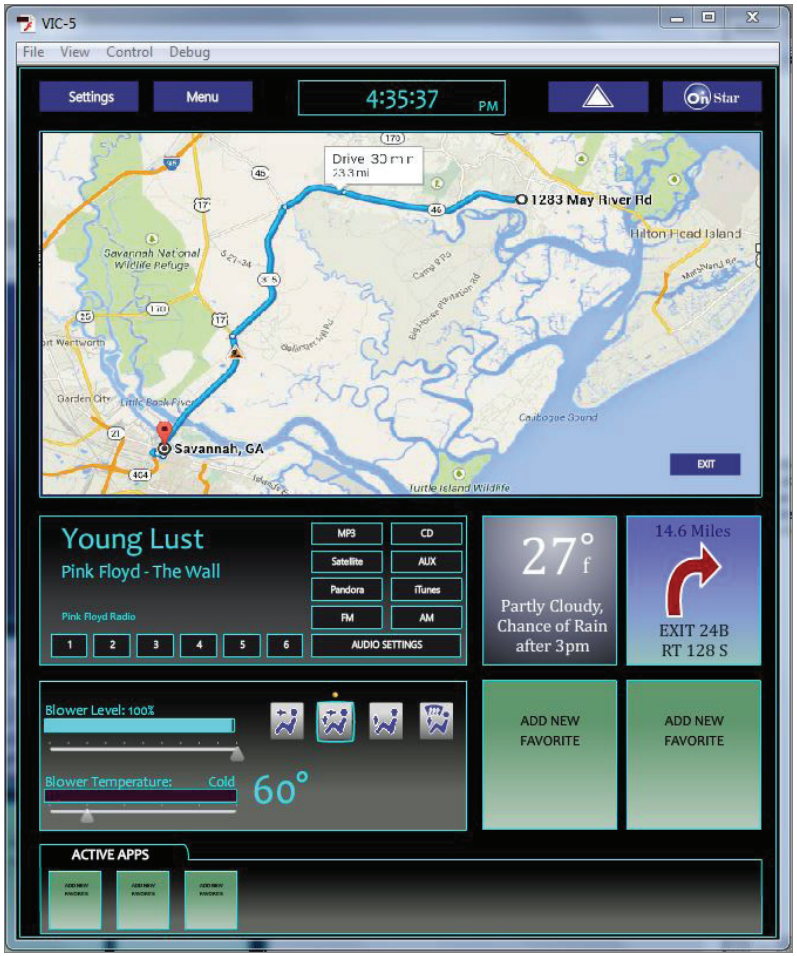
9 different users of varying skill and background used the test site and provided invaluable feedback an ideas for the next phase of development. Questions asked helped define the state of the next phase of the interface, and organize what was important nearly across the board with the test subjects. ***Test result link is active, and available to the left.***





The redesign of the interface started with a quick wire frame mock-up, and the swiftly moved into flash for refinement and interactivity. A resundin level of input from the testing indicated that audio, climate, traffic and navigation were the primary focal points of this interface, where the clock, messaging and wifi were not a primary focus.





Once within flash I utilized AS3 to navigate from location to location within the interface, dynamically set the radio stations as well as alter the climate control settings. In addition, as an added touch, I use dthe scripting to load the current date and time to the interface.