

Hertz Hackathon

NeverLost® 6 Interface

Attcarhomehackathon @ Las Vegas, NV
September, 6-8 2014

Navigation Solutions
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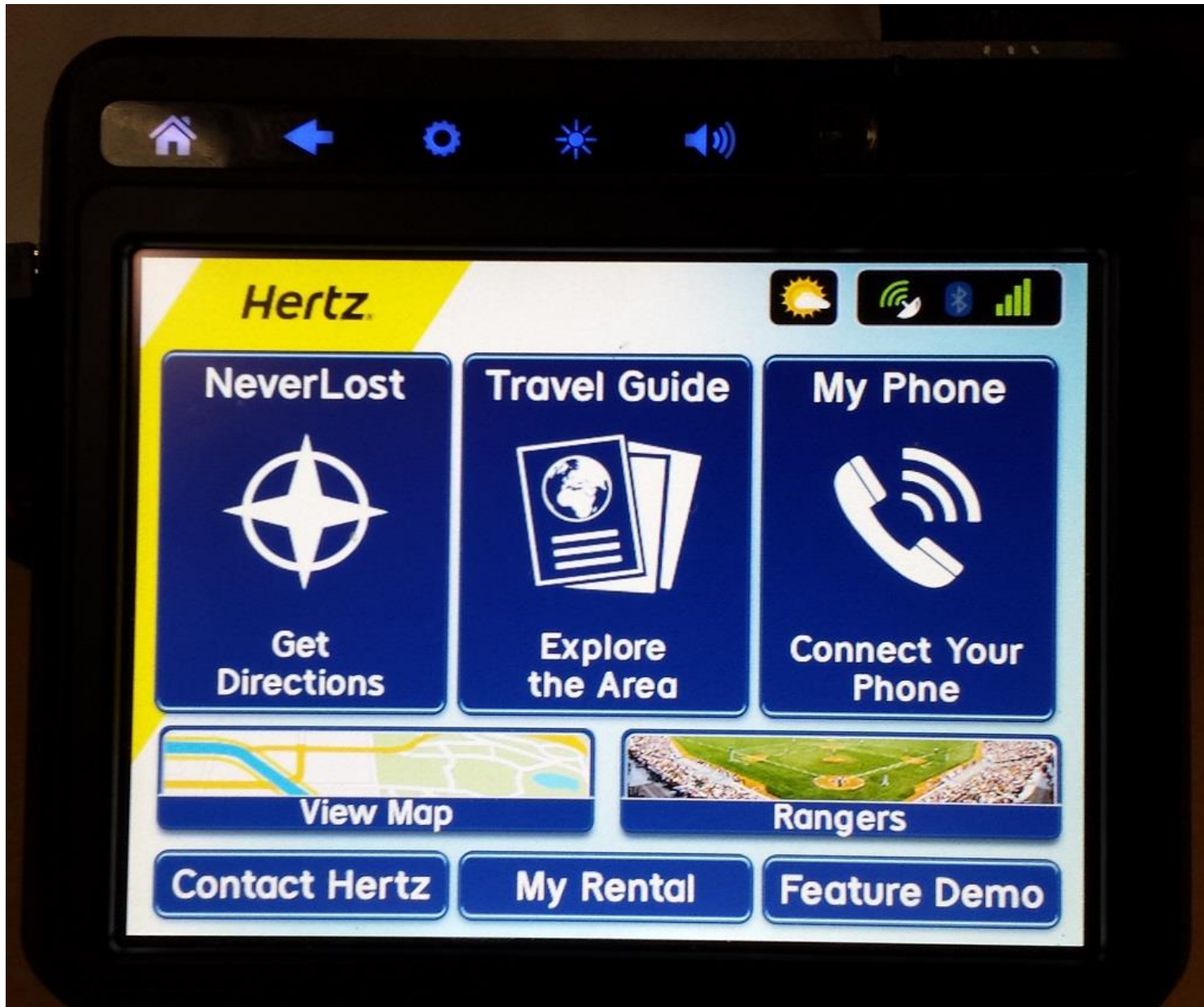
Hertz

Overview

- The NeverLost® 6 (NL6) tablet displays a web page when one of two UI buttons are pressed.
- When the **Contact Hertz** button is pressed, a web page from the Zibox is displayed which gives phone numbers for Customer Care centers. When the user selects one of these numbers, the Zibox dials the number and allows conversation between a user and customer care. This phone connection happens via the Zibox, so it will not happen during the hackathon, because your laptop is taking the place of the Zibox (unless you can make it happen on your laptop).

See the next page for a picture of tablet home

Tablet Home – with My Rental and Contact Hertz buttons



Overview continued

- When the ***My Rental*** button is pressed, a web page is displayed which gives information about the rental: rental number; gas card status et. Al and allows the user to extend the rental from a half hour to many days. You can make up such information, and/or get data from the Zibox wireless interface (assuming you have a wireless adapter on your laptop).
- These web pages normally come from the Zibox, however the setup for the hackathon allows the NL6 to talk to your laptop or other device, from which you can serve a new web page of your design. Making your web page match the look and feel of tablet home is a good thing, but not necessary.

Setup

- Laptop setup
 - OS must be capable of acting as a host for a gadget Ethernet-over-USB connection (Supported systems are linux, Mac and Windows).
 - The interface used for this connection must have the static IP 192.168.42.1
 - The laptop must contain everything you need to serve up the HTML you design in response to one or both of the NL6 buttons.
 - The laptop must be running the NL6 Interface app (see next)
- NL6 Interface application
 - This is a small GUI dialog which allows you to set the URL to be used for each of Contact Hertz and/or My Rental buttons on the NL6 tablet.
 - Clicking “Apply” after entering these URLs will tell the NL6 to call them when the buttons are pressed.
 - After applying the URL(s), you can press the corresponding button on the NL6, and your web page should appear on the NL6 screen.

NL6 Interface

- A python application will be available at the event. This is used as an interface to the NL6. It takes two parameters:
 - myUrl <url to be called when the MyRental button is pressed>
 - chUrl <url to be called with the ContactHertz buttons is pressed>
- Set up the Ethernet over USB connection (system dependent, but see following slides)
- Install the required python modules (see following slides)
- run `wsServer.py mrUrl <url> chUrl <url>` the output will keep you appraised of the messaging.

Adding required python modules (Mac, Windows)

- In your browser go to pypi.python.org/pypi/pip
- Download the source distribution
- Start a terminal window
- cd to the Downloads directory
- Unzip the source distribution
- cd to the resulting directory
- Run 'python setup.py install'
- Once this has completed successfully:
 - Run pip zope.interface
 - Run pip twisted
 - Run pip autobahn
- Setup a usb gadget adapter in System Tools->Network
- Copy wsServer.py from the provided USB drive
- Run 'python wsServer.py' to start the server

Adding required python modules (Linux)

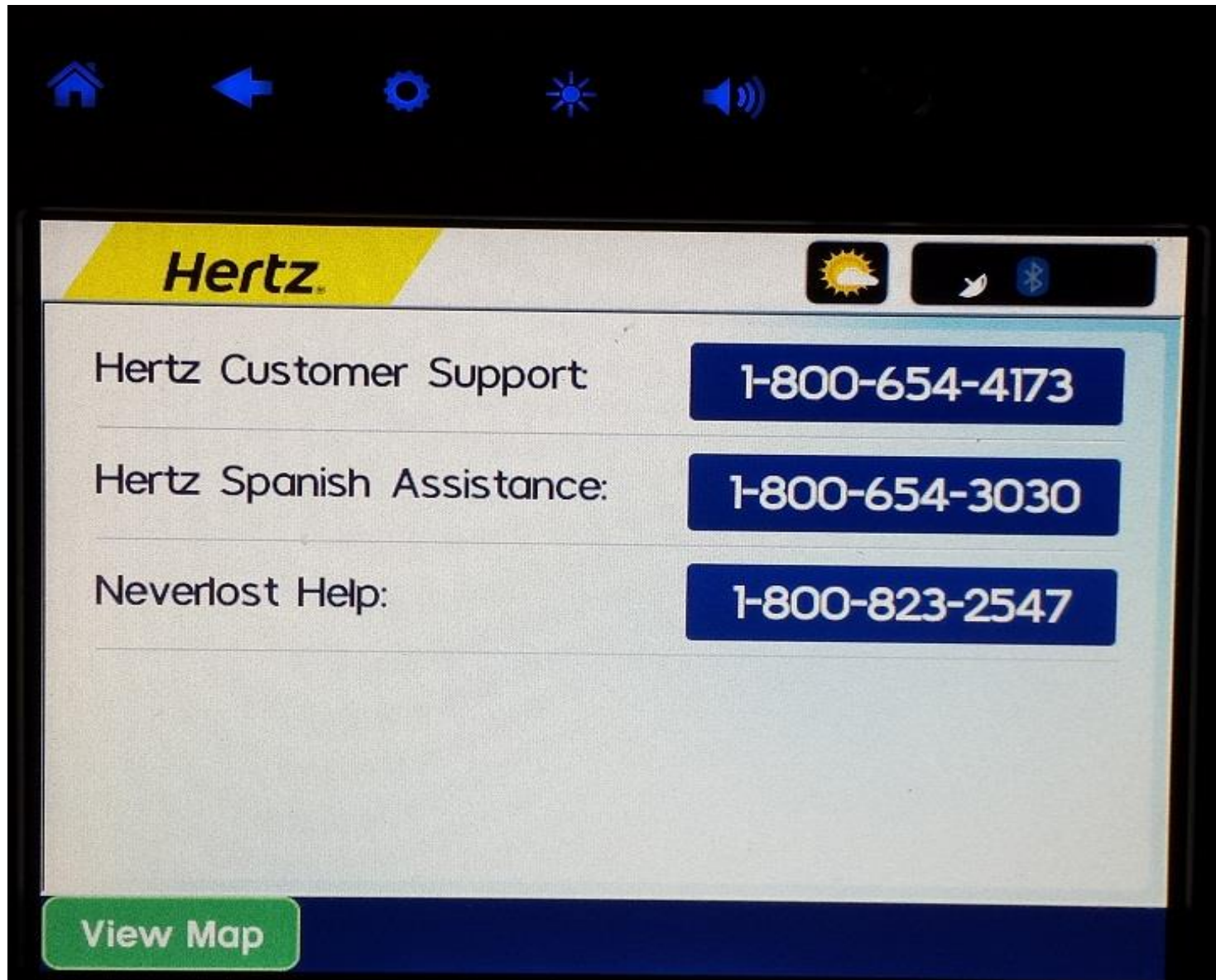
- The same methods described in the last slide may also be used in linux
- Alternatively, you can use your package manager to download
 - zope.interface
 - twisted
 - autobahn
- Use your network manager system software to setup the Ethernet over USB connection.
- Or if you're a little more old-school, add the following to the `/etc/network/interfaces` file (you probably will not need anything more than the first five lines):

```
auto usb0
iface usb0 inet static
    address 192.168.42.2
    network 192.168.42.0
    netmask 255.255.255.0
    broadcast 192.168.42.255
    pre-up modprobe g_ether
    up ip address add 192.168.42.2 brd + dev usb0
```

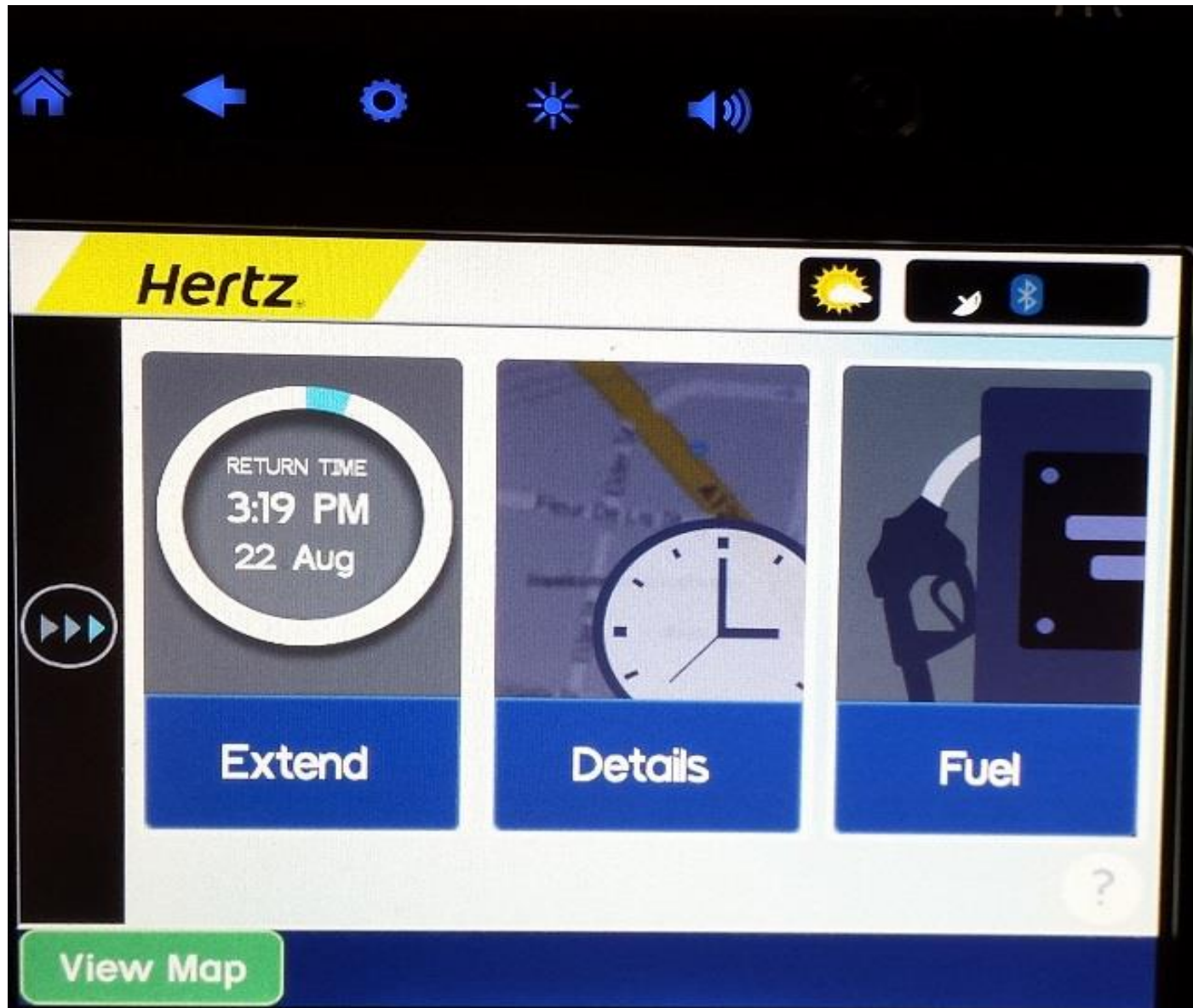
What you have to work with

- You may use any software on your laptop, so bring whatever you think you'll need.
- You may connect with the Zibox over the wireless interface. Once connected with the Zibox you can use the API described in the Eileo "HertzHackathon_EileoAPI-2.pdf" document. On the same web page you got this from.
- The Eileo API allows you to obtain a lot of information about the current state of the system. You can work this into your web pages however you like

Current Contact Hertz display



Current My Rental display



END

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