

WB v2.0 spec

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General

A multitouch-enabled HTML5/JS app in full screen (Windows 8 Metro; but don't have to start with that). In terms of look it kind of looks like Pinterest or TheFind.com's Glimpse (<http://glimpse-ie.thefind.com/glimpse>); where there are columns of 'tiles' and a user can scroll through them, pick one, and expand and have a little interaction with. The content is loaded from a JSON feed.

This application is a full HD (1920x1080) app.

Feed

```
{
  'icon_all' : 'icon-all.png',
  'icon_all_small' : 'icon-all-selected.png',
  'categories' : {
    'events' : {
      'icon' : 'icon-events.png',
      'icon_small' : 'icon-events-selected.png',
    }
    'forsale' : {
      'icon' : 'icon-forsale.png',
      'icon_small' : 'icon-forsale-selected.png',
    },
    'services' : {
      'icon' : 'icon-services.png',
      'icon_small' : 'icon-services-selected.png'
    },
    'nonprofit' : {
      'icon' : 'icon-nonprofit.png',

```

```

        'icon_small' : 'icon-nonprofit-selected.png',
    },
    },
    'latest' : '2012-09-28',
    'earliest' : '2012-01-01',
    'tiles' : [
        {
            'id' : '230123431618914',
            'category' : 'forsale',
            'title' : 'Specialized Epic MTB - 2010',
            'subtitle' : '$2100',
            'location' : 'San Jose, CA',
            'distance' : '30 miles',
            'posted' : '2012-09-01',
            'text' : '2012 LARGE 19" -Epic bike for sale. It is in Mint condition and
blablabla loren ipsum',
            'image1' : 'bike-img1.png',
            'image2' : 'bike-img2.png',
            'fullscreen' : 'xyz.png',
            'details' : {
                'Contact' : {
                    'text' : 'Lance Armstrong 650 555 1212',
                    'qr' : 'qrcontact.png'
                },
                'Location' : {
                    'text' : 'Come view it on Oct.22',
                    'qr' : 'qrcal.png'
                }
            }
        },
        ....
    ]
}

```

Main screen

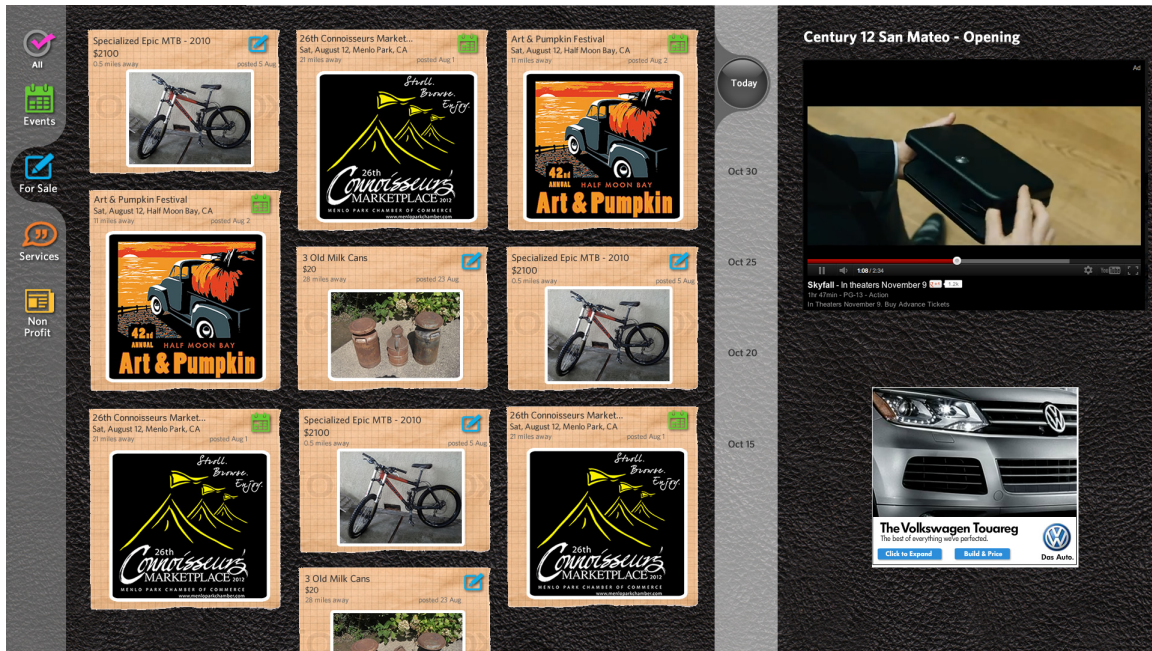


Figure 1. Main screen (file wb2-screen1.jpg)

We will consider the screen to be divided into 4 sections horizontally:

- Category menu
- Main section
- Timeline scrollbar
- Premium section

Main section

Most of the screen (“main section”) is taken up by a 3 columns of tiles each having fixed width but stretchable height, with info loaded from the above feed. The feed is parameterized with *dateFrom* and *dateTo* parameters, because it can be big, so the entire feed is never requested to be loaded. It would be loaded like this, say:

- */feed* - loads default window (with *dateTo* being today, and *dateFrom* a month ago)
- */feed?dateFrom=2012-09-11&dateTo=2012-09-22* - loads the appropriate dates.

For the purposes of this project no server side code implementing the feed is needed, a static one is fine, as long as the parameters are passed when needed

Each tile contains:

- Title (‘title’ entry of the tile)
- Subtitle (‘subtitle’ entry of the tile)

- Category icon (Event/For sale/services/non-profit). The icon is taken from 'categories' field of the feed, corresponding to the value of 'category' field of the tile.
- Distance ('distance' entry of the tile)
- Date posted ('posted' entry of the tile)
- Image ('img1' entry of the tile)

Because the tiles are fixed-width but may have varying height, we shall for now assume:

The image from img1 will have max dimensions of 360px X 360px. If it exceeds these dimensions, it is proportionally scaled down to the point when it can fit into those dimensions. If it is smaller than these dimensions, it is centered into a tile with width of 360px and height of the actual height of the image plus some padding.

The sorting is latest item first, in the top left tile, left to right.

Tap or zoom on a tile takes you to Detail screen below.

The feed is polled every so often (say, 2 seconds), with newer tiles appearing in the top left hand corner and things shifting accordingly.

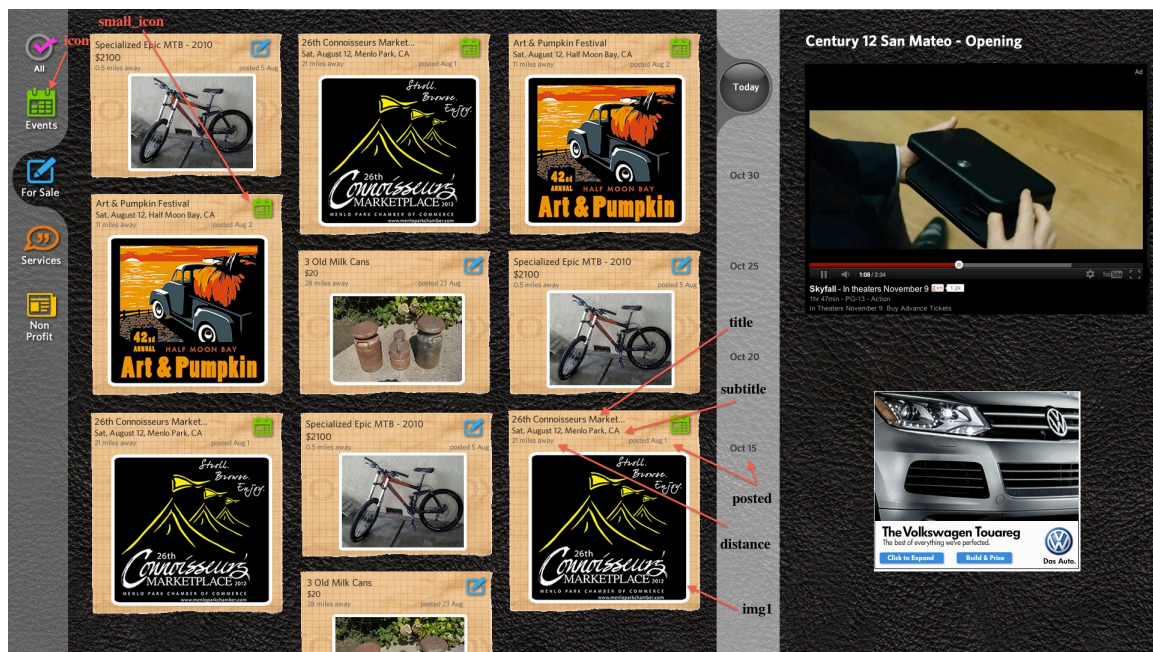


Figure 2. Main screen annotated

Category menu

The category icons are shown in the left menu. A tap on any icon “selects” it (visually it’s shown on the mockup), and shows only tiles that have their category matching the selected icon. A second tap on that icon, or tap on *All* goes back to showing all. The

category icons are taken from ‘*categories*’ entry of the feed (their URLs are in ‘icon’ field). We shall assume that the URLs are to images with transparent background. The icon for ‘All’ is taken from ‘icon_all’ entry of the feed’.

Timeline scrollbar

To the right of the “main section” is a timeline scrollbar. Its top and bottom are determined from the feed (‘earliest’ and ‘latest’ fields). See below for scrolling notes.

Scrolling note

There are two distinct areas of scrolling on the screen – the “main section”, and the timeline scrollbar.

On the timeline, an up-down swipe/pan along the timeline changes the timeline and the tiles displayed. (After a period of inactivity, 15 seconds, the timeline reverts back to the latest). A tap into a place on the scrollbar takes one directly to the time corresponding to that location on the scrollbar.

On the rest of the screen, an up-down pan scrolls the feed (all columns at the same time; that is, it does the same Pinterest does) sequentially, with the scrollbar ‘notch’ indicating the time moving correspondingly. Up-down swipe scrolls with inertia, of course, and tap stops the swipe.

Thus, the scroll via the timeline scrollbar is of a higher pace (lower granularity) than the scroll on the main part of the screen.

Left-right pan or swipe has no effect on this screen.

Premium section

We shall ignore this for now. As long as it has two slots into which an image can be embedded more or less as on the mockup screen, that satisfies the current stage’s requirement.

Detail screen

Here we only describe the main section as it changed from the one above. Other elements are the same.

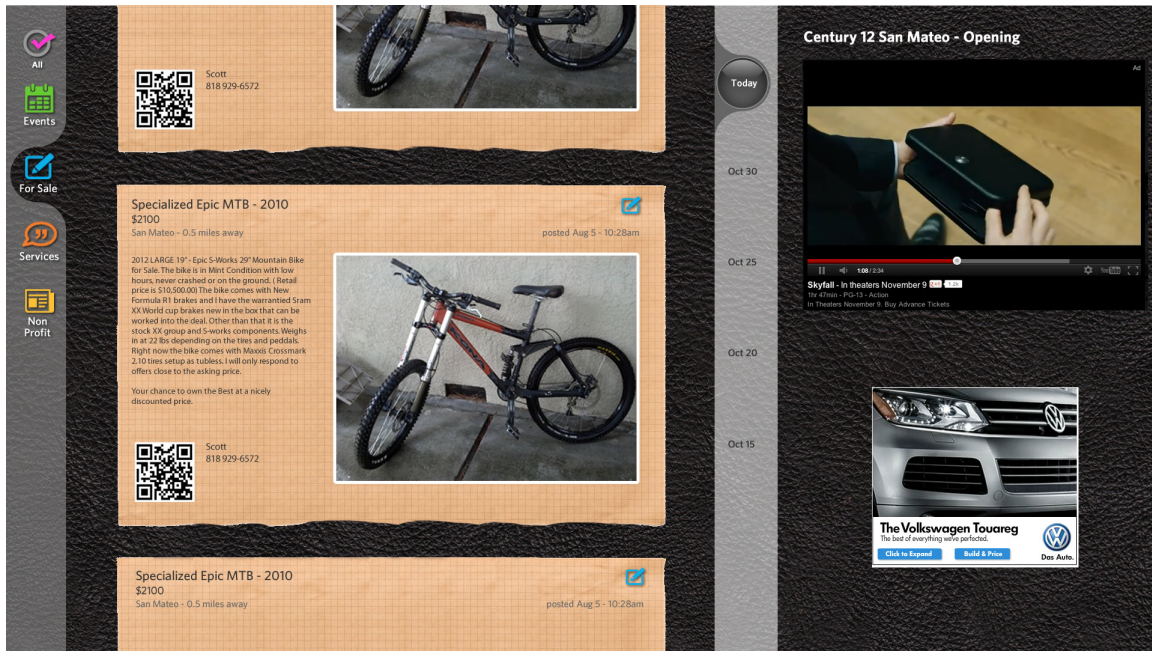


Figure 3. Detail screen

Main section

This looks like a 'film roll' of sorts where the tiles are from the same category as the tile tapped/zoomed in main screen to get here (in the center, of course, is the one that was tapped/zoomed), and the tile's contents are, from the feed:

- Title, subtitle, and date posted as on main screen
- Distance, but now with location ('distance' and 'location' entries)
- Image from 'img2' entry
- Text (from 'text' entry)
- A set of pairs, from the contents of 'details' entry:
 - o QR code image ('qr')
 - o corresponding text ('text'),
 only one of which is displayed at a time. Left-right or up-down pan or swipe on the QR code or corresponding text (in the lower left corner, see attached image) rotates to the next pair, and cycles when reaches the end. Thus, it could cycle between QR codes and corresponding text for contact, calendar, etc.

Up-down pan or swipe elsewhere within the main section would just scroll through tiles of the same category, without or with inertia as needed.

A pinch on the main section in this screen (anywhere) returns the user to Main screen.

A zoom on the selected tile in the film strip results in the full screen taken up by the image taken from the 'fullscreen' entry of that tile (**but if and only if such an entry exists in the feed. If the entry does not exist, zoom is not responding**). In case of the

fullscreen display, a pinch there returns the user back to the detail screen (the one we are discussing now).

The top and bottom of this screen is similarly taken by categories and timeline respectively, except that:

- The change of the category icon selected in Category menu results in the detail screen display for that category, with the selected item (the one in the center) being based on the item closest in the new category by time posted. In other words, let's say on the main screen we scrolled for a bit, and then zoomed into a 'forsale' item posted on September 23, 2012 at 3:45pm. Then on the detail screen we selected 'events'. The film strip for the 'events' category that will be displayed here will center on the tile whose 'posted' date is closest to September 23, 2012 at 3:45pm.